

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	28068
Compliance ID	787238778
Compliance Number(For Tracking)	EC/M/COMPLIANCE/787238778/2026
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	18-06-2026
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai

Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.

Date: 10.06.2026

To:

The Deputy Director General of Forest (C)
Integrated Regional Office,
Ministry of Environment, Forest and Climate Change,
Shastri Bhavan, Nungambakkam,
Chennai-600034.

Subject: Submission of Environmental Clearance (EC) compliance report for the monitoring period of October 2025 to March 2026 for the project **DLF IT Part by DLF Info Park Developers (Chennai) Limited** at S.F.No.1/5 &1/9 of Block 7, Thiruvanmiyur Village, S.F.No:300/2B,300/2C,301/3 , Kottivakkam Village, Chennai District-

Reference: Environmental Clearance granted vide file no SEIAA-TN/F.6645/EC/8(b)/689/2020
Dated: 22.01.2020

Dear Sir,

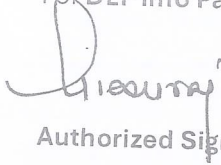
With reference to the above please find enclosed herewith the Half Yearly Compliance report of the conditions stipulated in Environment Clearance (Monitoring Period October 2025 to March 2026) along with applicable annexures.

Kindly acknowledge the same.

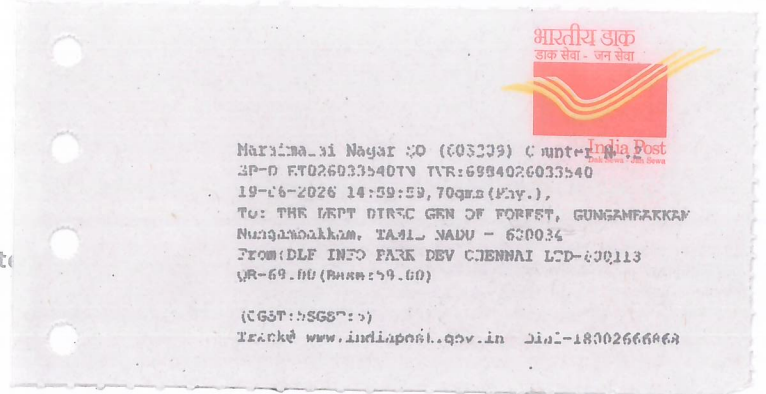
Thanking you,

Your Faithfully,

For **DLF Info Park Developers (Chennai) Limited**



Authorized Signatory



DLF Info Park Developers (Chennai) Limited

11th Floor, Gateway Tower,
DLF City, Phase-III, Gurugram- 122 002
Haryana, India
Tel.: (+91-124) 456 8900



Date:10.06.2026

To:

The Member Secretary,
State Level Environment Impact Assessment Authority,
4D,Panagal Maligai, No:1,Jeenu Road,
Saidapet,Chennai-600015.

Subject: Submission of Environmental Clearance (EC) compliance report for the monitoring period of October 2025 to March 2026 for the project **DLF IT Part by DLF Info Park Developers (Chennai) Limited** at S.F.No.1/5 &1/9 of Bock 7, Thiruvanmiyur Village,S.F.No:300/2B,300/2C,301/3 , Kottivakkam Village, Chennai District-

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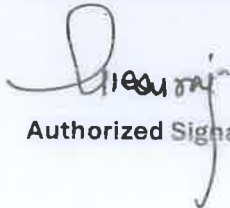
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For DLF Info Park Developers (Chennai) Limited


Authorized Signatory



Regd. Office: Old No. 828 & 828A, New No. 268 & 268A, Sri Ranga, Poonamallee, High Road,
Kilpauk, Chennai -600010, India
CIN: U45200TN2008PLC067001; E-mail: office-business@dlf.in

DLF Info Park Developers (Chennai) Limited

11th Floor, Gateway Tower,
DLF City, Phase-III, Gurugram- 122 002
Haryana, India
Tel. (+91-124) 456 8900



Date:10.06.2026

To:

The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
1st Floor, No.14, 2nd Main Road,
Jagannathapuram, Rajalaxmi Nagar,
Velachery, Chennai - 600 042

Subject: Submission of Environmental Clearance (EC) compliance report for the monitoring period of October 2025 to March 2026 for the project **DLF IT Part by DLF Info Park Developers (Chennai) Limited** at S.F.No.1/5 & 1/9 of Block 7, Thiruvanmiyur Village, S.F.No:300/2B,300/2C,301/3 , Kottivakkam Village, Chennai District-

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11th Floor, Gateway Tower,
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Tel. : (+91-124) 456 8900



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To;

The Deputy Director General of Forest (C)
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Kindly acknowledge the same.

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Your Faithfully,

For DLF Info Park Developers (Chennai) Limited


Authorized Signatory



**HALF YEARLY ENVIRONMENTAL CLEARANCE
COMPLIANCE REPORT**

**For the period
Jun 2026**

**For
Proposed construction of IT Park**

**At
Tiruvanmiyur village, Mylapore taluk
Kottivakkam village, Tambaram taluk,
Chennai District,
State- Tamil Nadu**

***Submitted by
M/S. DLF Info Park Developers (Chennai) Limited
Poonamalle High Road, Kilpauk,
Chennai-600010***

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1. Introduction

The project site of m/s. DLF Info Park Developers (Chennai) Limited., Proposed construction of IT park in S.F NO: 1/5& 1/9 of Block 7, Thiruvanmiyur village, S.F No: 300/2B, 300/2C, 301/3, Kottivakkam village, Chennai District

2. Project Component

The proposed Construction of IT park In Chennai's IT Corridor at Thiruvanmiyur village and Kottivakkam village, Chennai District. The total area of the plot is about 107792 Sqm. The total built -up area is 8,35,650 sqm. It involves construction of "DLF IT Park" With 8 Blocks each of G+23 Floors with common basement in three levels

3. Project Status

Construction of one block with basement + stilt floor to 3rd floor (parking) 4th to 18th floor with built up area of 249,180.85 SqM is completed and obtained Consent to operate (Phase I) from TNPCB vide consent order no. 2404257113220 and 2401257113220 for this partial construction.

Additionally, Construction of Block-2-GF+2 floors utility building and Block -3- BF (Parking) Stilt / Ground Floor+ 3 Floors(parking) +4th floor to 17th Floor with built up Area 1,12,744.48 m2 have been completed and Consent to Operate obtained from TNPCB for built up area of 361,925.33 Sqm and Consent to operate (Phase II) from TNPCB vide consent order no. 2504269389011 and 2504169389011 for this partial construction. Combined 1Basement floor for Block-1, 2 & 3,

- a: Block-1: BF (Parking)+ Stilt/Ground Floor (Canteen/Shops/Parking)+ 3 floors (Parking) +4th floor 18 Floors: + 19th Floor (Solar Voltaic Panel) -IT Building, and annexed with Multilevel Two-Wheeler Parking (4 levels)
- b: Block-2: GF +2 floors Utility building.
- c. Block-3: BF (Parking) +Stilt/Ground floor Canteen/Shops/parking) + 3 floors (Parking) + 4th floor to 17 floors have been completed and Consent to Operate obtained from TNPCB for built up area of 361925.33 Sqm The remaining building of this project is under construction.

The consent orders enclosed in Annexure 1.

4. Environment Clearance & Compliance

For The proposed construction of IT Park by M/S DLF Info Park Developers (Chennai) Limited, they obtained Environmental Clearance vide SEIAA- TN/F.6645/EC/8(b)/689/2020 dated: 22.01. 2020.The compliance statement for the environmental clearance is enclosed

5. Environmental Monitoring

Environmental monitoring id regularly carried out at the site by NABL accredited lab to ensure that the pollutants do not exceed the prescribed limits.

a. Ambient Air Quality Monitoring

During Construction phase, emission is likely to occur from the site doe to various construction activities such as soil excavation, movement of vehicles, operation of DG set etc., the ambient air quality in terms of particulates and gaseous pollutants periodically and the test reports of ambient is enclosed as Annexure-2

The image shows a handwritten signature in black ink over a circular blue stamp. The stamp contains the text "DLF Info Park Developers (Chennai) Limited." around the perimeter and "DLF Info Park Developers (Chennai) Limited." in the center.

b. Ambient Noise Level Monitoring

During construction phase, there will be generation of noise due to activities like excavation, construction and movement of vehicles/ machineries. Hence noise level is monitored and the test report of the same is enclosed as Annexure-2.

c. Water Sampling & Analysis

Analysis of drinking water was carried out and the test report of analysis enclosed as Annexure 2.

6. Compliance Report for Environmental Clearance

EC Letter No: SEIAA-TN/F.6645/EC/8(b)/689/2020 dated: 22.01.2020

Name of the Project: Proposed DLF IT Park

Project Proponent & Address:

DLF Info Park Developers (Chennai) Limited
S.F. No: 1/5 & 1/9 of Block 7
Thiruvanmiyur Village, S.F. No: 300/28, 300/2C, 301/3
Kottivakkam Village, Chennai District.

Period: October 2025 to March 2026

7. Part-A-Common conditions applicable for Pre-construction, Construction and Operational Phases:

S.no	Conditions	Compliance
1.	Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	It is noted.
2.	The construction of STP, Solid waste Management facility, E-Waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later.	Complied. The location of STP, solid waste management facility, DG sets etc. are in the earmarked area only. The layout of the site showing STP, solid waste management facility, DG sets is enclosed in Annexure 3.
3	The Environmental safeguards contained in the application of the proponent/mentioned during the presentation before the state level Environment Impact Assessment Authority State Level Expert Appraisal Committee should be implemented in the letter and spirit.	Complied. The Environmental safeguards contained in the application mentioned during the presentation before the State Level Environment Impact Assessment Authority State Level Expert Appraisal Committee being implemented
4	All other statutory clearances such as the approvals for storage of diesel from Chief controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act 1980 and wild life (Protection) Act, 1972, State/ Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project	Complied. We have obtained approval from PESO for storage of diesel in our premises. NOC obtained from Fire and Rescue Services Department & Civil Aviation Department. (Forest Conservation Act 1980 and wild life (Protection) Act, 1972, State/ Central Ground





	shall be obtained by project proponent from the concerned component authorities	Water Authority, Coastal Regulatory Zone Authority – Not Applicable) The copy of the same is enclosed in Annexure-4.
5	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be	It is noted.
6	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	Complied. Record is maintained at the EHS department.
7	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.	Complied. We are regularly submitting the Environmental statement in Form-V every year The acknowledgement of submitted statement to TNPCB on 26.05.2026 for current financial year 01/04/2025 to 31/03/2026 is attached. The same has been uploaded on the Website of the Company. Compliance of conditions given in the Environmental Clearance are being regularly submitted to Regional Office, MoEF.
8	The Regional Office of the Ministry located at Chennai shall monitor compliance off the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information/monitoring reports.	Complied. It is noted. We will extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information monitoring reports.
9	Consent for Establishment* shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.	Complied. We have obtained CTE from TNPCB vide Proceedings No T2/TNPCB/P 2553CHN RL CHN A&W/2020 dated 25.08. 2020 (Annexure 5)
10	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation	Complied. In case of any changes in the scope of the project, we will apply for fresh appraisal.
11	The conditions will be enforced inter-alia, It is under the provisions of the after (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India Hon'ble High court of Madras and any other Courts of law, including the Hon'ble National Green Tribunal relating to the subject matter.	It is noted agreed upon.
12	The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project	It is noted and agreed upon.



13	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act. 1986.	It is noted and agreed upon.
14	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely: PM10, PM2.5, SO2, NOX (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	Complied. We have uploaded the status of the Compliance of the stipulated EC conditions including results of Ambient-Air, Water, Soil, Ambient Noise, DG Emissions and Source Noise on the Company Website and same shall be updated periodically. Link of the same is: https://www.dif.in/pdf/HYComplianceReport.pdf Six monthly Compliance report have been sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB also. The report along with acknowledgement receipt is attached. 9 nos. of D.G of capacity 200 KVA each has been installed at Site. Monitoring of Stack Emissions of all D.G sets have been done by NABL accredited on 24.01.2026..
15	The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provision of EIA Notification, 2006, if, at any stage of the validity of this Environmental clearance, if it is found or if it comes to the knowledge of this SEIAA.TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the	It is noted and agreed upon.
16	The Environmental Clearance does not imply that the other statutory administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions in dependently of the Environmental Clearance.	It is noted and agreed upon.
17	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.	It is noted and agreed upon.
18	The Environmental Clearance does not absolve the applicant/proponent obligation/requirement to of his obtain other statutory and administrative clearances from other statutory and administrative authorities.	It is noted and agreed upon.
19	Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. Planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.	Complied. It is not applicable to the Project as there is no tree cutting is involved at Site.
20	A separate environmental management cell with suitable qualified personnel should be set-up	Complied.



Director
Tamil Nadu Pollution Control Board
Chennai

	under the control of a Senior Executive who will report directly to the Head of the Organization, and the shortfall shall be strictly reviewed and addressed.	We have qualified personnel for dealing environmental management through our environmental management cell. Detailed enclosed in Annexure-6"
21	The EMP cost Rs. 338 Lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Complied. The allocated capital cost for operation phase on EMP as per EC letter is Rs. 10.85 Crores and O and M cost is 1.01 Crore/year as a part of Environment system following system are in place. 1. Organic Waste Converter for treatment of biodegradable waste. 2. Sewage treatment plant of 500 KLD capacity. 3. Grey water treatment plant of capacity 575 KLD. 4. 11 no of Rainwater harvesting pits are constructed along with sump of 2670 cum capacity. 5. Solar Panel of 410 KW has been installed on rooftop for Phase 1 and 2 activities. On all above aspects we have spent Rs. 1242.11 Lakhs as capital expenditure till date. The operations and maintenance expenses which has been spend for FY 25-26 is 102.12 Lakhs. The same is attached as is attached. We ensure that the head wise expenses shall be submitted to TNPCB with a copy to SEIAA annually in six monthly compliance Report.
22	The Project Proponent has to provide rainwater harvesting 19 pits and the rainwater collection sump of capacity 162cum in order to recover and reuse the rainwater during normal rains as reported.	Complied. The Project part operational. Hence, 11 nos. of rainwater harvesting in Phase-I (operational Phase) has been constructed. The balance 8 no shall be provided in the Phase-II. Master plan showing the location of RWH pits and photographs is attached. The rainwater collection sump of capacity 2670 cum (775, 890, 200 and 805 cum) provided in order to recover and reuse the rainwater during normal rains.
23	The project activity should not cause any disturbance & deterioration of the local biodiversity.	Complied. The project activities will not affect any local biodiversity.
24	The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest, should be evaluated and fact reported to the Forest Department & PWD for monitoring.	Complied. The Project activity will not impact any surrounding water bodies.
25	All the assessed flora & fauna should be conserved and protected.	Complied. The flora and fauna will be conserved and protected"
26	The project proponent shall adopt the Bio methanation technology for treatment & disposal of the biodegradable waste will be generated.	The project is being developed in phases. Currently the Phase -I has been developed that include Block -1 ,2 and 3 and are operational. In that part ,2 no of Organic Waste Composter of Capacity 1 ton has been installed. The generated biodegradable waste. Photographs of




		the same is attached. Bio methanation plant will be installed after development of Phase-II of the Project.
27	The proponent should strictly comply with. Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (protection) Act, 1986.	Complied. SUP had been implemented and awareness also circulated to team and display placed at Entrance. -Annexure 30
28	The proponent shall furnish the permission/NOC of water supply from the CMWSSB before obtaining CTO from TNPCB.	Complied. We have obtained NOC from CMWSSB for water supply. The copy of the same is enclosed in Annexure 5.
29	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.	Assured to comply. Entry and exit gates are manned to guide the smooth flow of traffic. Annexure-10
30	The safety measures proposed in the report should be strictly followed.	We ensure that safety aspects during construction and operation phase be strictly followed. For construction phase following are complying: 1. Personal Protective Equipment are being provided to construction labours like helmets, safety boots, masks, gloves and eye/ear protection 2. Fall protection like guard rail, safety nets are being provide when working at elevated height 3. Site safety induction programme/ mock drill are being conducted regularly For Operation Phase: 1. Emergency Response plan is drawn. Clear evacuation routes, Firefighting systems and vehicle and accessibility to first Aid station are clear Detailed ERP attached.
31	EC is issued to the land excluding the area covered under MRTS right of way and its future expansion if any in the project site.	It is noted.
32	No development activities shall be undertaken by the proponent in the area covered under MRTS right of way.	It is noted
33	The project proponent has to maintain zero Liquid discharge (71.D) as reported.	The generated treated water is being completely utilized in flushing, gardening and cooling purposes.
34	As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located, within 10 KM from National Park and sanctuaries.	Not applicable




8. Part-B-Specific Conditions- Pre- Construction phase:

S.no	Conditions	Compliance
1.	The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN	Complied. The information regarding the obtaining EC is advertised in Tamil and English newspapers. copy of newspapers enclosed in Annexure 11
2.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	Complied. It is noted and agreed upon. In case of any changes in the scope of the project, we agreed to apply the fresh appraisal.
3.	A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.	Complied. A copy of the Clearance letter has been sent to CMDA during the building plan approvals. The Clearance letter is uploaded on the website of the Company. Link of Website: https://www.dlf.in/pdf/EC-Taramani.pdf
4.	The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lighting etc. before Commencement of the work.	Complied. Structural stability certificate obtained. Enclosed in Annexure 12"
5.	All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction Phase.	Complied. "Complied. All required sanitary and hygienic measures for the workers are in place and maintained throughout the construction phase."
6.	Design of buildings should be in conformity with the Seismic Zone Classifications.	Complied. Chennai District falls under Seismic zone-III. The building has been designed as per the IS-1893-2016
7.	The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.	Complied. The Construction of the structures are undertaken as per the plans approved by CMDA."
8.	No construction activity of any kind shall be taken up in the OSR area.	Complied. No construction carried out in the OSR area.

[Handwritten Signature]



9.	Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.	Complied. Presently the project is part operational, and the generated treated water is being completely utilized in flushing, gardening and cooling purposes. When the project becomes fully operation and the water is available to use in OSR area, we will approach to local body and obtain necessary permission if required
10.	The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.	Complied. "Building heights strictly adhere to Airport Authority of India approval, and construction coverage is maintained in full compliance with norms approved by the Competent Authority." Project does not falls within Coastal Regulation Zone
11.	The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.	Complied. This is a Commercial -IT Park Project. However, Car parking for staff and employees has been provided in compliance with CMDA regulations.
12.	The project proponent shall ensure the entry of basement shall be above maximum flood level.	Complied. Flood risk assessment and mitigation study has been carried out. Copy of the report is attached. As per the study report, Site is elevated up to 2 meters and further the plinth level is higher elevation. Hence there is no flooding at Site
13.	The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details i. Location of STP, compost system, underground sewer line. ii. Pipeline conveying the treated Effluent for green belt development. iii. Pipeline conveying the treated effluent for toilet flushing. iv. Water supply pipeline v. Gas supply pipeline, if proposed, vi. Telephone cable. vii. Power cable viii. Storm water drains, and	Complied. Completion plan has been prepared showing Separate pipelines marked with different colours with the following details: i. Location of STP, compost system, underground sewer line. ii. Pipeline conveying the treated Effluent for green belt development. iii. Pipeline conveying the treated effluent for toilet flushing. iv. Water




	ix. Rainwater harvesting system, etc., and it shall be made available to the owners	supply pipeline. v. Telephone cable. vi. Power cable. vii. Storm water drains and rainwater harvesting system, etc. Completion plan is attached
14.	A First Aid Room will be provided in the project site during the entire construction and operation phases of the project.	Complied. A First Aid Room provided in the project site for treatment of injured during the construction and provided in operation phases."
15.	The present land use surrounding the project site shall not be disturbed at any point of time.	Complied. The present land use surrounding the project site will not be disturbed at point of time.
16.	The green belt area shall be planted with indigenous native trees.	Complied. Project is being developed in phase wise manner. Phase-I is completed and Consent to Operate has been obtained for Block-1, 2 and 3. Greenbelt area of 3750.0 Sqm. has been developed in the Completed block as well as along roadside. Native species of trees (184 nos.) has been planted. Remaining committed area will be developed in the next Phase. Landscape Plan and Photographs of the planted trees is attached
17.	Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.	Complied. Noted. No Existing natural vegetation and trees have been removed during the construction and operation of the Project.
18.	During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.	Complied. During the construction and operation phase, there will not be disturbance to the aquatic eco-system within and outside the area. Trees were not disturbed.
19.	The provisions of forest conservation Act 1980. Wildlife Protection Act 1972 & Biodiversity Act 2002 should not be violated.	Noted. It is not applicable to the Project for the following reasons: There is no tree cutting is involved at

Shivraj



		project site is not located within, notified National Park, Wildlife Sanctuary. The project does not impact ecologically sensitive zones.
20.	There should be Firefighting plan and all required safety plan.	Complied. The required Fire Safety Plan and Firefighting plan are in place and all the safety norms being followed during construction phase of the project- Annexure 31."
21.	Regular fire drills should be held to create awareness among owners/residents.	Complied. Regular mock fire drills are conducted to ensure workers and staff remain well-prepared, safe, and aware of emergency evacuation procedures. Record and photograph is attached.

9. Part -C- Specific Conditions - Construction phase:

1. Construction Schedule

S.no	Conditions	Compliance
1.	The project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bars charts to SEIAA-TN.	Complied. The probable date of commissioning of the Project is December 2028 supported with bars charts. Bar Charts is attached.

2. Labour Welfare

S.no	Conditions	Compliance
1	All the labours to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	Complied. All labourers engaged in construction activities have been screened for health and adequately treated both before and during their employment at the site. This ensures compliance with the health and safety commitments under the EC proposal. Please refer to the attached health screening format for detailed records."
2	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the	Complied. Construction workers health screening done and also works

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	workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.	with necessary protective equipment. Annexure-16"
3	Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots, etc.	Complied. Construction workers health screening done and works with necessary personnel protective equipment furnished as Annexure -16"

3. Water Supply

S.no	Conditions	Compliance
1	The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be outsourced.	Complied. The entire water requirement during the construction phase has been outsourced. This arrangement ensures compliance with the EC commitments and avoids reliance on groundwater sources. For reference, please find attached a sample Purchase Order issued by the main civil contractor to the water supply agency. Annexure-33"
2	Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form temporary structures to be removed after the completion of the project.	"Complied. Labourers from the local vicinity hired to the maximum extent. Facilities such as safe drinking water, medical health care, provided for the labourers."
3	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of wastewater shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through local body and the identified dumpsite only.	"Complied. Adequate drinking water is being provided to construction workers through the RO plant installed at the site. Required sanitary facilities have been arranged for workers. Wastewater from the Septic tank is disposed of through an authorized agency by CMWSSB. Municipal Solid Waste (MSW) generated at the site is disposed of through an authorized agency approved by the local body, ensuring compliance with EC commitments."




4	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.	Complied. Curing agents were used for making premixed concrete and the PO copy for purchase of curing agents enclosed as Annexure -18."
5	Fixtures for showers, toilets flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices/sensor-based control.	Complied. To optimize building water efficiency, low-flow plumbing fixtures for showers, toilets, and drinking water were installed.

4. Solid Waste Management

SL No	Conditions	Compliance
1	In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.	Complied. The STP sludge is being co-composted with biodegradables Waste in the Organic Waste Composter and converted in manure.
2	Household hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residencies and disposed as per the SWM Rules 2016.	Complied. Hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles is being segregated at source and collected in designated black/red bins, stored securely in a hazardous waste room, and disposed of monthly through authorized recyclers as per the SWM Rules 2016.
3	Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.	Complied. Different bins have been provided for collection for domestic solid waste. Domestic Solid waste generated is being disposed through an agreement with Vendor namely Green City Services. Copy of agreement is attached.
4	No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.	Complied. No wastes will be disposed into water course including drains, canals, and the surrounding environment.
5	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.	Complied. E-waste is generation is collected and disposed as per E-waste (Management and Handling) Rules, 2016 Annexure-21"




5. Top Soil Management

S.no	Conditions	Compliance
1	All the topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	Complied. Topsoil excavated during construction stored and being used for landscape development within the project site"

6. Construction Debris Disposal

S.no	Conditions	Compliance
1	Disposal of construction debris during construction phase should not create any adverse effect on the neighbouring communities and be disposed of only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules 2016 Construction spoils,	Complied. Construction debris being used for levelling the site and road laying.
2	Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/ stream etc.	Complied.

7. Diesel Generator Set

S.no	Conditions	Compliance
1	Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.	Complied. Low Sulphur Diesel is being used for operating diesel generator sets during construction phase. The monitoring of D.G emission and DG Noise has been carried out by an NABL Accredited laboratory. The latest Report of D.G and noise monitoring is attached.
2	The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.	Complied. Noted. The diesel required for operating stand by DG sets stored in underground tanks.
3	The acoustic enclosures shall be installed at all noise generating equipment such as DG sets, air conditioning systems, cooling water tower etc.	Complied. Acoustic enclosures installed at noise generating equipment such as DG sets

8. Air & Noise Pollution Control




S.no	Conditions	Compliance
1	Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards presented by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.	Complied. In compliance with the Environmental Clearance (EC) commitments, all vehicles hired for transporting construction materials to the site are maintained in good condition and conform to the air and noise emission standards prescribed by TNPCB/CPCB. Furthermore, these vehicles are operated only during non-peak hours to minimize environmental and traffic impacts."
2	Ambient air and noise levels should conform to residential standards presented by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phases. The pollution abatement measures shall be strictly implemented.	Complied. The monitoring of Ambient-Air and Noise level has been carried by the NABL accredited Laboratory. The Ambient Air Quality and Ambient Noise are well within the Standard for Industrial area prescribed by the TNPCB both during day and nighttime. Latest report of the same is attached. The Pollution abatement adopted are as follows: 1. Regular water sprinkling is done 2. Barricading of the construction are done 3. Green nets are provided on the construction material 4. Vehicles carrying material are covered with tarpaulin sheet 5. Construction machineries are regularly maintained 6. DG used in construction are acoustically enclosed.
3	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized, and no public space should be utilized. Parking plan to be as per CMDA norms. The traffic department shall be consulted, and any cost-effective traffic Regulative facility shall be met before commissioning.	Complied. Entry and exit gates are manned to guide the smooth flow of traffic. Parking facility provided within the project site. Parking plan enclosed in Annexure-10"
4	The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	Complied. The building structures are designed and being constructed in such a way so as to allow free movement of fresh air and passage of natural light, air and ventilation.




5	The project proponent should ensure that adequate Air Pollution Control measures shall be provided from buses and other vehicles, which will be entering the bus terminal. Further, water sprinkling system shall be provided and same shall be used at regular interval to control the dust emission within the project site.	Complied. Noted. Regular Water sprinkling is being done to suppress the dust emission within the Project Site.
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9. Building Materials

S.no	Conditions	Compliance
1	Fly-ash blocks should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.	Complied. Fly ash blocks being used for construction. -Annexure-18
2	Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.	Complied. Ready mix concrete being used in building construction.
3	Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.	Complied. "Multiple Energy Conservation Measures (ECMs) have been incorporated to offset the increase in cooling load and improve overall energy performance. These include high-performance glazing, roof insulation, efficient HVAC systems with COP 6.33, heat recovery wheel, VFDs, DCV, optimized lighting with occupancy sensors, and CO sensor-based basement ventilation. Collectively, these measures mitigate the impact of the higher glazing percentage and ensure targeted energy savings for the project."

10. Storm Water Drainage

S.no	Conditions	Compliance
1	Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.	Noted. Storm Water Management plan is attached.
2	Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	Complied.



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		Storm Water Management Plan prepared and attached.
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11. Energy Conservation Measures

S.no	Conditions	Compliance
1	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material. to full fill the requirement.	Complied. Roof is provided with foam finishes as thermal insulation material and the photo is enclosed as Annexure-23."
2	Opaque wall should meet prescribed requirement as per Energy conservation Building Code which is mandatory for all air-conditioned spaces by use of appropriate thermal insulation material to fulfil the requirement	"Complied. Multiple Energy Conservation Measures (ECMs) have been incorporated to offset the increase in cooling load and improve overall energy performance. These include high-performance glazing, roof insulation, efficient HVAC systems with COP 6.33, heat recovery wheel, VFDs, DCV, optimized lighting with occupancy sensors, and CO sensor-based basement ventilation. Collectively, these measures mitigate the impact of the higher glazing percentage and ensure targeted energy savings for the project"
3	All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.	Complied. Usage of solar lighting in common areas as energy conservation measures.
4	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.	Complied. Solar panel used for common area lightings.
5	A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three months' time.	Assured to comply.
6	Energy conservation measures like installation of CFLS/TFLS for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.	Complied. LED lamps being used for lighting as Energy Conservation measures.

12. Fire & Safety

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S.no	Conditions	Compliance
1	Adequate fire protection equipment's and rescue arrangements should be made as per the prescribed standards.	Complied. Fire protection measures adopted in the operational part: 1. Provision of independent sprinkler line with flow switch on each floor. 2. Test drain assembly on each floor for sprinkler system. 3. Wet Riser System with Fire Hose Cabinets at each emergency fire escape staircase. 4. Provision to receive the Tenant Automatic Fire Detection and Alarm System. 5. Emergency Fire evacuation systems are in place.
2	Proper and free approach road for fire fighting vehicles up to the buildings and for rescue operations in the event of emergency shall be made.	Complied. Adequate and free approach road provided for movement of firefighting vehicles

13. Green Belt Development

S.no	Conditions	Compliance
1	The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed	Complied. Project is being developed in phase wise manner. Phase-I is completed and Consent to Operate has been obtained for Block-1, 2 and 3. Greenbelt area of 3750 Sqm. has been developed in the Completed block as well as along roadside. Native species of trees (184 nos.) has been planted. Remaining committed area will be developed in the next Phase. Miyawaki method is not feasible in the project. However, we ensure the plantation of native species with thick canopy cover Landscape Plan and Photographs of the planted trees is attached
2	The purpose of Green Belt around the project is to capture the fugitive emission and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District State Agricultural University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas.	Project is being developed in phase wise manner. Phase-I is completed and Consent to Operate has been obtained for Block-1, 2 and 3. Greenbelt area of 3750 Sqm. has been developed




	Medium size trees and small trees alternating with shrubs shall be planned. If possible Miyawaki method of planting Le Planting different types of trees at very close intervals may be tried which will give a good green cover A total of 15% of the plot area should be designated for green held which should be raised along the boundaries of the plot with maximum of 3mt width all along the periphery and in between blocks in an organized manner	Completed block as well as along roadside. Native species of trees (184 nos.) has been planted. Remaining committed area will be developed in the next Phase. We ensure that the green belt will not be altered at any stage for any other purposes
3	The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.	Complied. Project is being developed in phase wise manner. Phase-I is completed and Consent to Operate has been obtained for Block-1, 2 and 3. Greenbelt area of 3750 Sqm. has been developed in the Completed block as well as along roadside. Native species of trees (184 nos.) has been planted. Remaining committed area will be developed in the next Phase. We ensure that the green belt will not be altered at any stage for any other purposes
4	The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area all along the boundary of the project site with at least 3-meter-wide and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval.	Complied. The layout showing the greenbelt development plan along with GPS coordinates for the green belt area all along the boundary of the project site is attached

14. Sewage Treatment Plant

S.no	Conditions	Compliance
1	The Sewage Treatment Plant (STP) installed should be certified by an independent expert reputed Academic institution for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor. etc., for the treatment of sewage.	Complied. STP certified by independent expert for its adequacy is submitted to SEIAA along with HYCR in the PARIVESH Portal. Adequacy certificate obtained from independent expert of Eco Tech Labs Pvt. Ltd is attached
2	The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.	Complied. Photo showing STP is enclosed in Annexure 10, and the quality of the




		treated sewage will meet the prescribed standards."
3	The project proponent shall operate and maintain the Sewage Treatment Plant and grey water treatment plant effectively to meet out the standards prescribed by the CPCB.	Complied. Sewage Treatment Plant and grey water treatment plant operated and maintained effectively to meet out the standards prescribed by the CPCB. Test report for sewage enclosed as Annexure 2
4	The project proponent shall continuously operate and maintain the Sewage Treatment plant and grey water treatment plant to achieve the standards prescribed by the CPCB.	Complied. Sewage Treatment plant and grey water treatment plant are being continuously operated and maintained to achieve the standards prescribed by the CPCB.
5	The project proponent has to ensure the complete recycling of treated Sewage & Grey water after achieving the standards prescribed by the CPCB.	Complied. Complete recycling of Sewage and Grey Water Treated water is being done and treated Sewage and Grey Water is achieving the standards prescribed by CPCB. Test report of the same is attached. Treated Sewage is being used for Toilet flushing, Greenbelt.
6	The project proponent has to provide separate standby D.G set for the STP/GWTP for the continuous operation of the STP/GWFP in case of power failure.	Complied. In the DLF Project, since 2000 KVA HT generators are operating within the premises, changeover has been provided at the DG room. The LT supply is fed from the DG room to STP and WTP directly in the event of power failure. The design team Single Line Diagram SLD is attached for reference. Annexure 35.
7	The proponent shall obtain the necessary permission to utilize the treated sewage/ grey water for avenue plantation and green belt development in the OSR area after achieved the standards prescribed for the treated sewage by TNPCB	Complied. The quality of treated sewage is satisfying the quality prescribed in the CTO by TNPCB. Latest test report of treated Sewage is attached.

15. Rainwater Harvesting

S.no	Conditions	Compliance
1	The proponent/Owner of the Flats shall ensure that roof rainwater collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rainwater harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused	Complied. Each recharge pit has been provided with a three-layer multi-grade aggregate filtration system, with each layer having a depth of 300 mm. The arrangement includes




		mm aggregate at the top, 40 50 mm aggregate in the middle, and 150 230 mm aggregate at the bottom. This design effectively prevents silt, suspended particles, and oil traces from entering the groundwater recharge system, while ensuring proper percolation and minimizing turbidity.as Annexure 26
2	Rainwater harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc must be done to remove suspended matter. Oil and grease etc.	Complied. Rainwater Harvesting pits of 11Nos. installed out of proposed 19 Nos. and the pits are designed to remove suspended matters, Oil and Grease etc. before recharge. Rainwater harvesting system is designed to recharge the aquifer to 4 layers of course and fine aggregates.
3	The Project proponent has to provide rainwater harvesting collection tank to the capacity of 162 KL.D in order to recover and reuse the rainwater during normal rains.	Complied. The rainwater collection sump of capacity 2670 cum (775, 890, 200 and 805 cum) provided in order to recover and reuse the rainwater during normal rains.
4	The project activity should not cause any disturbance & deterioration of the local biodiversity	Complied. The project activity will not affect any local biodiversity."

16. Building Safety

S.no	Conditions	Compliance
1	Lightning arrester shall be properly designed and installed at top of the building and wherever is necessary.	Complied. Lightning arrester will be properly designed and installed.

10. Part-D-Specific Conditions - Operational Phase/Post Constructional Phase/Entire life of the project:

SL No	Conditions	Compliance
1	There should be firefighting plan and all required safety plan.	"Complied. Fire safety plan file attached-Annexure-31"
2	Regular fire drills should be held to create awareness among owners/residents.	"Complied. The building has been designed in such a way that it will not affect aesthetics of surrounding."




3	Household hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.	Complied. Hazardous waste such as batteries, small electronics, LED bulbs, expired medicines being segregated, and disposed as per the SWM rules 2016. Annexure-27.
4	The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.	Complied. The building has been designed in such a way that it will not affect aesthetics of surroundings
5	The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc.) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.	Complied. The project Site not encroached water body (rivers, canals, lakes, ponds, tanks, etc.) from its original boundary. A detailed inventory of the water bodies has been evaluated within the 10 Km from the Project Site. A Topographical map showing the distance of Water bodies from the Project Site is attached
6	The project proponent shall furnish the flood NOC from the PWD before obtaining CTO from TNPCB.	Complied. The Flood Risk Assessment and Mitigation Study has been conducted by Eco first Services Limited. The report includes Assessment of potential impacts of high-water level in adjoining nallah/ drain/ pond and identification of feasible measures for mitigation of probable adverse impact due to floods in the drainage network and nallah/ drain/ pond adjoining the site. The report is attached
7	Solar energy saving shall be increased to at least 10% of total energy utilization.	Complied. Solar panels of 410 KW have been provided and Solar Panels of 502 will be provided in the 2nd Phase of the Project.
8	The project proponent shall spend the CER amount for Rs. 12.35 Crores (0.5% of the project cost) to carry out for DD favouring Environmental Management Authority of Tamil Nadu (EMAT) and the said amount shall be utilized for the de-silting and beautification of water bodies in and around project site before applying for CTO from TNPCB.	"Complied. The project is under construction. CER activities will be carried out in phased manner, and it will be complied"
9	The EMP cost of RS 11.86 crores shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	The Project is being developed in phases, with the currently Operational Portion covering a built-up area of 361,925.22 sqm. For this developed phase, an expenditure of Rs. 1242.11 Lakhs has been already incurred as part of the Environmental

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		Management Plan (EMP). Additionally, the recurring Operations and Maintenance (O and M) cost for the EMP items is Rs. 102.12 Lakhs has been spent in FY 25-26. We ensure that the same will be submitted annually to SEIAA and TNPCB.
10	The EMP cost shall be printed in the Brochure /pamphlet for the preparation of the sale of the property and should also mention the component involved.	Noted.
11	The project proponent shall get due permission from the wetland authority before the commencement of the work, if applicable.	Not applicable
12	The project proponent shall discuss with the wet land Authority, Tamil Nadu Forest Department, PWD and support lake restoration cum improvement. awareness and conservation programs.	Not applicable.
13	The project activities should in no way disturb the manmade structures.	Assured to comply
14	The proponent shall do afforestation restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years...	Complied. It is not applicable to the Project as there is no tree cutting is involved at Site.
15	Consent to operate should be obtained from the Tamil Nadu Pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-IN.	Complied. Project is being developed in phase wise manner, Phase-I is completed and Consent to Operate has been obtained for Block-1, 2 and 3. Copy of CTQ is attached.
16	Raw water quality to be checked for probability and if necessary, RO plant shall be provided.	Complied. Water treatment Plant has been provided to ensure the quality of drinking water. Testing of treated Water from WTP has been carried out regularly from NABL accredited Lab namely Interstellar Testing Centre Pvt. Ltd. Results of treated water is well within the prescribed standard of Drinking water-IS-10500. The test report is attached
17	The proponent shall be responsible for the maintenance of common facilities including greening, rainwater harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in	Complied. Maintenance of common facilities including greening, rainwater harvesting, sewage treatment and disposal, solid waste disposal environmental and monitoring including terrace gardening will be carried out by maintenance department.



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	Environmental Clearance (EC) order issued by the SEIAA-TN or the proponent himself shall maintain all the above facilities for the entire period, The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.	
18	The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.	Complied. It is not applicable to the Project as there is no abstraction is ground water at Site.
19	Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.	Complied. Sewage/Effluent generated from STP is being recycled and treated Sewage has been used in Flushing and Gardening. Monitoring of treated Sewage has been carried out regularly. The treated sewage complies with CPCB standards for bathing quality. Proper ventilation has been provided in the STP to mitigate the Odour problem.
20	The proponent shall operate STP continuously by providing stand by DG set in case of power failure.	Complied. DG sets of 2000 KVA installed for the continuous operation of the STP/GWTP in case of power failure
21	It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/ avenue plantation should not pollute the soil/ground water/ adjacent canals/lakes/ponds, etc.	Complied. Regular monitoring of treated Sewage has been carried out. Treated Sewage complies with the standard of TNPCB/CPCB. Test report of treated Sewage is attached
22	Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.	Complied. Proper ventilation has been provided in the STP to mitigate the Odour problem.
23	The e-waste generated should be collected and disposed to a nearby authorized e-waste centre as per E-waste (Management & Handling), Rules 2016 as amended.	Complied. The e-waste generated will be disposed to a nearby authorized e-waste centre. Annexure-27.
24	Diesel power generating sets proposed as source of backup power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.	Complied. Diesel Power Generator sets used in construction are acoustically enclosed. A stack height of 26 m above ground level has been provided on each DG set. Complied
25	The noise level shall be maintained as per MOEF/CPCB/TNPCB guidelines norms both during day and nighttime.	Complied. The monitoring of Noise level has been carried by the NABL accredited Laboratory. The Ambient Noise are well within the Standard for the area prescribed




		MOEF/CPCP/TNPCB both during day and nighttime.
26	Spent oil from DG sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other waste (Management & Transboundary Movement) Rules 2016 Spent oil from DG sets should be disposed of through registered recyclers	Complied. Spent oil from DG sets stored in HDPE drums in an isolated covered facility. It has been disposed through authorized recycler namely M/s. Atlas Corporation. Copy of the agreement is attached.
27	The proponent is required to provide a household Hazardous waste E-Waste collection and disposal mechanism.	Complied. Hazardous waste such as spent oil will be disposed to authorized recyclers. E Waste will be disposed to authorized recyclers. Annexure 21
28	The proponent/owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed of in the natural drainage /channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.	Complied. This is a Commercial IT Park Project. Regular maintenance of storm water drain has been done. Storm Water management plan prepared. Plan is attached.
29	Used CFLs and TFLs should be properly collected and disposed of sent for recycling as per the prevailing guidelines rules of the regulatory authority to avoid mercury contamination	"Complied. Used CFLs and TFLs will be properly collected and disposed of sent for recycling- Form 3
30	A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order/sale deed.	"Complied. Copy of the Environmental clearance available in the maintenance department Annexure-38"
31	Failure to Comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provision of Environment (Protection) Act, 1986.	It is noted.
32	The Environment Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be demanded to be revoked/cancelled.	It is noted and agreed upon.



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Annexure-I
Copy of Consent to Operate

Category of the Industry :

RED



CONSENT ORDER NO. 2608273061808 DATED: 27/04/2026.

PROCEEDINGS NO.T4/TNPCB/F.0492CHS/RL/CHS/A/2026 DATED: 27/04/2026

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT –M/s. DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-II) , S.F.No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9, THIRUVANMIYUR village, Velacheri Taluk and Chennai District - Renewal of Consent for the operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg. (Industry User ID- O20CHN31061715)

REF: 1. Application no. 73061808 dated:18.03.2026/02.04.2026.
2. IR.No : F.0492CHS/RL/AEE/CHS/2026 dated 13/04/2026.

RENEWAL OF CONSENT is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as “The Act”) and the rules and orders made there under to

The Director

M/s . DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-II)

S.F No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9

THIRUVANMIYUR Village

Velacheri Taluk

Chennai District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending **March 31, 2029**

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Construction of "DLF IT PARK" IT/ITES High Rise building consisting of Combined 1 Basement floor for Block-1, 2 & 3, Block-1: BF (Parking) + Stilt/Ground Floor (Canteen/Shops/Parking) + 3 floors (Parking) + 4th floor 18 Floors + 19th Floor (Solar Voltaic Panel) -IT Building, and annexed with Multilevel Two Wheeler Parking (4 levels) Block-2: GF +2 floors Utility building, Block-3: BF (Parking)+Stilt/Ground floor (Canteen/Shops/parking) + 3 floors (Parking) + 4th floor to 17 floors with total built up area of as Phase – II	361925.33	Sq.m

2. This renewal of consent is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm ³ /hr
01-09	DG Set - 2000 KVA-9 Nos.	Acoustic enclosure with individual stack (each)	26	
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	DG Set-2000 KVA-9 Nos.	Noise	Individual Acoustic Enclosure provided	

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The conditions stipulated in the Environmental Clearance issued by SEIAA-TN vide letter no. SEIAATN/F.6645/EC/8(b)/689/2020 dated 22/01/2020 shall be complied with. Half-yearly (six months) status report on compliance of EC conditions shall be furnished to SEIAA-TN & TNPCB regularly.
2. In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTO of the Board, for the remaining phases.
3. In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
4. It shall be ensured that no process emission is let out from the activity under any circumstances and at any point of time.
5. The emissions let out from the stack provided to the DG set shall achieve the Ambient Air quality/Ambient Noise Level Standards prescribed by the Board.
6. Project Proponent shall provide Acoustic Enclosures with Retrofit emission Control Devices(RECD)/ dry catalytic converter/ wet scrubber & common stack as APC measures for the DG sets (9nos of 2000 KVA), so as to satisfy the Ambient Air Quality/Emission standards prescribed by the Board.
7. Adequate green belt shall be developed with native species and maintained within the premises.
8. In case of revision of consent fee by the Government, the unit shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be initiated against the unit as per law.
9. The project proponent shall allocate and utilize the CER fund of Rs. 12.35 Crores. The said amount shall be utilized for the purpose of de- silting and the beautification of the water bodies in and around the project and shall furnish time bound action plan with completion schedule within a month to Board.
10. The EMP cost(Rs.11.86 Crores) shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
11. This consent order does not absolve from obtaining necessary permission / clearance from other Authority or under other Statute as applicable

To
The Director,
M/s.DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-II),
Old No. 828 & 828A, New No. 268 & 268A, Sri Ranga, Poonamallee, High Road, Kilpauk, Chennai
Pin: 600010

Copy to:

- 1.The Commissioner, CHENNAI-Corporation, Velacheri Taluk, Chennai District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, CHENNAI SOUTH.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chengalpattu.
4. File

Signature Not Verified

Digitally Signed by :Indira Gandhi S
For Member Secretary
Tamil Nadu Pollution Control Board,
Chennai

Date: 2026.04.29 15:34:16 IST

Category of the Industry :

RED



CONSENT ORDER NO. 2608173061808 DATED: 27/04/2026.

PROCEEDINGS NO.T4/TNPCB/F.0492CHS/RL/CHS/W/2026 DATED: 27/04/2026

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT – M/s. DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-II) , S.F.No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9, THIRUVANMIYUR village, Velacheri Taluk and Chennai District - Renewal of Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg. (Industry User ID-O20CHN31061715)

REF: 1. Application no. 73061808 dated:18.03.2026/02.04.2026.
2. IR.No : F.0492CHS/RL/AEE/CHS/2026 dated 13/04/2026.

RENEWAL OF CONSENT is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as “The Act”) and the rules and orders made there under to

The Director

M/s . DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-II)

S.F No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9

THIRUVANMIYUR Village

Velacheri Taluk

Chennai District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending **March 31, 2029**

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Construction of "DLF IT PARK" IT/ITES High Rise building consisting of Combined 1 Basement floor for Block-1, 2 & 3, Block-1: BF (Parking) + Stilt/Ground Floor (Canteen/Shops/Parking) + 3 floors (Parking) + 4th floor 18 Floors + 19th Floor (Solar Voltaic Panel) -IT Building, and annexed with Multilevel Two Wheeler Parking (4 levels) Block-2: GF +2 floors Utility building, Block-3: BF (Parking)+Stilt/Ground floor (Canteen/Shops/parking) + 3 floors (Parking) + 4th floor to 17 floors with total built up area of as Phase – II	361925.33	Sq.m

2. This renewal of consent is valid for operating the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	837.0	Flushing-426.0, Cooling-372.0, Gardening-39.0
Effluent Type : Trade Effluent - NIL			

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The conditions stipulated in the Environmental Clearance issued by SEIAA-TN vide letter no. SEIAATN/F.6645/EC/8(b)/689/2020 dated 22/01/2020 shall be complied with. Half-yearly (six months) status report on compliance of EC conditions shall be furnished to SEIAA-TN & TNPCB regularly.
2. In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTO of the Board, for the remaining phases.
3. In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
4. The stability of the entire building/ STP does not falls under the purview of the TNPC Board.
5. Project proponent shall always possess valid permission from competent authority for supply of fresh water to the unit.
6. It shall be ensured that fresh water requirement (677 KLD) for the project activity shall be met from sources of CMWSSB as reported & maintain records in this regard. There shall not be any drawl of ground water within the premises under any circumstances. In case of any drawl of ground water thro' bore wells, permission from Competent Authority shall be obtained in this regard and furnish to TNPCB.
7. Sewage Treatment Plant and Grey water treatment plant shall be operated and maintained efficiently and continuously for the treatment of sewage generation so as to bring the quality of treated sewage to satisfy the discharge standards prescribed by the Board at all times.
8. Project Proponent shall operate and maintain the online continuous monitors to measure the parameters viz pH, Total Suspended Solids, BOD and Dissolved Oxygen at the inlet and outlet of sewage treatment plant with computer recording arrangement and same shall be connected to WQW, Tamil Nadu Pollution Control Board, Chennai.
9. EMFMs with automatic recorder and display arrangement at the inlet/outlet of STP with separate energy meter provided shall be maintained properly for ensuring continuous operation & monitoring of flow & records maintained in this regard shall be available for verification by inspection officers.
10. It shall be taken action to calibrate the Electromagnetic Flow meters provided in the STP periodically only through approved laboratories of Weights and Measures Department for display of correct readings at all time and furnish calibration certificate periodically to the Board.
11. Action shall be taken to operate and maintain Online Continuous Effluent Monitoring System (OCEMS) in the outlet of STP & ensure connectivity with WQW of TNPCB for continuous monitoring of treated waste water parameters such as pH, TSS, BOD, COD, flow for transmission of effluent data without any interruption.
12. The treated sewage shall be utilized for green belt development and toilet flushing, HVAC after Ultra filtration followed by UV Disinfection after achieving the standards prescribed by the Board. Records shall be maintained for actual recycle of treated sewage for toilet flushing & Gardening & available for verification by inspection officer.
13. There shall not be any discharge of untreated/treated sewage outside the premises directly/indirectly in the nearby water body under any circumstances under any circumstances.
14. It shall be maintained the dual plumbing system for the separate collection & treatment of grey waste stream & toilet waste stream & effective utilisation of treated waste water for toilet flushing, gardening/green belt development etc.
15. The operation of Sewage Treatment Plant shall not create any adverse impact on the environment under any circumstances.
16. Project proponent shall have all essential spare parts for the important mechanical/ electrical equipment at the site, in order to replace and rectify the repairs immediately in the event of any breakdown and to restart the operation without any time delay and ensure continuous operation of all the component of the Sewage Treatment Plant.
17. Treated sewage samples shall be collected and analysed through TNPCB Laboratory regularly and furnish report of analysis (ROA) to TNPCB periodically.
18. Project proponent shall ensure that the excess treated sewage shall not find access to any nearby water body at any point of time.
19. Project proponent shall maintain the log books for the continuous operation of the STP by entering the details like EMFM readings, chemical consumption, running hours and power consumption etc.
20. Project proponent shall provide and maintain the energy meters to record the daily energy consumption of the STP on daily basis.
21. Project proponent shall maintain solar panel for street lighting, common areas and for office building to the extent possible.
22. Project proponent shall maintain arrangements for storm water disposal and for rain water harvesting within the project site.
23. Project proponent shall maintain good housekeeping.
24. The bio degradable solid waste, non-bio degradable solid waste, STP sludge, etc., generated from the activity shall be properly collected, segregated and disposed as per the provision of Solid waste Management Rules, 2026 without accumulation within the premises.
25. Food waste from canteen & other organic waste shall be collected separately and treated in Organic

Waste Converter and the treated compost shall be used as manure for gardening.

26. It shall be ensured that Organic Waste Converter shall be operated and maintained properly to handle the Bio- degradable waste generated from the activity.

27. STP tanks shall not be cleaned manually and it should be carried out only by mechanical system with high level supervision.

28. Plastic wastes shall be collected segregated and disposed for recycling as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.

29. 'Single use and Throwaway plastic items' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, shall not be used within the premises. Instead, it shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.,

30. E-waste generation shall be managed as per the provisions of the E- waste Management Rules,2022 as amended.

31. Rain water harvesting system installed within the premises shall be maintained properly so as to recharge the ground water.

32. In case of revision of consent fee by the Government, the unit shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent will be withdrawn without any notice and further action will be initiated against the unit as per law.

33. The project proponent shall allocate and utilize the CER fund of Rs. 12.35 Crores. The said amount shall be utilized for the purpose of de- silting and the beautification of the water bodies in and around the project and shall furnish time bound action plan with completion schedule within a month to Board.

34. The EMP cost(Rs.11.86 Crores) shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.

35. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.

To
The Director,
M/s.DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-II),
Old No. 828 & 828A, New No. 268 & 268A, Sri Ranga, Poonamallee, High Road, Kilpauk, Chennai
Pin: 600010

Copy to:

- 1.The Commissioner, CHENNAI-Corporation, Velacheri Taluk, Chennai District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, CHENNAI SOUTH.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chengalpattu.
4. File

Signature Not Verified

Digitally Signed by :Indira Gandhi S
For Member Secretary
Tamil Nadu Pollution Control Board,
Chennai

Date: 2026.04.29 16:33:45 IST

Annexure-II
Test report of Ambient-Air



TEST REPORT

ORIGINAL

Page 1 of 2

Test Report No. : TR02EN-2603120333
NABL ULR No. : TC1573026000014176F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2603050146	Received On : 05/03/2026
Sample Name : Ambient Air Quality	Commenced On : 05/03/2026
Sample Condition : Good	Completed On : 11/03/2026
	Date of Report : 12/03/2026

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near DT -1 Outside
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/05/03/2026
Test Report as per : NAAQ Norms

S. No. Sampling Information:

- | | |
|--------------------------------------|---------------------|
| (a) Date of Monitoring , - | : 04.03.26-05.03.26 |
| (b) Duration of Monitoring , minutes | : 1440 |
| (c) Avg. Ambient Temperature , °C | : 31 |
| (d) Relative Humidity , %(Avg.) | : 63 |
| (e) Sky Appearance , - | : Clear Sky |

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Ambient Air Quality Parameters					
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182(Part-2): 2001	6.84	80 Max
2	Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182(Part -6): 2006	15.73	80 Max
3	Particulate Matter (PM 10)	µg/m ³	IS 5182(Part-23): 2006	57.89	100 Max
4	Particulate Matter (PM 2.5)	µg/m ³	IS 5182(Part-24): 2019	23.26	60 Max
5	Ozone (O ₃)	µg/m ³	IS 5182(Part-9): 1974	14.02	180 Max
6	Lead (pb)	µg/m ³	IS 5182(Part-22): 2004	BDL(DL : 0.02)	1 Max
7	Carbon Monoxide (CO)	mg/m ³	IS 5182(Part-10):	BDL(DL : 1.0)	2 Max



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

- The test result related only to the items tested.
- The test report shall not be reproduced in full or part without the written approval of ITC Labs, Chennai.
- The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers.



TEST REPORT

ORIGINAL

Page 2 of 2

Test Report No. : TR02EN-2603120333

NABL ULR No. : TC1573026000014176F

S. No.	Parameter	Measuring Unit	Method	Result	Specification
			1999		
8	Ammonia (NH ₃)	µg/m ³	IS 5182(Part-25): 2018	6.52	400 Max
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182(Part-11): 2006	BDL(DL : 1.0)	5 Max
10	Benzo (a) Pyrene (Particulate Phase only)	ng/m ³	IS 5182(Part-12): 2004	BDL(DL : 1.0)	1 Max
11	Arsenic (As)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	6 Max
12	Nickel (Ni)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	20 Max

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser, Low Flow Air Sampler. BDL: Below Detection Limit. DL: Detection Limit

REMARKS : The above sample complies with NAAQ norms with respect to the above tested Parameters.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

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TEST REPORT

ORIGINAL

Page 1 of 2

Test Report No. : TR02EN-2603120332
NABL ULR No. : TC1573026000014175F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2603050147	Received On : 05/03/2026
Sample Name : Ambient Air Quality	Commenced On : 05/03/2026
Sample Condition : Good	Completed On : 11/03/2026
Sample Details (if any)	Date of Report : 12/03/2026

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near In between DT -1 & DT -2
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/05/03/2026
Test Report as per : NAAQ Norms

S. No.	Parameter	Measuring Unit	Method	Result	Specification
S. No. Sampling Information:					
(a)	Date of Monitoring , -	: 04.03.26-05.03.26			
(b)	Duration of Monitoring , minutes	: 1440			
(c)	Avg. Ambient Temperature , °C	: 31			
(d)	Relative Humidity , %(Avg.)	: 63			
(e)	Sky Appearance , -	: Clear Sky			
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Ambient Air Quality Parameters					
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182(Part-2): 2001	6.71	80 Max
2	Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182(Part -6): 2006	15.44	80 Max
3	Particulate Matter (PM 10)	µg/m ³	IS 5182(Part-23): 2006	56.82	100 Max
4	Particulate Matter (PM 2.5)	µg/m ³	IS 5182(Part-24): 2019	24.76	60 Max
5	Ozone (O ₃)	µg/m ³	IS 5182(Part-9): 1974	13.76	180 Max
6	Lead (pb)	µg/m ³	IS 5182(Part-22): 2004	BDL(DL : 0.02)	1 Max
7	Carbon Monoxide (CO)	mg/m ³	IS 5182(Part-10):	BDL(DL : 1.0)	2 Max



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

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TEST REPORT

ORIGINAL

Page 2 of 2

Test Report No. : TR02EN-2603120332

NABL ULR No. : TC1573026000014175F

S. No.	Parameter	Measuring Unit	Method	Result	Specification
			1999		
8	Ammonia (NH ₃)	µg/m ³	IS 5182(Part-25): 2018	6.43	400 Max
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182(Part-11): 2006	BDL(DL : 1.0)	5 Max
10	Benzo (a) Pyrene (Particulate Phase only)	ng/m ³	IS 5182(Part-12): 2004	BDL(DL : 1.0)	1 Max
11	Arsenic (As)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	6 Max
12	Nickel (Ni)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	20 Max

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser, Low Flow Air Sampler. BDL: Below Detection Limit. DL: Detection Limit

REMARKS : The above sample complies with NAAQ norms with respect to the above tested Parameters.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

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TEST REPORT

ORIGINAL

Page 1 of 2

Test Report No. : TR02EN-2603120330
NABL ULR No. : TC1573026000014173F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2603050148
Sample Name : Ambient Air Quality
Sample Condition : Good

Received On : 05/03/2026
Commenced On : 05/03/2026
Completed On : 11/03/2026
Date of Report : 12/03/2026

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : Near DT - 2 Outside
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/05/03/2026
Test Report as per : NAAQ Norms

S. No. Sampling Information:

- (a) Date of Monitoring , - : 04.03.26-05.03.26
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 31
(d) Relative Humidity , %(Avg.) : 63
(e) Sky Appearance , - : Clear Sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(1) Ambient Air Quality Parameters					
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182(Part-2): 2001	7.12	80 Max
2	Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182(Part -6): 2006	16.38	80 Max
3	Particulate Matter (PM 10)	µg/m ³	IS 5182(Part-23): 2006	60.27	100 Max
4	Particulate Matter (PM 2.5)	µg/m ³	IS 5182(Part-24): 2019	25.89	60 Max
5	Ozone (O ₃)	µg/m ³	IS 5182(Part-9): 1974	14.56	180 Max
6	Lead (pb)	µg/m ³	IS 5182(Part-22): 2004	BDL(DL : 0.02)	1 Max
7	Carbon Monoxide (CO)	mg/m ³	IS 5182(Part-10):	BDL(DL : 1.0)	2 Max



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

- The test result related only to the items tested.
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TEST REPORT

ORIGINAL

Page 2 of 2

Test Report No. : TR02EN-2603120330

NABL ULR No. : TC1573026000014173F

S. No.	Parameter	Measuring Unit	Method	Result	Specification
			1999		
8	Ammonia (NH ₃)	µg/m ³	IS 5182(Part-25): 2018	6.77	400 Max
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182(Part-11): 2006	BDL(DL : 1.0)	5 Max
10	Benzo (a) Pyrene (Particulate Phase only)	ng/m ³	IS 5182(Part-12): 2004	BDL(DL : 1.0)	1 Max
11	Arsenic (As)	ng/m ³	USEPA Method IO 3.4	BDL(DL :2.0)	6 Max
12	Nickel (Ni)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	20 Max

NOTE : NAAQ: National Ambient Air Quality. Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser.Low Flow Air Sampler. BDL: Below Detection Limit. DL: Detection Limit

REMARKS : The above sample complies with NAAQ norms with respect to the above tested Parameters.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

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TEST REPORT

ORIGINAL

Page 1 of 2

Test Report No. : TR02EN-2603120331
NABL ULR No. : TC157302600014174F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2603050149	Received On : 05/03/2026
Sample Name : Ambient Air Quality	Commenced On : 05/03/2026
Sample Condition : Good	Completed On : 12/03/2026
	Date of Report : 12/03/2026

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : South West (Near GLS)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/05/03/2026
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , - : 04.03.26-05.03.26
(b) Duration of Monitoring , minutes : 1440
(c) Avg. Ambient Temperature , °C : 29
(d) Relative Humidity , %(Avg.) : 72
(e) Sky Appearance , - : Clear Sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Ambient Air Quality Parameters					
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182(Part-2): 2001	7.42	80 Max
2	Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182(Part -6): 2006	15.96	80 Max
3	Particulate Matter (PM 10)	µg/m ³	IS 5182(Part-23): 2006	58.72	100 Max
4	Particulate Matter (PM 2.5)	µg/m ³	IS 5182(Part-24): 2019	29.23	60 Max
5	Ozone (O ₃)	µg/m ³	IS 5182(Part-9): 1974	14.22	180 Max
6	Lead (pb)	µg/m ³	IS 5182(Part-22): 2004	BDL(DL : 0.02)	1 Max
7	Carbon Monoxide (CO)	mg/m ³	IS 5182(Part-10):	BDL(DL : 1.0)	2 Max



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

- The test result related only to the items tested.
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TEST REPORT

ORIGINAL

Page 2 of 2

Test Report No. : TR02EN-2603120331

NABL ULR No. : TC1573026000014174F

S. No.	Parameter	Measuring Unit	Method	Result	Specification
			1999		
8	Ammonia (NH ₃)	µg/m ³	IS 5182(Part-25): 2018	6.61	400 Max
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182(Part-11): 2006	BDL(DL : 1.0)	5 Max
10	Benzo (a) Pyrene (Particulate Phase only)	ng/m ³	IS 5182(Part-12): 2004	BDL(DL : 1.0)	1 Max
11	Arsenic (As)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	6 Max
12	Nickel (Ni)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	20 Max

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser, Low Flow Air Sampler. BDL: Below Detection Limit. DL: Detection Limit.

REMARKS : The above sample complies with NAAQ norms with respect to the above tested Parameters.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

Disclaimer :

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TEST REPORT

ORIGINAL

Page 1 of 2

Test Report No. : TR02EN-2603120329
NABL ULR No. : TC1573026000014172F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2603050150	Received On : 05/03/2026
Sample Name : Ambient Air Quality	Commenced On : 05/03/2026
Sample Condition : Good	Completed On : 12/03/2026
	Date of Report : 12/03/2026

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep
Sampling Location : South East (Infront of LT Panel)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/05/03/2026
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , -	: 04.03.26-05.03.26
(b) Duration of Monitoring , minutes	: 1440
(c) Avg. Ambient Temperature , °C	: 29
(d) Relative Humidity , %(Avg.)	: 72
(e) Sky Appearance , -	: Clear Sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Ambient Air Quality Parameters					
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182(Part-2): 2001	7.40	80 Max
2	Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182(Part -6): 2006	15.53	80 Max
3	Particulate Matter (PM 10)	µg/m ³	IS 5182(Part-23): 2006	57.15	100 Max
4	Particulate Matter (PM 2.5)	µg/m ³	IS 5182(Part-24): 2019	27.16	60 Max
5	Ozone (O ₃)	µg/m ³	IS 5182(Part-9): 1974	13.84	180 Max
6	Lead (pb)	µg/m ³	IS 5182(Part-22): 2004	BDL(DL : 0.02)	1 Max
7	Carbon Monoxide (CO)	mg/m ³	IS 5182(Part-10):	BDL(DL : 1.0)	2 Max



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

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TEST REPORT

ORIGINAL

Page 2 of 2

Test Report No. : TR02EN-2603120329

NABL ULR No. : TC1573026000014172F

S. No.	Parameter	Measuring Unit	Method	Result	Specification
			1999		
8	Ammonia (NH ₃)	µg/m ³	IS 5182(Part-25): 2018	6.44	400 Max
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182(Part-11): 2006	BDL(DL : 1.0)	5 Max
10	Benzo (a) Pyrene (Particulate Phase only)	ng/m ³	IS 5182(Part-12): 2004	BDL(DL : 1.0)	1 Max
11	Arsenic (As)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	6 Max
12	Nickel (Ni)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	20 Max

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser, Low Flow Air Sampler. BDL: Below Detection Limit. DL: Detection Limit

REMARKS : The above sample complies with NAAQ norms with respect to the above tested Parameters.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

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TEST REPORT

ORIGINAL

Page 1 of 2

Test Report No. : TR02EN-2603120328
NABL ULR No. : TC1573026000014171F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2603050151	Received On : 05/03/2026
Sample Name : Ambient Air Quality	Commenced On : 05/03/2026
Sample Condition : Good	Completed On : 12/03/2026
Sample Details (if any)	Date of Report : 12/03/2026

Sample Submission Type : Sampled by Lab Rep
Sampling Location : North East (Near KIDO)
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/05/03/2026
Test Report as per : NAAQ Norms

S. No. Sampling Information:

(a) Date of Monitoring , -	: 04.03.26-05.03.26
(b) Duration of Monitoring , minutes	: 1440
(c) Avg. Ambient Temperature , °C	: 29
(d) Relative Humidity , %(Avg.)	: 72
(e) Sky Appearance , -	: Clear Sky

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Ambient Air Quality Parameters					
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182(Part-2): 2001	7.19	80 Max
2	Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182(Part -6): 2006	15.46	80 Max
3	Particulate Matter (PM 10)	µg/m ³	IS 5182(Part-23): 2006	56.89	100 Max
4	Particulate Matter (PM 2.5)	µg/m ³	IS 5182(Part-24): 2019	26.41	60 Max
5	Ozone (O ₃)	µg/m ³	IS 5182(Part-9): 1974	13.77	180 Max
6	Lead (pb)	µg/m ³	IS 5182(Part-22): 2004	BDL(DL : 0.002)	1 Max
7	Carbon Monoxide (CO)	mg/m ³	IS 5182(Part-10):	BDL(DL : 1.0)	2 Max



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

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TEST REPORT

ORIGINAL

Page 2 of 2

Test Report No. : TR02EN-2603120328

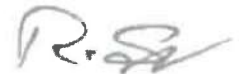
NABL ULR No. : TC1573026000014171F

S. No.	Parameter	Measuring Unit	Method	Result	Specification
			1999		
8	Ammonia (NH ₃)	µg/m ³	IS 5182(Part-25): 2018	6.43	400 Max
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182(Part-11): 2006	BDL(DL : 1.0)	5 Max
10	Benzo (a) Pyrene (Particulate Phase only)	ng/m ³	IS 5182(Part-12): 2004	BDL(DL : 1.0)	1 Max
11	Arsenic (As)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	6 Max
12	Nickel (Ni)	ng/m ³	USEPA Method IO 3.4	BDL(DL : 2.0)	20 Max

NOTE : NAAQ: National Ambient Air Quality, Instrument used: Respirable Dust Sampler(RDS), Fine Dust Sampler(FDS), Multigas Analyser, Low Flow Air Sampler. BDL: Below Detection Limit. DL: Detection Limit

REMARKS : The above sample complies with NAAQ norms with respect to the above tested Parameters.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 12/03/2026

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TEST REPORT

Test Report No. : TR02EN-2601301356
NABL ULR No. : TC157302600006013F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Received On : 24/01/2026
Commenced On : 24/01/2026
Completed On : 29/01/2026
Date of Report : 30/01/2026

Sample Registration No. : SR02EN-2601241067

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-I 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.9	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	273.92	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	80.3	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	115	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.4	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	26.21	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	6763	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	8.9	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****

Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

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TEST REPORT

Test Report No. : TR02EN-2601301357
NABL ULR No. : TC157302600006014F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241068

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-2 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	16.2	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	253.08	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	74.6	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	107	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.0	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	28.17	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	6753	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	8.5	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit. DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****

R. S.
Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

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TEST REPORT

Test Report No. : TR02EN-2601301358
NABL ULR No. : TC157302600006015F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241069

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-3 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	16.4	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	264.98	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	83.8	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	98	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.1	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	27.93	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	6940	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	8.6	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser. Stack Sampler. BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****

Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer:

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TEST REPORT

Test Report No. : TR02EN-2601301350
NABL ULR No. : TC1573026000006007F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241070

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-4 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.2	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	297.74	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	86.1	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	109	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.5	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	29.27	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	7123	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	9.0	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****

Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

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TEST REPORT

Test Report No. : TR02EN-2601301351
NABL ULR No. : TC1573026000006008F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town. 100ft Road. Taramani
Chennai. 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241071

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-5 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CIIN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.7	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	285.83	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	78.0	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	102	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.2	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	27.51	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	6905	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	8.6	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board, Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****

Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

- The test result related only to the items tested.
- The test report shall not be reproduced in full or part without the written approval of ITC Labs, Chennai.
- The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers.



TEST REPORT

Test Report No. : TR02EN-2601301352
NABL ULR No. : TC1573026000006009F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241072

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-6 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.9	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	309.64	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	88.4	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	119	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	2.9	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	30.44	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	6686	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	8.7	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler. BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****

Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

- The test result related only to the items tested.
- The test report shall not be reproduced in full or part without the written approval of ITC Labs, Chennai.
- The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers.



TEST REPORT

Test Report No. : TR02EN-2601301353
NABL ULR No. : TC1573026000006010F

Received On : 24/01/2026
Commenced On : 24/01/2026
Completed On : 29/01/2026
Date of Report : 30/01/2026

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241073
Sample Name : Stack Emission
Sample Condition : Good
Sample Details (if any)
Sample Submission Type : Sampled by Lab Rep
Sampling Location : DG-7 2000 KVA
Environment Condition : Good
Sampling Procedure : ITC/CHN/GSOP/001
Customer Reference : Test Request Form/24/01/2026
Test Report as per : TNPCB Norms

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.4	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	279.87	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	90.7	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	121	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.3	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	28.72	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	7085	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	9.3	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler. BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

- The test result related only to the items tested.
- The test report shall not be reproduced in full or part without the written approval of ITC Labs, Chennai.
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TEST REPORT

Test Report No. : TR02EN-2601301354
NABL ULR No. : TC1573026000006011F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai. 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241074

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-8 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.1	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	267.96	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	82.6	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	114	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.6	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	30.17	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	7247	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	9.4	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****



Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

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- The test report shall not be reproduced in full or part without the written approval of ITC Labs, Chennai.
- The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers.



TEST REPORT

Test Report No. : TR02EN-2601301355
NABL ULR No. : TC157302600006012F

Issued To :

Jones Lang LaSalle Building Operations Pvt Ltd
DLF Down Town, 100ft Road, Taramani
Chennai, 600113
Tamil Nadu, India

Sample Registration No. : SR02EN-2601241075

Sample Name : Stack Emission

Sample Condition : Good

Sample Details (if any)

Sample Submission Type : Sampled by Lab Rep

Sampling Location : DG-9 2000 KVA

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/24/01/2026

Test Report as per : TNPCB Norms

Received On : 24/01/2026

Commenced On : 24/01/2026

Completed On : 29/01/2026

Date of Report : 30/01/2026

S. No. Sampling Information:

(a) Date of Monitoring : 24.01.26

S. No.	Parameter	Measuring Unit	Method	Result	Specification
Discipline : Chemical					
Group : Atmospheric Pollution					
(I) Stack Emission					
1	Oxygen as O ₂	%	IS 13270	15.5	Not Available
2	Oxides of Nitrogen as NO _x	ppm	IS 11255: (Part-7)	294.76	710 Max
3	Carbon Monoxide as CO	mg/Nm ³	ITC/CHN/INS/SOP/070	87.2	150 Max
4	Stack Temperature	°C	IS 11255: (Part-3)	117	Not Available
5	Carbon Dioxide as CO ₂	%	IS 13270	3.5	Not Available
6	Particulate Matter as PM	mg/Nm ³	IS 11255: (Part-1)	29.79	75 Max
7	Flow Rate	Nm ³ /hr.	IS 11255: (Part-3)	6978	Not Available
8	Velocity	m/s	IS 11255: (Part-3)	9.0	Not Available
9	Sulphur Dioxide as SO ₂	mg/Nm ³	IS 11255 (Part-2)	BDL (DL: 4.0)	Not Available
10	Non Methane Hydrocarbon as NMHC	mg/Nm ³	USEPA Method 25	BDL (DL: 0.5)	100 Max

NOTE : TNPCB: Tamilnadu Pollution Control Board. Instrument used: Fluegas Analyser, Stack Sampler, BDL: Below Detection Limit, DL: Detection Limit

REMARKS : The above sample complies with TNPCB Norms respect to the above tests.

*****End of Report*****



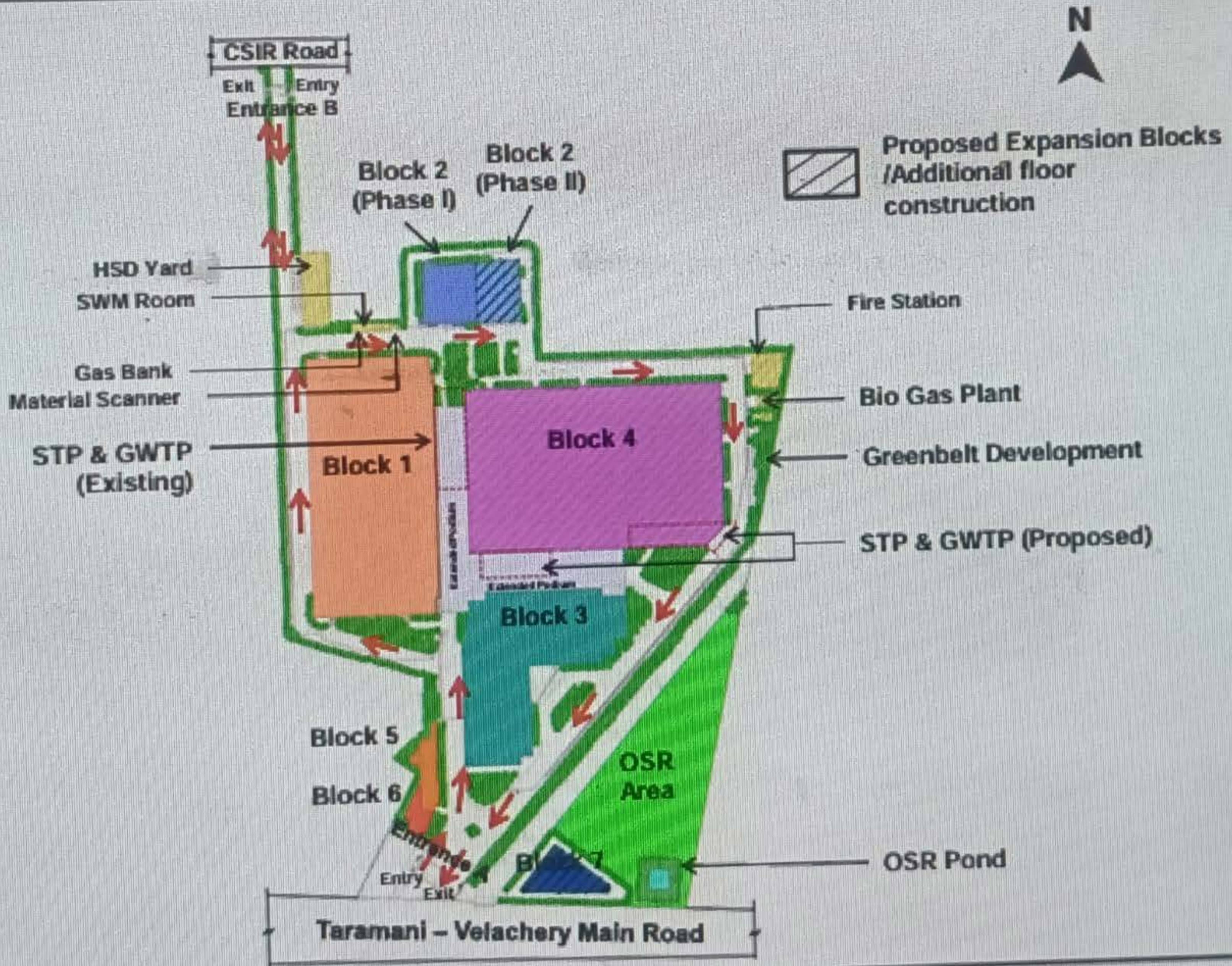
Authorised by
Name : Sakthivel
Discipline : Chemical
Date : 30/01/2026

Disclaimer :

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- The test report shall not be reproduced in full or part without the written approval of ITC Labs, Chennai.
- The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers.

Annexure-III
Layout plan

Master Plan Layout



Annexure-IV
PESO License



M/s.DLF Info Park Developers (Chennai) Limited

Date: 22-02-2018

Old No.828,New
No.268,Poonamallee Road, Kilpauk,
Chennai-600010.

Valid Upto: 21-02-2026

No Objection Certificate for Height Clearance

1. This NOC is issued by Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations.

2. This office has no objection to the construction of the proposed structure as per the following details:

NOC ID :	CHEN/SOUTH/B/021118/280666
Applicant Name*	C. Selvaraj
Site Address*	Block C located in T.S.No.1/5 and 1/9 of Thiruvanmiyur village Formerly Mylapor-Triplicane Taluk now Velachery Taluk and in S.Nos.300/2B,300/2C and 301/3 of kottivakkam Village formerly Tambaram Taluk now Sholinganallur Taluk, Velachery and Sholinganallur Taluk/Thiruvanmiyur a, Chennai, Tamil Nadu
Site Coordinates*	80 14 52.46-12 59 03.33, 80 14 52.46-12 59 05.53, 80 14 53.24-12 59 04.43, 80 14 54.02-12 59 03.03, 80 14 54.02-12 59 05.53,
Site Elevation in mtrs AMSL as submitted by Applicant*	4 M
Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL)	124M

*As provided by applicant

3. This NOC is subject to the terms and conditions as given below:

a. Permissible Top elevation has been issued on the basis of Site coordinates and Site Elevation submitted by Applicant. AAI neither owns the responsibility nor authenticates the correctness of the site coordinates & site elevation provided by the applicant. If at any stage it is established that the actual data is different, this NOC will stand null and void and action will be taken as per law. The office in-charge of the concerned aerodrome may initiate action under the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994”

b. The Structure height (including any superstructure) shall be calculated by subtracting the Site elevation in AMSL from the Permissible Top Elevation in AMSL i.e. Maximum Structure Height = Permissible Top Elevation minus (-) Site Elevation.

c. The issue of the 'NOC' is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994.

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा.वि.प्रा. परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027

दूरभाष संख्या : 44-2256 1234

Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027

Tel. No: 44-2256 1234



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

- d. No radio/TV Antenna, lighting arresters, staircase, Mumtee, Overhead water tank and attachments of fixtures of any kind shall project above the Permissible Top Elevation of 124M, as indicated in para 2.
- e. Only use of oil fired or electric fired furnace is permissible, within 8 KM of the Aerodrome Reference Point.
- f. The certificate is valid for a period of 8 years from the date of its issue. One time revalidation without assessment may be allowed, provided construction work has commenced, subject to the condition that such request shall be made within the validity period of the NOC and the delay is due to circumstances which are beyond the control of the developer.
- g. No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time, during or after the construction of the building. No activity shall be allowed which may affect the safe operations of flights
- h. The applicant will not complain/claim compensation against aircraft noise, vibrations, damages etc. caused by aircraft operations at or in the vicinity of the airport.
- i. Day markings & night lighting with secondary power supply shall be provided as per the guidelines specified in chapter 6 and appendix 6 of Civil Aviation Requirement Series 'B' Part I Section 4, available on DGCA India website: www.dgca.nic.in
- j. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This NOC for height clearances is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.
- k. This NOC has been issued w.r.t. the Civil Airports. Applicant needs to seek separate NOC from Defence, if the site lies within their jurisdiction.
- l. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.
- m. In case of any dispute w.r.t site elevation and/or AGL height, top elevation in AMSL shall prevail.

Chairman NOC Committee

Region Name: SOUTH

Address: General Manager Airports
Authority of India, Regional
Headquarter, Southern Region,
Chennai Airport,
Chennai-600027 (Tamil Nadu)

Email ID: vomm.noc@aai.aero

Contact No: 044-22560046

K Janardanan
Jt.General Manager(ATM-NOC)

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा.वि.प्रा. परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027

दूरभाष संख्या : 44-2256 1234

Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027

Tel. No: 44-2256 1234



M/s.DLF info Park Developers (Chennai) Limited

Date: 22-02-2018

Old No. 828, New
No.268,Poonamallee High Road,
Kilpauk, Chennai-600010.

Valid Upto: 21-02-2026

No Objection Certificate for Height Clearance

1. This NOC is issued by Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations.

2. This office has no objection to the construction of the proposed structure as per the following details:

NOC ID :	CHEN/SOUTH/B/021118/280665
Applicant Name*	C. Selvaraj
Site Address*	Block A and B Located in T.S.No.1/5 and 1/9 of Thiruvanmiyur Village Formerly Mylapore-Triplicane Taluk now Velachery Taluk and in S.Nos.300/2B,300/2C and 301/3of Kottivakkam Village Formerly Tambaram Taluk now sholinganallur Taluk,Velachery and Sholinganallur Taluk/Thiruvanmiyur a,Chennai,Tamil Nadu
Site Coordinates*	80 14 49.65-12 58 58.07, 80 14 49.65-12 59 02.93, 80 14 50.74-12 59 00.50, 80 14 51.83-12 58 58.07, 80 14 51.83-12 59 02.93,
Site Elevation in mtrs AMSL as submitted by Applicant*	4 M
Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL)	124M

*As provided by applicant

3. This NOC is subject to the terms and conditions as given below:

a. Permissible Top elevation has been issued on the basis of Site coordinates and Site Elevation submitted by Applicant. AAI neither owns the responsibility nor authenticates the correctness of the site coordinates & site elevation provided by the applicant. If at any stage it is established that the actual data is different, this NOC will stand null and void and action will be taken as per law. The office in-charge of the concerned aerodrome may initiate action under the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994”

b. The Structure height (including any superstructure) shall be calculated by subtracting the Site elevation in AMSL from the Permissible Top Elevation in AMSL i.e. Maximum Structure Height = Permissible Top Elevation minus (-) Site Elevation.

c. The issue of the 'NOC' is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules,1994.

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा.वि.प्रा. परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027

दूरभाष संख्या : 44-2256 1234

Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027

Tel. No: 44-2256 1234



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

- d. No radio/TV Antenna, lighting arresters, staircase, Mumtee, Overhead water tank and attachments of fixtures of any kind shall project above the Permissible Top Elevation of 124M, as indicated in para 2.
- e. Only use of oil fired or electric fired furnace is permissible, within 8 KM of the Aerodrome Reference Point.
- f. The certificate is valid for a period of 8 years from the date of its issue. One time revalidation without assessment may be allowed, provided construction work has commenced, subject to the condition that such request shall be made within the validity period of the NOC and the delay is due to circumstances which are beyond the control of the developer.
- g. No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time, during or after the construction of the building. No activity shall be allowed which may affect the safe operations of flights
- h. The applicant will not complain/claim compensation against aircraft noise, vibrations, damages etc. caused by aircraft operations at or in the vicinity of the airport.
- i. Day markings & night lighting with secondary power supply shall be provided as per the guidelines specified in chapter 6 and appendix 6 of Civil Aviation Requirement Series 'B' Part I Section 4, available on DGCA India website: www.dgca.nic.in
- j. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This NOC for height clearances is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.
- k. This NOC has been issued w.r.t. the Civil Airports. Applicant needs to seek separate NOC from Defence, if the site lies within their jurisdiction.
- l. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.
- m. In case of any dispute w.r.t site elevation and/or AGL height, top elevation in AMSL shall prevail.

Chairman NOC Committee

Region Name: SOUTH

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Headquarter, Southern Region,
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Email ID: vomm.noc@aai.aero

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क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा.वि.प्रा. परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027

दूरभाष संख्या : 44-2256 1234

Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027

Tel. No: 44-2256 1234



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हड्डोउस रोड, नुंगम्बक्कम

चेन्नै - 600006

A & D - Wing, Block 1-8, IIInd Floor, Shastri Bhavan,

26 Haddous Road, Nungambakkam,

Chennai - 600006

E-mail : jtccechennai@explosives.gov.in

Phone/Fax No : 044 - 28287118,28281023,28281041,28287119/28284848

संख्या /No. : P/SC/TN/15/2953 (P504952)

दिनांक /Dated : 07/05/2024

सेवा में /To,

M/s. DLF INFO PARK DEVELOPERS (CHENNAI) LTD.,
Old no. 828&828A, New No. 268&268A,,
Sri Ranga Poonamallee High Road, Kilpauk,
Chennai,
Chennai,
Taluka: Chennai,
District: CHENNAI,
State: Tamil Nadu
PIN: 600010

विषय /Sub : Survey No. 1/5, 1/9, 300/2B, 300/2C, 301/3, --, Thiruvanmiyur, Chennai, Taluka: VELACHERRY, District: CHENNAI, State: Tamil Nadu, PIN: 600113 में पेट्रोलियम वर्ग B का अधिष्ठापन -अनुज्ञप्ति जारी करने के बारे में।

Petroleum Class B Installation at Survey No. 1/5, 1/9, 300/2B, 300/2C, 301/3, --, Thiruvanmiyur, Chennai, Taluka: VELACHERRY, District: CHENNAI, State: Tamil Nadu, PIN: 600113 Grant of License regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक OIN1667706 दिनांक 06/05/2024 का अवलोकन करें।

Please refer to your letter No. OIN1667706 dated 06/05/2024

विषयान्तर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक 31/12/2033 तक वैध अनुज्ञप्ति संख्या P/SC/TN/15/2953 (P504952) दिनांक 07/05/2024 भेजी जा रही है।

Licence No. P/SC/TN/15/2953 (P504952) dated 07/05/2024 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2033 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञप्त क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	270.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	270.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें और अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्ति की तारीख या उससे पूर्व इस कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for further renewal of the licence to this office, so as to reach on or before the date on which licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

((डा.टी.एल.थनुलिंगम)
(Dr. T. L. THANULINGAM))
संयुक्त मुख्य विस्फोटक नियंत्रक
Jt. Chief Controller of Explosives
चेन्नै/Chennai

Copy forwarded to :-

1. The Commissioner of Police, CHENNAI(Tamil Nadu) with reference to his NOC No Rc.No. E2(2)/61/9395/2024 NOC 04/2024 Dated 02/05/2024

Jt. Chief Controller of Explosives
Chennai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट <http://peso.gov.in> देखें)

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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Digitally signed by Dr T L THANULINGAM
Reason: Licence No. : P/SC/TN/15/2953
Location:South Circle Office [P504952]
Date:07-05-2024 12:06:00 PM

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/SC/TN/15/2953(P504952)

फीस रूप (Fee Rs.) 16000/- per year

M/s. DLF INFO PARK DEVELOPERS (CHENNAI) LTD., Old no. 828&828A, New No. 268&268A,, Sri Ranga Poonamallee High Road, Kilpauk, Chennai, Chennai, Taluka: Chennai, District: CHENNAI, State: Tamil Nadu, PIN: 600010 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 270.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/SC/TN/15/2953(P504952) तारीख 07/05/2024 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. DLF INFO PARK DEVELOPERS (CHENNAI) LTD., Old no. 828&828A, New No. 268&268A,, Sri Ranga Poonamallee High Road, Kilpauk, Chennai, Chennai, Taluka: Chennai, District: CHENNAI, State: Tamil Nadu, PIN: 600010 valid only for the importation and storage of 270.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/SC/TN/15/2953(P504952) dated 07/05/2024 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2033 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2033

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	270.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	270.00 KL

May 7, 2024

Jt. Chief Controller of Explosives
SC, Chennai

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: 1/5, 1/9, 300/2B, 300/2C, 301/3, --, Thiruvanmiyur, Chennai, Taluka: VELACHERRY, District: CHENNAI, State: Tamil Nadu, PIN: 600113 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 4 Under Ground tank(s) for CLASS B सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Survey No: 1/5, 1/9, 300/2B, 300/2C, 301/3, --, Thiruvanmiyur, Chennai, Taluka: VELACHERRY, District: CHENNAI, State: Tamil Nadu, PIN: 600113 and consists of 4 Under Ground tank(s) for CLASS B together with connected facilities.

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signature.

अनुज्ञप्ति संख्या-(Licence No.) P/SC/TN/15/2953 (P504952)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या नवीकरण की तारीख समाप्ति की तारीख अनुज्ञापन प्राधिकारी के हस्ताक्षर और उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी |

Date of
Renewal

Date of
Expiry of license

स्टाम्प
Signature and office stamp of the
licencing authority.

This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चात्तवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा |

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

Note:-This is system generated document does not require signature.



K.Dis.No.3313/C1/2025
Dated.14.03.2025

O/o.the Director of Fire & Rescue Service,
No.17, Rukmani Lakshmipathi Salai,
Egmore, Chennai – 600 008.

Licence No.170/2025 (Issue)

- Ref: (1) Online Application from the **M/s. DLF Info Park Developers Chennai Limited, Chennai, Online Token No.268310**, Dated:10.03.2025.
- (2) Letter R.C.No.1130/C/2025, dated:13.03.2025 from the Chairman, MSB Inspection Committee, **Northern Region, Chennai.**

With reference to the letter first cited, the Fire Licence is **issued** as under, based on the recommendations in the reference 2nd cited.

FIRE & RESCUE SERVICES LICENCE

Fire Licence is hereby **issued** under section 13 of the Tamil Nadu Fire and Rescue Service Act 1985 to the Multi-Storied building classified as **Group E Business Building, Sub-Division E-3 Computer Installations and Group H Storage Building of M/s. DLF Info Park Developers Ltd., IT/ITES business building 4 blocks consisting of extended combined basement floor with block 1, 3 & 4 (block 4 (MLCP) is under construction and it is not include in the license). Block 1: Stilt Floor to 3rd floor (parking) + 4th floor to 19th floor (part) IT/ITES office purpose with the height of 79.72 meters. Block 2: Ground floor + 2 floors (utility purpose) with the height of 21.3 meters. Block 3: Stilt floor + 1st floor to 3rd floor (parking) + 4th floor to 17th floor IT/ITES purpose with the height of 75.53 meters at Taramani Road, Chennai - 600 041 comprised in T.S.No.1/5 & 1/9, Block No.7 of Thiruvanmiyur Village and S.No.300/2B, 300/2C & 301/3 of**

Kottivakkam Village at Taramani Road, Chennai subject to the following conditions and such other conditions as may be prescribed from time to time. This Licence is valid for **THREE YEARS** from **14.03.2025** to **13.03.2028** and should be renewed on **14.03.2028**.

CONDITIONS

1. Basement should not be used for residential purposes.
2. No service duct shafts should be extended in to the basement level.
3. Basement should not be used for theatre, assembly halls, exhibition halls, club rooms, gymnasiums and restaurants.
4. Kitchens, canteen, pantry or dining are not allowed in the basement.
5. Basement should not be used for having a substation or oil transformer.
6. Basement should not be used for storing any combustible material.
7. Any material which involves highly corrosive, toxic or noxious alkalis, acids or other liquids or chemicals producing flame, fumes, and explosive, poisonous irritant or corrosive gases should not be kept in the basement.
8. Periodical maintenance should always be ensured to keep all fire protection equipment and systems in good working condition.
9. "Mock drill" should be periodically conducted. The date of conduct should be informed to the District Officer, Chennai City North District well in advance to enable the team to make suggestions, if any.
10. Trained fire personnel should be available to operate the systems in case of any emergency.
11. All fire fighting equipment should always be kept in good working condition at all times.
12. Any erection of a permanent or temporary structure should be intimated to this Fire and Rescue Services Department.
13. With reference to air-conditioning it should not exceed the electricity board load on any account.
14. Available set back area on all sides should be maintained to withstand the weight of 45 tons of fire fighting vehicle.
15. House keeping / dumping of waste material any where should be avoided. Dust bins should be cleared everyday.
16. Emergency fire exit, door should open from the floor to staircase only and not the other way round. The door should be in red reflector & arrow marks should commensurate with the gradient of staircase.

17. Do's & don'ts in times of emergencies should be available in a laminated hanging pad or otherwise in the telephone operator's desk as well as in the CE or emergency in charge of the officer's desk.
18. Alternate staircase should be kept free without any obstruction.
19. All staircases should be kept open during office hours and should be kept usable at any point of emergency.
20. Fire order / contingency plan should be prepared and displayed in each floor. It should also contain the rescue team members name, designation and contact number.
21. As per section 3.2 of BIS 12459, 1988 – code of practice for fire safety in cable regularization, 1m transparent fire retardant coatings shall be applied to all cables at termination points in electrical panels and all cables inside the distribution boxes.


for Director,
Fire and Rescue Services,
Tamil Nadu.

To:

M/s. DLF Info Park Developers Ltd.,
Taramani Road, Chennai - 600 041
comprised in T.S.No.1/5 & 1/9, Block No.7 of
Thiruvanmiyur Village and S.No.300/2B, 300/2C & 301/3 of
Kottivakkam Village at Taramani Road, Chennai.



Copy to:

The Joint Director, Fire and Rescue Services,
Northern Region, Chennai.

Annexure-V
Copy of Consent to Establish

Category of the Industry :

RED

CONSENT ORDER NO. 2001231181786 DATED: 25/08/2020.

PROCEEDINGS NO.T2/TNPCB/F.2553CHN/RL/CHN/A/2020 DATED: 25/08/2020

SUB: TNPC Board-Consent for Establishment-M/s. DLF INFO PARK DEVELOPERS CHENNAI LIMITED , S.F. No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9, THIRUVANMIYUR village, Velacheri Taluk and Chennai District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

REF: 1. Unit's Application for CTE (new) dated: 18.08.2020
2. IR.No : F.2553CHN/RL/AEE/CHN/2020 dated 19/08/2020
3. Board's (Technical Sub Committee) Resolution No.181-06 dated:24.07.2020

Consent to establish or take steps to establish is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act,1981, as amended in 1987 and the Rules and Orders made there under to

The Director,
M/s . DLF INFO PARK DEVELOPERS CHENNAI LIMITED
S.F No.T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9,
THIRUVANMIYUR Village,
Velacheri Taluk,
Chennai District.

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9,
THIRUVANMIYUR Village,
Velacheri Taluk,
Chennai District.

This Consent to establish is valid upto **January 21, 2027**, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

G. Gopalakrishnan

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Digitally signed by G. Gopalakrishnan
DN: cn=G, ou=Tamilnadu Pollution Control Board, ou=Engineering Department, postalCode=600032,
st=Tamil Nadu,
2.5.4.20=c4576d935eb27e47bca345ead344cd5699a20a871b2333027b639d70e16a,
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Gopalakrishnan
Date: 2020.08.25 11:53:47 +05'30'

To
The Director,
M/s.DLF INFO PARK DEVELOPERS CHENNAI LIMITED,
Old No. 828 & 828A, New No. 268 & 268A, Sri Ranga, Poonamallee, High Road, Kilpauk, Chennai,
Pin: 600010

Copy to:

- 1.The Commissioner, CHENNAI-Corporation, Velacheri Taluk, Chennai District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, CHENNAI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to establish is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Construction of "DLF IT PARK" with 8 Blocks each of Ground floor + 23 Floors with common basement of three levels with Total built-up area of	835650	sq.m

2. This consent to establish is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
1	DG -2000 kVA	Stack	126	6233.8
2	DG -2000 kVA	Stack	126	6233.8
3	DG -2000 kVA	Stack	126	6233.8
4	DG -2000 kVA	Stack	126	6233.8
5	DG -2000 kVA	Stack	126	6233.8
6	DG -2000 kVA	Stack	126	6233.8
7	DG -2000 kVA	Stack	126	6233.8
8	DG -2000 kVA	Stack	126	6233.8
9	DG -2000 kVA	Stack	126	6233.8
10	DG -2000 kVA	Stack	126	6233.8
11	DG -2000 kVA	Stack	126	6233.8
12	DG -2000 kVA	Stack	126	6233.8
13	DG -2000 kVA	Stack	126	6233.8
14	DG -2000 kVA	Stack	126	6233.8
15	DG -2000 kVA	Stack	126	6233.8
16	DG -2000 kVA	Stack	126	6233.8
17	DG -2000 kVA	Stack	126	6233.8
18	DG -2000 kVA	Stack	126	6233.8
19	DG -2000 kVA	Stack	126	6233.8
20	DG -2000 kVA	Stack	126	6233.8
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	20 No's DG-Set of 2000kVA	Noise	Acoustic Enclosures	

3. **Special Additional Conditions:**

The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

4. **Additional Conditions:**

1. The unit shall provide APC/ acoustic measures for the DG sets to be provided as proposed (2000 KVA – 20 Nos) so as to satisfy the AAQ/Emission standards prescribed by the Board.
2. The unit shall adhere to AAQ/Stack Emission/ANL standards prescribed by the Board.
3. The unit shall not create any nuisance to the nearby public during the construction phase of the project.
4. The unit shall comply with the Hon'ble National Green Tribunal order dated 06/08/2019 in OA. No 681/2018 for DG sets already operational, ensure usage of either of the two options: (a) use of retrofitted emission control equipment having a minimum specified PM capturing efficiency of at least 70%, type approved by one of the 5 CPCB recognized labs; or (b) shifting to gas-based generators by employing new gas-based generators or retrofitting the existing DG sets for partial gas usage as part of the National Clean Air Programme(NCAP).

G. Gopalakrishnan

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st=Tamil Nadu, 2.5.4.20=5457765233546b27e7b7b2a345e4d344c2309a2a2a877b233323276e23977e16a,
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Gopalakrishnan
Date: 2020.08.21 11:54:25 +05'30'

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

G. Gopalakrishnan

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

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Date: 2020.08.25 11:54:57 +05'30'

Category of the Industry :

RED

CONSENT ORDER NO. 2001131181786 DATED: 25/08/2020.

PROCEEDINGS NO.T2/TNPCB/F.2553CHN/RL//CHN/W/2020 DATED: 25/08/2020

SUB: TNPC Board-Consent for Establishment-M/S DLF INFO PARK DEVELOPERS CHENNAI LIMITED S.F No. T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9, THIRUVANMIYUR Village, Velacheri Taluk, Chennai District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution)Act,1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

REF: 1. Unit's Application for CTE (new) dated: 18.08.2020
2. IR.No : F.2553CHN/RL/AEE/CHN/2020 dated 19/08/2020
3. Board's (Technical Sub Committee) Resolution No.181-06 dated:24.07.2020

Consent to establish or take steps to establish is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act,1974, as amended in 1988(Central Act 6 of 1974) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Director,
DLF INFO PARK DEVELOPERS CHENNAI LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.T.S.No. 300/2B, 300/2C, 301/3, Kottivakkam Viilage, Solinganallur Taluk and T.S. No.1/5, 1/9,
THIRUVANMIYUR Village,
Velacheri Taluk,
Chennai District.

This Consent to establish is valid upto **January 21, 2027**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

G. Gopalakrishnan

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Digitally signed by G. Gopalakrishnan
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Gopalakrishnan
Date: 2020.08.25 11:55:45 +05'30'

To
The Director,
M/s.DLF INFO PARK DEVELOPERS CHENNAI LIMITED,
Old No. 828 & 828A, New No. 268 & 268A, Sri Ranga, Poonamallee, High Road, Kilpauk, Chennai,
Pin: 600010

Copy to:

- 1.The Commissioner, CHENNAI-Corporation, Velacheri Taluk, Chennai District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, CHENNAI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to establish is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Construction of "DLF IT PARK" with 8 Blocks each of Ground floor + 23 Floors with common basement of three levels with Total built-up area of	835650	sq.m

2. The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

a	Sewage Treatment Plant:		
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Bar Screen Chamber (For BLACK WATER STP UNITS)	2	1* 0.6* 0.6
2.	Oil & Grease Removing Chamber	2	1.5* 1.2 *1.8
3.	Equalization Tank (For BLACK WATER STP UNITS)	2	10*6.6*3
4.	MBBR- 2 Tanks (For BLACK WATER STP UNITS)	2	5 * 5 *3
5.	Tube Settler (For BLACK WATER STP UNITS)	2	5 *5 *3
6.	Clear Water Tank (For BLACK WATER STP UNITS)	2	6.16 *5 *3
7.	Sludge holding tank (For BLACK WATER STP UNITS)	2	4.1 *4.1*3
8.	Equalization Tank(For GREY WATER TREATMENT UNITS)	2	8*6*3
9.	Settling Tank(For GREY WATER TREATMENT UNITS)	2	6.5 * 5.2 * 3
10.	Clarifier Tank (For GREY WATER TREATMENT UNITS)	2	6.5 * 5.2 * 3
11.	PSF (For GREY WATER TREATMENT UNITS)	2	1.8m dia 2.2m Ht
12.	ACF(For GREY WATER TREATMENT UNITS)	2	2.0m dia 2.2m Ht
13.	Treated Water Tank(For GREY WATER TREATMENT UNITS)	2	8*6*3
b	Effluent Treatment Plant:		
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			

3. This consent to establish is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage - 2	840.0	Utilizing for Toilet flushing
2.	Sewage 1	685.0	HVAC cooling
3.	Sewage 3	57.4	Green belt development
4.	Sewage 4	35.6	OSR
Effluent Type : Trade Effluent			

4. **Additional Conditions:**

1. The unit shall comply with the conditions imposed in the Environmental Clearance accorded by SEIAA, Tamilnadu vide Letter No. SEIAA-TN/F.6645/EC/8(b)/689/2020 dated 22/01/2020.
2. The unit shall provide 4 Nos of Sewage Treatment Plant of capacity 450 KLD, 420 KLD, 500 KLD – 2 Nos. above ground level to treat the sewage to achieve the standards prescribed by the Board.
3. The unit shall make arrangements to utilize the treated waste water of 840 KLD for Toilet flushing, 685 KLD for HVAC cooling , 57.4 KLD for green belt development and 35.6 KLD for OSR area as proposed after satisfying the standards prescribed by the Board.
4. The unit shall provide the adequate green belt area (i.e 1 Ha for 35 KLD) for the disposal of 93 KLD of Treated sewage to dispose for On land for gardening.
5. The unit shall not clean the STP tanks manually and it should be carried out only by mechanical system.
6. The unit shall provide dual plumbing system for the utilisation of treated sewage on land for gardening & toilet flushing as proposed
7. The unit shall provide EMFM with automatic computer recording facility at the inlet and outlet of the STP
8. The unit shall provide separate energy meter for the STP to be provided
9. The unit shall provide rain water harvesting system within the premises for ground water recharging.
10. The unit shall install solar panel of RoHS standards for the street lights and for office building to the extent possible
11. The unit shall furnish the permission from the CMWSSB for the supply of fresh water prior to apply for CTO.
12. The unit shall furnish the planning permission from competent authority prior to apply for CTO.
13. The unit shall provide Organic Waste Convertor for the treatment and disposal of organic waste generated from the project.
14. The unit shall develop adequate green belt with thick canopy surrounding the periphery of the project site.
15. The unit shall not use “Use and throwaway plastics” such as plastic sheets used for food wrapping, spreading on dining table etc, plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastics flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

G. Gopalakrishnan

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

Digitally signed by G. Gopalakrishnan
DN: cn=IN, o=Tamilnadu Pollution Control Board, ou=Engineering Department, postalCode=600032, st=Tamil
Nadu, 2.5.2.20=4457003336002074780ca345e4d4c0209a208f10233307639479e16a
serialNumber=3468e839d18279e6c00b0e8b6ca23d3e35a80e1b91cc279b63fcd715d517, cn=G.
Gopalakrishnan
Date: 2020.08.25 11:56:28 +0530'

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

G. Gopalakrishnan

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

Digitally signed by G. Gopalakrishnan
DN: c=IN, o=Tamilnadu Pollution Control Board, ou=Engineering Department, postalCode=600032,
st=Tamil Nadu,
2.5.4.20=c457ed335ebb27e475bca345ead344cd2609a20a871b23330276639d76e16a,
serialNumber=346b6e839d18279efc00b6b69ca23d3e35a80e1b91cc279bfb3fc0d715d517, cn=G.
Gopalakrishnan
Date: 2020.08.25 11:57:01 +05'30'

Annexure-VI

EMP Cell

ENVIRONMENTAL MANAGEMENT CELL

DLF DOWNTOWN, TARAMANI - CHENNAI

Charter of Duties of EMC

Policy Implementation

- Ensure compliance with MoEFCC's environmental clearance conditions related to energy efficiency and conservation.
- Integrate energy management into organizational policies.

Energy Conservation Measures

- Conduct regular audits to identify inefficiencies.
- Monitor energy consumption patterns and track improvements.
- Facilitate adoption of renewable energy sources like solar, wind, and biomass.
- Develop projects to reduce energy consumption

Compliance Reporting

- Prepare and submit half-yearly compliance reports to MoEFCC, CPCB, and SPCBs.
- Maintain records of energy savings and efficiency measures.

Training & Awareness

- Organize workshops and awareness programs for employees on energy conservation.
- Build a culture of sustainability within the organization.

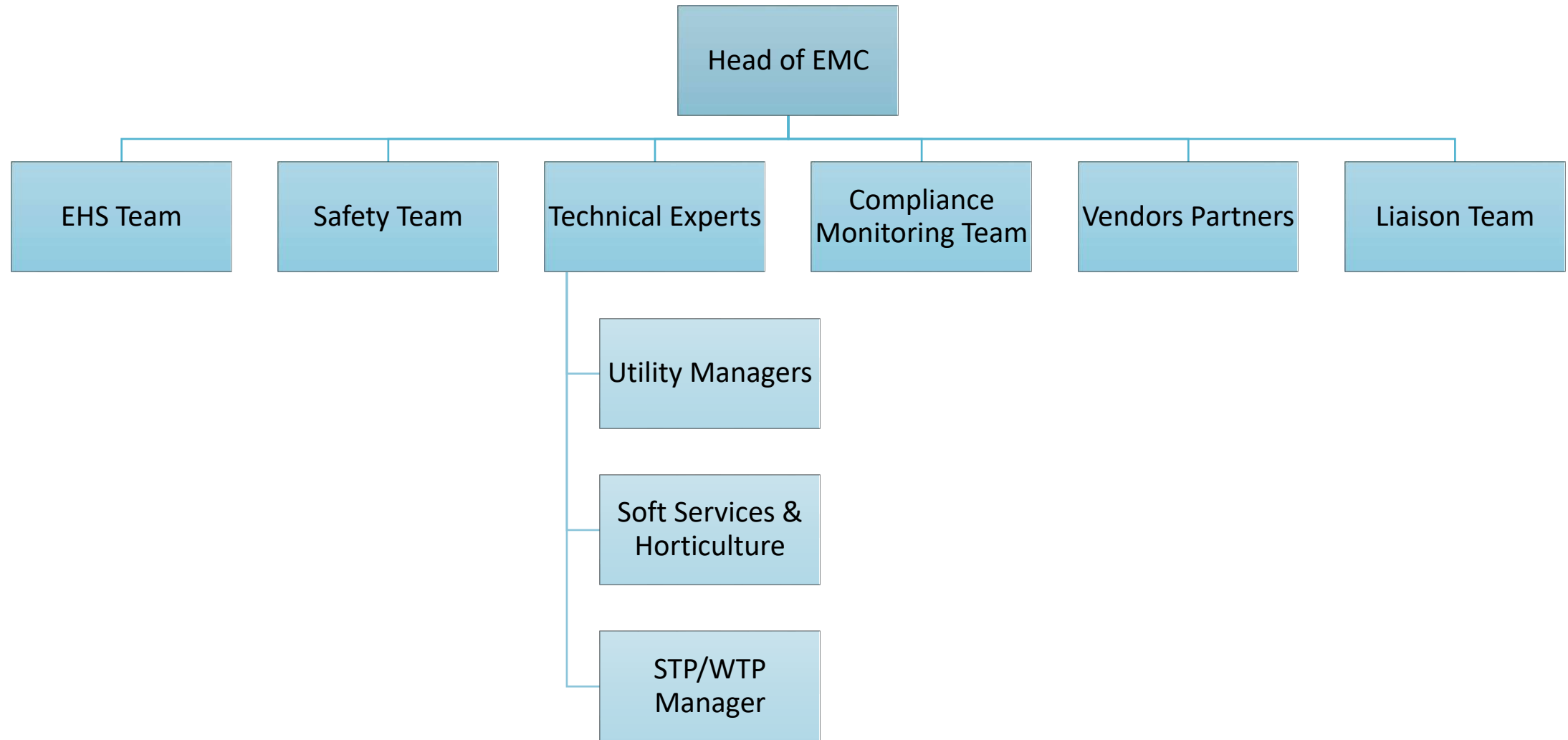
Coordination & Liaison

- Act as a nodal point for communication with MoEFCC and other regulatory bodies.
- Ensure timely responses to queries and inspections.

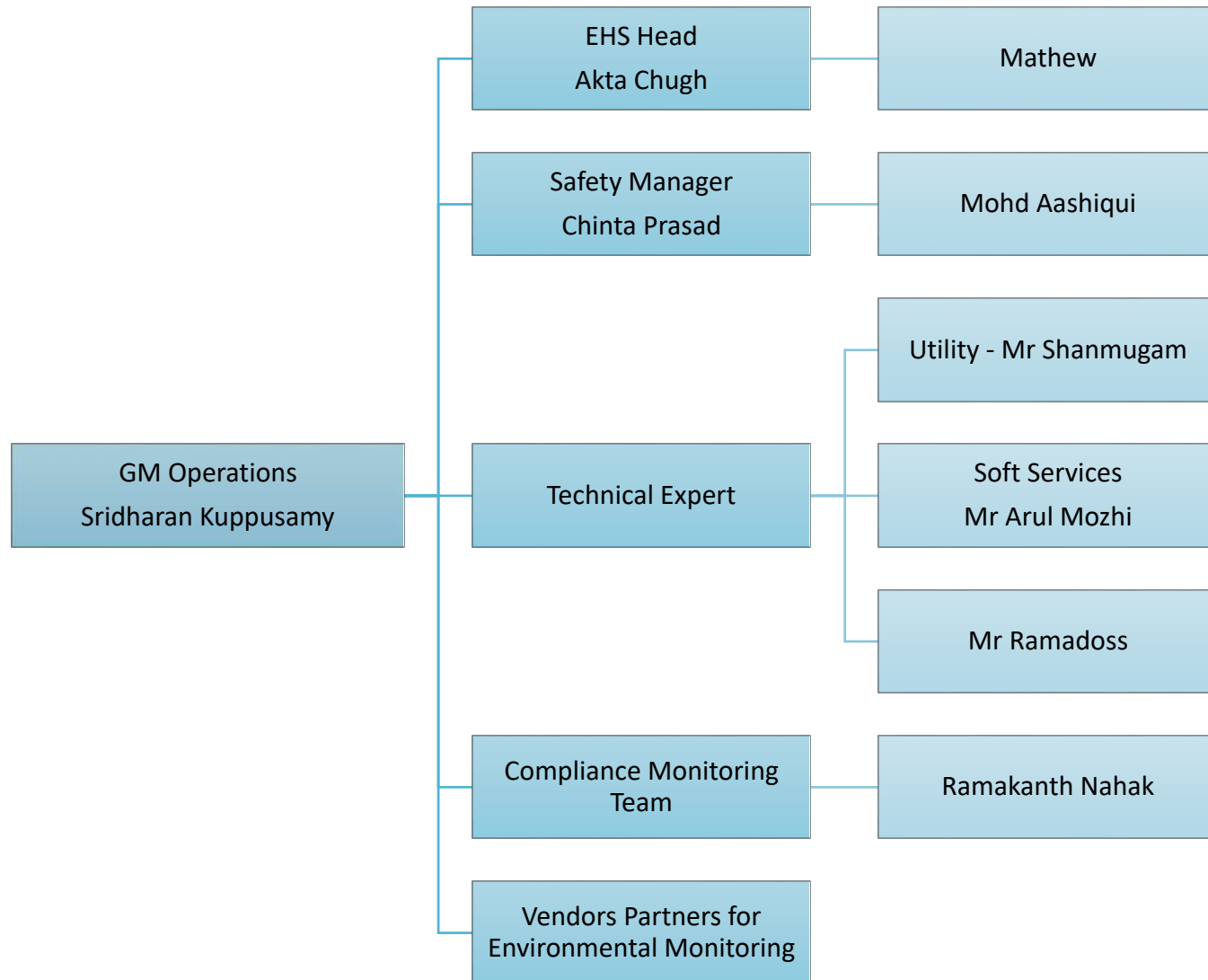
Data Management & Documentation

- Maintain detailed records of energy usage, conservation measures, and performance indicators.
- Provide transparent documentation for audits and inspections.

BASIC STRUCTURE OF EMC



Environmental Management Cell – DT Taramani



Name	Role	Education Qualification
Sridharan K	Head EMC	BE-EEE
Akta Chugh	EHS Head	
Chinta Prasad	Safety Manger	M Tech -HSE
Ramakant Nahak	Compliance Monitoring	BE - EEE
Mr Shanmugam	Utility Manager	B Tech- EEE
Mr Arul Mozhi	Soft Service	BCA
Mr Navaraja	Compliance Tracker	DEEE
Mr. Mathew	EHS Personal	BE-EEE
Mr. Ramdoss	STP/WTP Manager	BSc – Chemistry

External EIA Consultant for DLF

Certificate of Accreditation - EIA Consultant



National Accreditation Board for Education and Training

Certificate of Accreditation

Eco Services India Private Limited, Chennai

17/24, Dharmalingam Street, Sankar Nagar, Ettimadhai, Chennai - 600032

The organization is accredited under the ISO/IEC 17021 scheme for Accreditation of the Environmental Management Systems for providing EIA/EIAE services in the following sectors:

S. No.	Sector Description	Sector Size (per year)		Acc.
		Number of Clients	Revenue (INR)	
1.	Manufacturing Sector	4	1.50	A
2.	Information Technology Sector	2	1.20	A
3.	Health, Sports, Recreation Sector	2	1.20	A
4.	Energy	2	1.20	A
5.	Industrial, Extractive, Service, Construction, Transport, Storage, Distribution, Information and Communication, Waste Management, and Other Sectors	2	1.20	A
6.	Other Sectors	2	1.20	A
7.	Total	14	7.80	A

The accreditation is valid until 31st March 2023. The accreditation is subject to the terms and conditions of the accreditation scheme. The accreditation is subject to the terms and conditions of the accreditation scheme. The accreditation is subject to the terms and conditions of the accreditation scheme.

Issue Date: May 05, 2022

Valid up to: April 30, 2023

Signature of the Head of the Accredited Organization: [Signature]

Signature of the Head of the Accreditation Board: [Signature]

QR Code: [QR Code]

Annexure-VII
Test report of STP Outlet



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : CE26-000648.001-A
 ULR No : TC500626100001354F
 Report Control No : CER0000437865

Issue Date : 05/05/2026
 JOE No : CE26-000648

Customer Provided Information

Sample Name : STP PREMEATE OUTLET WATER
 Customer Name : CBRE SOUTH ASIA PVT LTD
 Customer Address : 31000-TN454FM-DLF INFO PARK DEVELOPERS CHENNAI DFL DOWN TOWN,
 : BLOCK-A, 1/5, 1/9 900/2B, 300/2C, 301/3, TARAMANI MAIN ROAD,
 City : THIRUVANMIYUR, CHENNAI,
 Postal Code : 600113
 State : TAMIL NADU
 Country : INDIA
 Sample Qty. : 2.5L & 500ML
 Recd. :
 Sample : STP PREMEATE OUTLET WATER
 Description :
 Sample Location : STP/500KLD

Lab Provided Information

Sample Type : STP PREMEATE OUTLET WATER
 Received on : 28/04/2026
 Registered on : 28/04/2026
 Test Start-End Date : 28/04/2026 - 05/05/2026
 Sampling Date : 28.04.2026
 NABL Group : Pollution & Environment

NABL Accredited Tests

Analysis	Method	Result	Unit
DISCIPLINE: CHEMICAL			
pH at 25°C	APHA 4500-H+ B - 24th Edition: 2023 (Electrometric method)	6.86	-
Total Suspended Solids	APHA 2540 D - 24th EDITION : 2023	8.0	mg/L
Total phosphorus as P	APHA 4500-P D - 24th Edition : 2023 (Stannous chloride method)	8.14	mg/L
Total nitrogen as N (TN)	Sum of Total Kjeldahl nitrogen (TKN) + Total oxidisable nitrogen (TON)	34.1	mg/L
COD	APHA 5220 D - 24th Edition : 2023 (Closed Reflux method)	48	mg/L
Oil & Grease	APHA 5520 B - 24th Edition : 2023 (Liquid-Liquid, Partition-Gravimetric method)	<1.0	mg/L
Turbidity	IS 3025 (Part 10) : 2022, Nephelometric method	1.21	NTU
Total Hardness as CaCO3	IS 3025 (Part 21) : 2019, Clause 5. EDTA Titrimetric method	360.9	mg/L
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 2023	14.2	mg/L

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Statement of conformity, wherever required or provided, is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing.

For your valuable feedback please click on this link https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1k33NyF4vI



TC-5006

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : CE26-000648.001-A
 ULR No : TC500626100001354F
 Report Control No : CER0000437865

Issue Date : 05/05/2026
 JOE No : CE26-000648

Per pro SGS India Private Ltd



ANKITA DAS
 Section Incharge

Authorized Signatory - Biological Discipline

Per pro SGS India Private Ltd



K_MANOHARAN
 Section Incharge

Authorized Signatory - Chemical Discipline

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : CE26-000648.001-B

Issue Date : 05/05/2026

JOE No : CE26-000648

Report Control No : CER0000437865

Customer Provided Information

Sample Name : STP PREMEATE OUTLET WATER
Customer Name : CBRE SOUTH ASIA PVT LTD
Customer Address : 31000-TN454FM-DLF INFO PARK DEVELOPERS CHENNAI DFL DOWN TOWN,
 : BLOCK-A, 1/5, 1/9 900/2B, 300/2C, 301/3, TARAMANI MAIN ROAD,
City : THIRUVANMIYUR, CHENNAI,
Postal Code : 600113
State : TAMIL NADU
Country : INDIA
Sample Qty. : 2.5L & 500ML
Recd.
Sample Description : STP PREMEATE OUTLET WATER
Sample Location : STP/500KLD

Lab Provided Information

Sample Type : STP PREMEATE OUTLET WATER
Received on : 28/04/2026
Registered on : 28/04/2026
Test Start-End Date : 28/04/2026 - 05/05/2026
Sampling Date : 28.04.2026
NABL Group : Pollution & Environment

Non-Accredited tests

Analysis	Method	Result	Unit
DISCIPLINE: BIOLOGICAL E.coli	APHA 9221 F - 24th Edition : 2023	<1600	MPN/100ml

Per pro SGS India Private Ltd



ANKITA DAS
Section Incharge

Authorized Signatory - Biological Discipline

Per pro SGS India Private Ltd



K_MANOHARAN
Section Incharge

Authorized Signatory - Chemical Discipline

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : CE26-000648.002-A
ULR No : TC500626100001355F
Report Control No : CER0000437865

Issue Date : 05/05/2026
JOE No : CE26-000648

Customer Provided Information

Sample Name : STP PREMEATE OUTLET WATER
Customer Name : CBRE SOUTH ASIA PVT LTD
Customer Address : 31000-TN454FM-DLF INFO PARK DEVELOPERS CHENNAI DFL DOWN TOWN,
 : BLOCK-A, 1/5, 1/9 900/2B, 300/2C, 301/3, TARAMANI MAIN ROAD,
City : THIRUVANMIYUR, CHENNAI,
Postal Code : 600113
State : TAMIL NADU
Country : INDIA
Sample Qty. : 2.5L & 500ML
Recd.
Sample Description : STP PREMEATE OUTLET WATER
Sample Location : STP/575KLD

Lab Provided Information

Sample Type : STP PREMEATE OUTLET WATER
Received on : 28/04/2026
Registered on : 28/04/2026
Test Start-End Date : 28/04/2026 - 05/05/2026
Sampling Date : 28.04.2026
NABL Group : Pollution & Environment

NABL Accredited Tests

Analysis	Method	Result	Unit
DISCIPLINE: CHEMICAL			
pH at 25°C	APHA 4500-H+ B - 24th Edition: 2023 (Electrometric method)	7.45	-
Total Suspended Solids	APHA 2540 D - 24th EDITION : 2023	4.0	mg/L
Total phosphorus as P	APHA 4500-P D - 24th Edition : 2023 (Stannous chloride method)	2.27	mg/L
Total nitrogen as N (TN)	Sum of Total Kjeldahl nitrogen(TKN) + Total oxidisable nitrogen (TON)	39.7	mg/L
COD	APHA 5220 D - 24th Edition : 2023 (Closed Reflux method)	60	mg/L
Oil & Grease	APHA 5520 B - 24th Edition : 2023 (Liquid-Liquid,Partition-Gravimetric method)	<1.0	mg/L
Turbidity	IS 3025 (Part 10) : 2022, Nephelometric method	2.09	NTU
Total Hardness as CaCO3	IS 3025 (Part 21) : 2019, Clause 5. EDTA Titrimetric method	360.1	mg/L
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 2023	16.0	mg/L

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TC-5006

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : CE26-000648.002-A
 ULR No : TC500626100001355F
 Report Control No : CER0000437865

Issue Date : 05/05/2026
 JOE No : CE26-000648

Per pro SGS India Private Ltd



ANKITA DAS
 Section Incharge

Authorized Signatory - Biological Discipline

Per pro SGS India Private Ltd



K_MANOHARAN
 Section Incharge

Authorized Signatory - Chemical Discipline

****End of Report****

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : CE26-000648.002-B

Issue Date : 05/05/2026

JOE No : CE26-000648

Report Control No : CER0000437865

Customer Provided Information

Sample Name : STP PREMEATE OUTLET WATER
 Customer Name : CBRE SOUTH ASIA PVT LTD
 Customer Address : 31000-TN454FM-DLF INFO PARK DEVELOPERS CHENNAI DFL DOWN TOWN,
 : BLOCK-A, 1/5, 1/9 900/2B, 300/2C, 301/3, TARAMANI MAIN ROAD,
 City : THIRUVANMIYUR, CHENNAI,
 Postal Code : 600113
 State : TAMIL NADU
 Country : INDIA
 Sample Qty. : 2.5L & 500ML
 Recd. :
 Sample : STP PREMEATE OUTLET WATER
 Description :
 Sample Location : STP/575KLD

Lab Provided Information

Sample Type : STP PREMEATE OUTLET WATER
 Received on : 28/04/2026
 Registered on : 28/04/2026
 Test Start-End Date : 28/04/2026 - 05/05/2026
 Sampling Date : 28.04.2026
 NABL Group : Pollution & Environment

Non-Accredited tests

Analysis	Method	Result	Unit
DISCIPLINE: BIOLOGICAL E.coli	APHA 9221 F - 24th Edition : 2023	<1600	MPN/100ml

Per pro SGS India Private Ltd



ANKITA DAS
Section Incharge

Authorized Signatory - Biological Discipline

Per pro SGS India Private Ltd



K_MANOHARAN
Section Incharge

Authorized Signatory - Chemical Discipline

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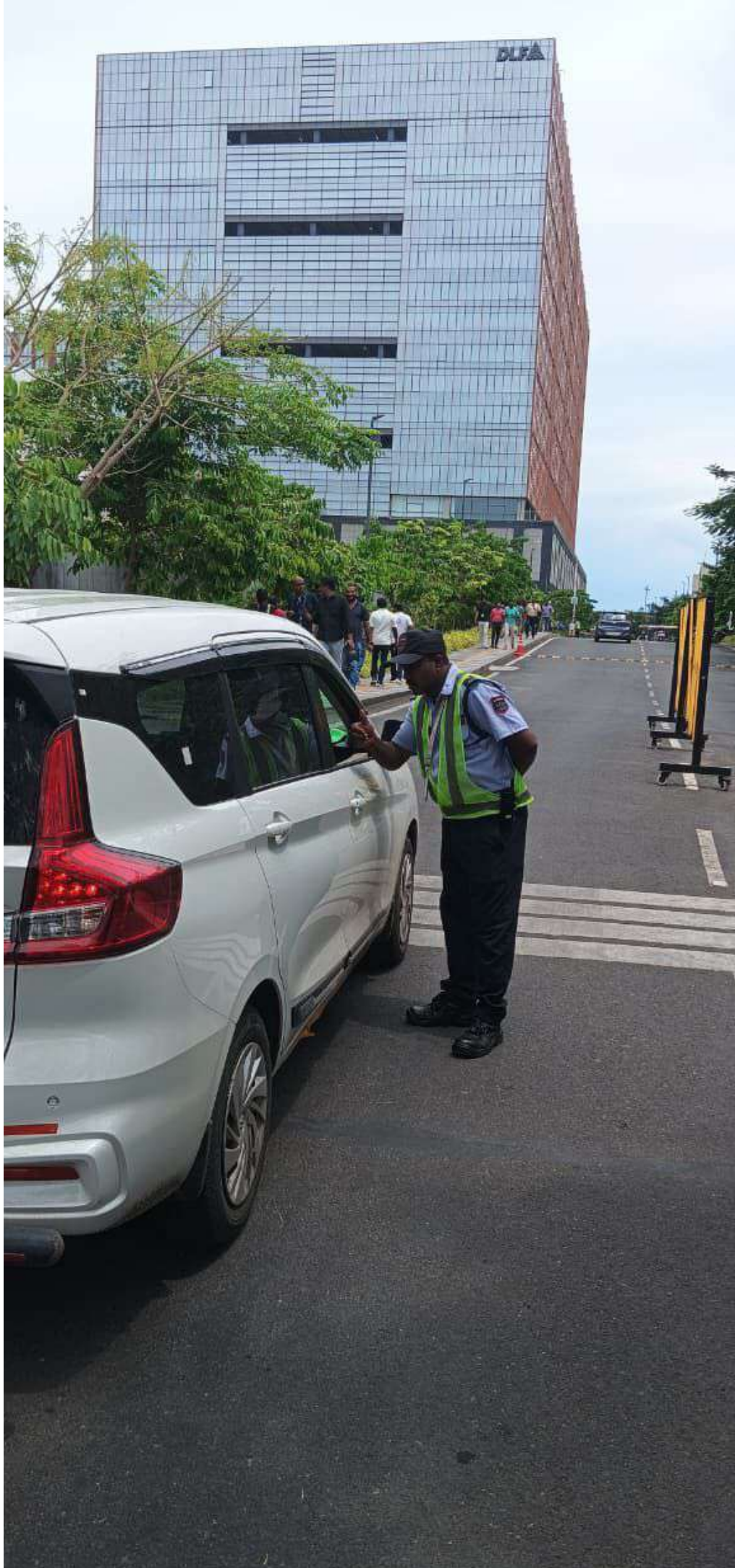
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For your valuable feedback please click on this link https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1k33NyF4v

Annexure-X
Parking Plan



















Annexure-XI
Newspaper advertisement

Copy of News paper Advertisements submitted on PARIVESH Portal

திருவள்ளூர், 30 ஜனவரி 2020

தமிழ்நாடு

சுயமதி சென்னை 5

பொது அறிவிப்பு

மாநில அளவிலான கற்றுச்சூழல் பாதிப்பு மதிப்பீடு ஆணையம்-தமிழ்நாடு, கற்றுச்சூழல் (பாதுகாப்பு) சட்டம் 1986-ன் பொருத்தமான விதிகளின்படி, சென்னை மாவட்டம், மைலாப்பூர் வட்டம், திருவான்மியூர் கிராமம், பிளாக் 7-ன், சர்வே எண். 1/5 & 1/9-ல் உத்தேசிக்கப்பட்ட DLF IT பூங்காவிற்கும், தமிழ்நாடு, காஞ்சிபுரம் மாவட்டம், தாம்பரம் வட்டம், கொட்டிவாக்கம் கிராமம், SF No. 300/2B, 300/2C & 301/3-ல் M/s DLF இன்புபா பார்க் டெவலப்பர்ஸ் (சென்னை) லிமிடெட்-ஆல் அறிவிக்கப்பட்டிருக்கும் திட்டத்திற்கும் கற்றுச் சூழல் அனுமதி அளித்துள்ளது என இதன்மூலம் பெரிதும் பொதுமக்களுக்கு அறிவிக்கப்படுகிறது.

தான் ஹவிலான அனுமதிக்க கடிதம் மாநில மாகக் கட்டுப்பாட்டு வாரியம், தமிழ்நாடு - இம் உள்ளது மற்றும் மாநில அளவிலான கற்றுச்சூழல் பாதிப்பு மதிப்பீடு ஆணையகம் SEAA-TN-ன் தளத்திலும் கூட உள்ளது.

மேற்கூறப்பட்ட சென்னை IT பூங்காவிற்கு கற்றுச் சூழல் அனுமதி வழங்கப்பட்ட விதிமுறைகளுக்கு ஏற்ப இந்த பொது அறிவிப்பு வெளியிடப்படுகிறது.

ராஜீவ் சிங்
(அதிகாரப்பூர்வ கையொழுத்திடுபவர்)
DLF இன்புபா பார்க் டெவலப்பர்ஸ் (சென்னை) லிமிடெட்
பழைய எண். 828 & 828A, புதிய எண். 268 & 268A,
சுரீ ரங்கா, புத்தமல்லி நெடுஞ்சாலை, கீழ்பாக்கம், சென்னை

Thinamani dated 30.01.2020

Park Developers (Chennai) Limited



PUBLIC NOTICE

Public at large is hereby informed that the State Level Environment Impact Assessment Authority – Tamil Nadu, has accorded Environmental Clearance for 'Proposed DLF IT Park at Survey No. 1/5 & 1/9 of Block 7, Tiruvanmiyur Village, Mylapore Taluk, Chennai District, and SF No. 300/2B, 300/2C & 301/3 Kotivakkam Village, Tambaram Taluk, Kanchipuram District, Tamil Nadu being developed by M/s DLF Info Park Developers (Chennai) Limited, as per applicable provisions of the Environment (Protection) Act, 1986.

Hard Copy of the Clearance Letter is available with the State Pollution Control Board, Tamil Nadu and also be available on the website of the State Level Environment Impact Assessment Authority, SIEAA-TN

This Public Notice is issued in compliance with the terms of Environmental Clearance accorded to the above said IT Park at Chennai.

Rajeev Singh
(Authorised Signatory)
DLF Info Park Developers (Chennai) Limited.
Old No. 828 & 828A, New No. 268 & 268A
Sri Ranga, Poonamallee High Road, Kilpauk, Chennai

The New Indian Express dated 30.01.2020

2020 Non Compliance (Contd.)

DL

Annexure-XII
Structure Stability Certificate



Dr. S. Arul Jayachandran

Professor

15/04/2024

Certificate of Structural Stability

To whomsoever it may concern

Construction of DLF INFO PARK DEVELOPERS (CHENNAI) LTD, Taramani Velachery Main Road, Comprised in T.S NO. 1/5 & 1/9, Block No. 7 of Thiruvanniyur Village and S.No. 300/2B, 300/2C & 30/3 of Kottivakkam Village at Taramani Road, Division-180, Zone-13, within the limits of Greater Chennai Corporation, has been proposed to be built with the following structural details.

- Phase 1 -** Block 3
- No of Floors -** One Extended Combined Basement Floor with Block 1,3,4 + Stilt Floor + 1st to 3rd Floor (Parking) + 4th to 12th Floor + 13th Floor (Part) to 16th Floor (Part) + Proposed 17th Floor (Part) for IT/ITES purpose.

BURO ENGINEERS (I) PRIVATE LTD. Submitted to IIT Madras the design details of the Reinforced Cement Concrete structure along with the architectural drawings, structural drawings, foundation drawings, and design report for the above-mentioned structural system.

IIT Madras conducted an independent evaluation of the structural design and stability of Block 3 - One Extended Combined Basement Floor with Block 1,3,4 + Stilt Floor + 1st to 3rd Floor (Parking) + 4th to 12th Floor + 13th Floor (Part) to 16th Floor (Part) + Proposed 17th Floor (Part) for IT/ITES purpose with several clarification meetings with the structural designer. It is certified that the collective structural design of the system (including foundation) and detailed drawings of the proposed structure is **satisfactory, structurally adequate and conform to the requirements of relevant IS codes.** As a mark of approval, all the structural drawings are signed and stamped by **IIT Madras.**

Sincerely,


Dr. S. ARUL JAYACHANDRAN
(Arul Jayachandran)

Tel. : 044 – 2257 4292 | Fax : 044 – 2257 5286 | E-mail : aruls@iitm.ac.in, arulsteel@gmail.com

Department of Civil Engineering
Indian Institute of Technology Madras

Room No: STR-403, Structural Engineering Laboratory, Department of Civil Engineering,
Indian Institute of Technology - Madras, Chennai - 600 036, Tamil Nadu, INDIA

Annexure-XVI

Health Checkup Certificate of Construction Worker

A-16



A Unit of KVBILKA Hope Hospital Pvt Ltd

HOPE HOSPITAL



24 HOURS-Pharmacy, X-Ray, ECG, Lab, OT and ICU with Ventilator
EXCELLENCE IN EMERGENCY CARE

MEDICAL FITNESS CERTIFICATE			
EMPLOYEE NAME: Mr. Lalji		AGE/SEX: 32 / M	
AADHAAR No :			
	TEST NAME	TEST REPORT	TEST NORMAL RANGE
GEN EXAM	HEIGHT	185 CM	150 CM - 184 CM
	WEIGHT	64 kg	60 KG - 80 KG
	BMI	18.7	18.5-24.9
	BP	130/90 mmHg	110/70 to 130/80
	PR	85 bpm	72 to 86
EYE	BOTH EYES	ACUITY COLOUR	
	LT	6/6	Blue
	RT	6/6	Blue
SYSTEM	CVS	S1,S2	S1,S2 + NO MURMURS
	CNS	NFND	NFND
	RS	NVBS	NVBS
RBS: 125 mg/dl			
Report : physically fit for work.			

[Signature]
 HOPE HOSPITAL
 Survey 107, Thiruvai Road,
 Poonamallee,
 Chennai - 600 056



A.C.S. MEDICAL COLLEGE & HOSPITAL

(Unit of Dr. M.G.R. Educational and Research Institute)

Number 1, Velappan Chavadi, Chennai - Bangalore N.E. Chennai - 600 077

Form No. A.C.S. 5/77



AUDIOGRAM CHART

Name: Mr. Lalji

Age: 30y

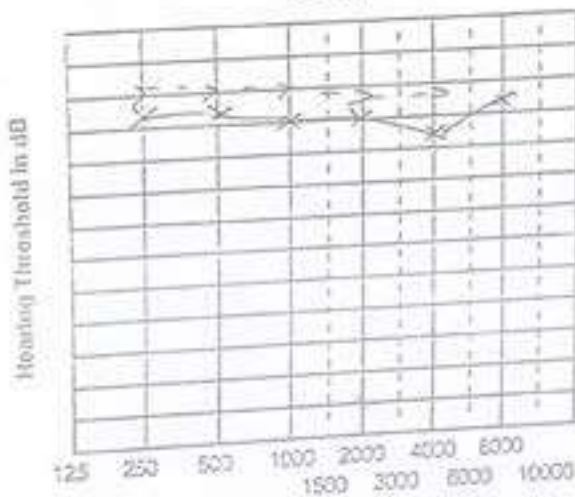
(M) F



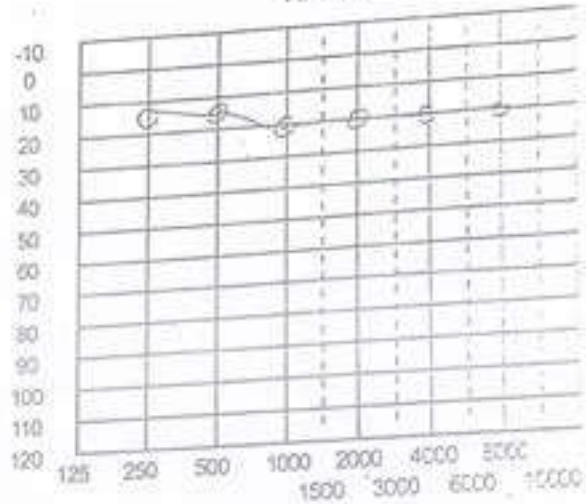
Date: 1/1/20

O.P. No. 2020000000

LEFT



RIGHT



Frequency in Hz.

EAR	MODE	Air Conduction		Bone Conduction		Colour Code
		Marked	Unmarked	Marked	Unmarked	
LEFT	□	X		>	Blue	
RIGHT	△	O		<	Red	

NO RESPONSE - Add 4 below the respective Symbols

Testing Equipment - GRAPHIC Audiometer

Frequency in Hz.

Puretone Average (PTA)

LEFT : 18.3 dB

RIGHT : 16.2 dB

INTERPRETATION: B/L minimal hearing loss.

Mr. Lalji's tympanogram.

[Signature]
AUDILOGIST



MAGI OPTICALS

MAGI EYE CARE CENTRE

Dr. V. Ramesh, M.B.B.S., Do., P.G.D.H.S., FVRS., FICO(UK)
 Senior Consultant & Surgeon,
 CATARACT, VITREO-RETINAL & TRAUMA SURGERY
 OPHTHALMOLOGIST

R. Vinothkumar, M.Opt.
 Eye Specialist,
 Optometrist

Date: 11/08/2025

OPHTHALMIC REPORT

This is to certify that I have examined MY. Lalji 31/M
 and the clinical finding are given below.

OD	OS
E Plane 6/6 DV	E Plane 6/6
NB NV	NB

~~ANTERSEGMENT~~ ~~ANTERSEGMENT~~
 Normal POSTERSEGMENT Normal
 (4mm) Ky IOP (8mm) Ky
 @ COLOUR VISION @


 Consultants Signature

R. Vinothkumar, M.Optom.,
 Eye Specialist
 Optometrist



touchTymp

Patient ID: 202510010418

Last name:

Lalji

First name:

32y/m

Date of birth:

Gender:

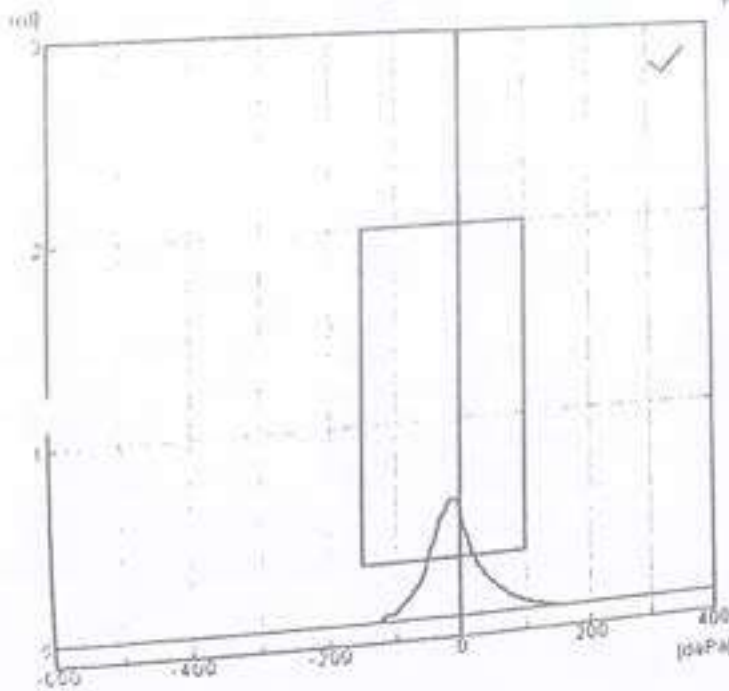
Examiner:

Audialopist

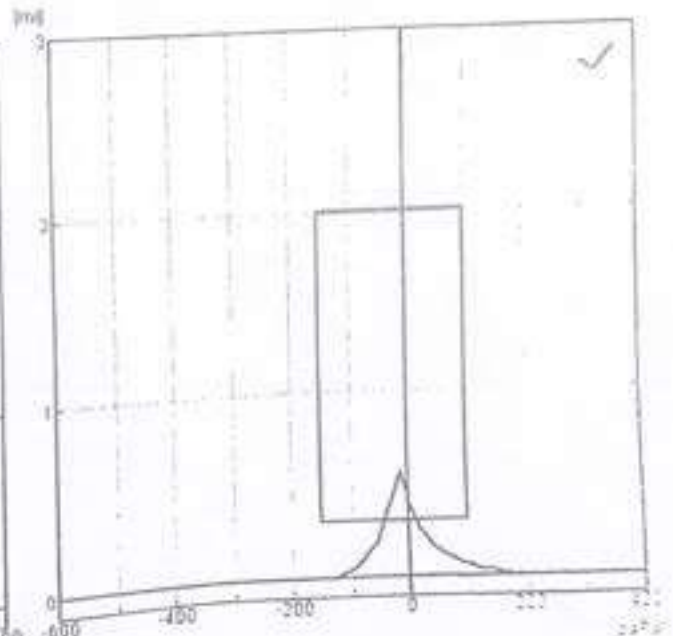
Session date: 04/10/2025 09:52

226 Hz Tympanometry

Right



Left



Volume: 0.79 ml
Compliance: 0.60 ml
Pressure: -8 daPa
Gradient: 68 daPa

Volume: 0.78 ml
Compliance: 0.56 ml
Pressure: -13 daPa
Gradient: 60 daPa

Ble 'A' type

04/10/25

EAR

Marked | Un Marked | Märkt | Un Märkt | Code

hope hospital

2023-01-18 12:19:14

Name : MR talji

Sex : Male

Section: ip

RoomID: _____

BedID: _____

ID: _____

Operator: anhu

parameswari: _____

Custom2: _____

Custom3: _____

AUTO 10mm/mV

Data for reference only:

HR	80
PR Interval	145
P Duration	103
QRS Duration	78
T Duration	207
QT/QTc	335/386
P/QRS/T Axis	47.7/35.2/44.6
R (V5)/S (V1)	1.90/1.30
R (V5)+S (V1)	3.20

<< Conclusions >>

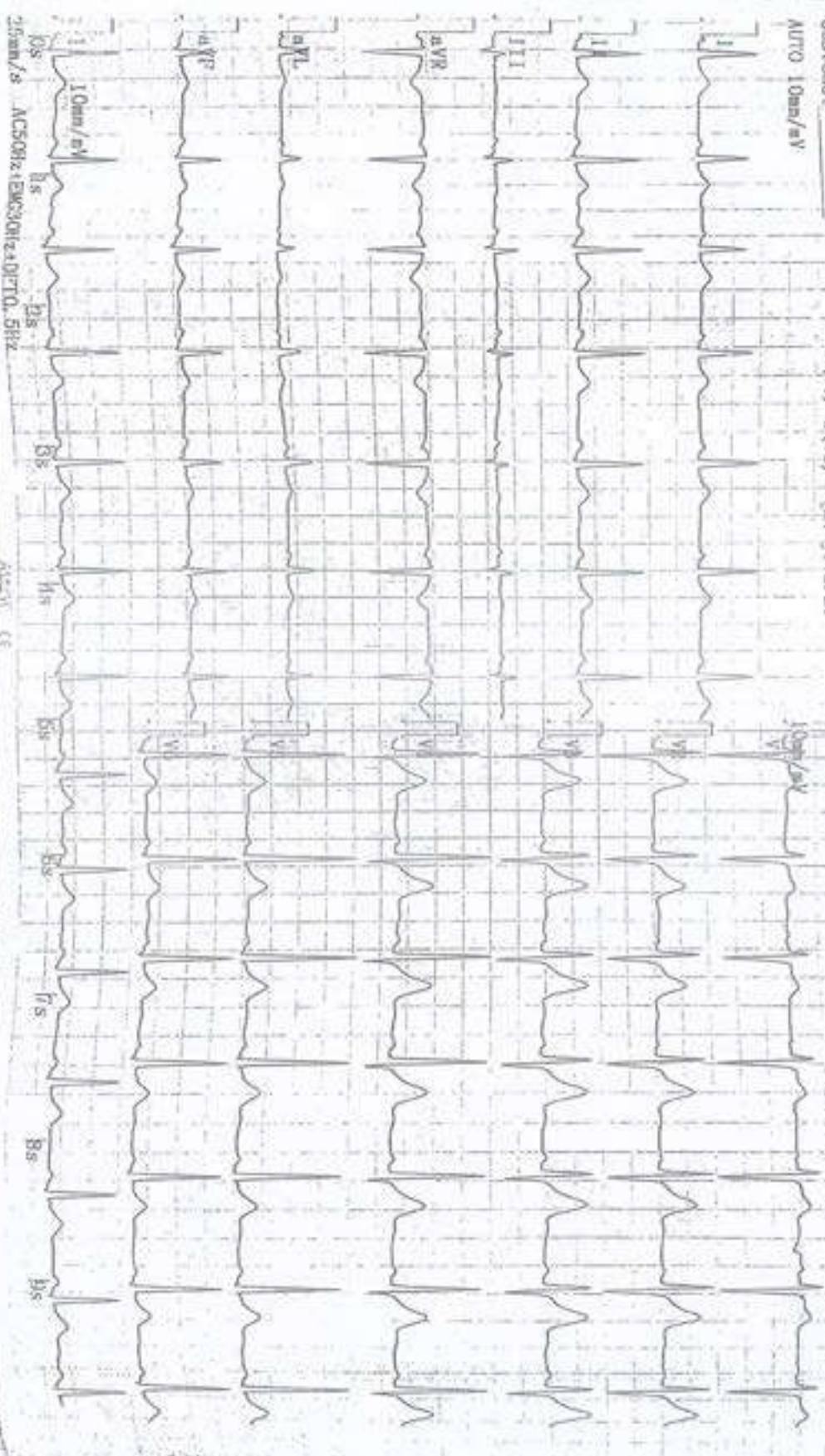
Normal Sinus Rhythm

Cardiac electric axis normal

Report need physician confirm

Physician: _____

D. J. WIN
D. J. WIN, C
 MD No: 148268
 Duty Medical Officer



**PERFORMA FOR SCREENING WORKERS
ENGAGED CONTRACTORS / SUB CONTRACTORS**



6166

Book No : 23
Page No : 021
Sl No : 63
Date : 11/5/26

Name of the Contractor /Sub-Contractor : INTERNATIONAL CONSTRUCTION
Full name of the Worker : RONADUE ALAM
Father / Husband Name : MAUR RAHMAN
Permanent Home Address : WARD NO-05, PIPLA, WACHH PARA
MAHESH BHAI NA KIAS, KISHANWANT, BIHAR - 855107
Present Address : _____

Date of Birth 12-03-2004 Age 22 Sex MALE
Married / Single / Widow / Widower SINGLE Number of Children _____

Mother Tongue HINDI Other Languages known ENGLISH, BENGALI

Category ADMIN - SUPERVISOR
In Case of emergency person to be Contacted of the workman for identification _____

Signature or Left Hand Thumb Impression (with address and Telephone Number, if any) Ronadue RA
Any other identification MARK _____

Weight : _____ Height : _____
Vision : Doc attached

EDUCATION

Examination Passed	Year	School / Board
<u>12th</u>		

Please attach a photo copy of birth certificate issued either by school or village panchayat as required under Workman's compensation Act 1923





Annexure-XVIII
Curing agents Purchase Order



METHRA INDUSTRIES INDIA PRIVATE LIMITED

14th JUNE 2024

TO WHOM SO EVER IT MAY CONCERN

We, Methra Industries India Pvt. Ltd. are supplying Cell O Con AAC Blocks to M/s. Eversendai Constructions for construction purpose at DLF Projects in Chennai, Taminadu.

Our plant was located at Gopal Reddy Kandigal Village of Gummidipoondi Taluk, Thiruvallur District which is 75 KMS from Site.

Recycled Content in our Product

a) FLY ASH : 65 – 70%

Thanks & Regards,

For Methra Industries India Pvt. Ltd

Authorized Signatory

Registered Office : New # 62, Old # 58, Panchali Amman Koil Street, Arumbakkam, Chennai - 600 106
Admin Office : # 791, (Old 427) Poonamallee High Road, Arumbakkam, Chennai - 600 106. Ph : 91 44 2363 8652
Email : admin@methras.in Web : www.methrascellocon.com
Factory Address : Eguvarpalayam Panchayat, Near Gopal Reddy Kandigal Village, Gummidipoondi Taluk, Thiruvallur Dist. Tamil Nadu-601 201
GST No. : 33AAGCM4780N1Z1

DLF - DOWNTOWN DESIGN MIX APPROVAL SHEET FOR 3DT & SERVICE BLOCK

Slab	Member	Grade	Total Concrete content	Concrete	Coarse	M sand	30mm	12mm	water	Admix	Air/Fine	TM No	Substrate no	Minimum cement content	% of premix/concrete content	Remarks	Cure strength in N/mm ²	
																	7 days	28 days
3DT																		
1	File	M40	350	350	6	620	880	400	150	2.8	-	TM 02	DLF-DTT/IMC-30T-05-OVAL-306	320	0		24.83	41.41
2	File top	M40	365	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
3	Column	M40	350	440	118	886	834	425	154	4.55	-	TM 10	DLF-DTT/IMC-30T-05-OVAL-317	As per Mix design	20		47.42	67.42
4	Shear wall	M40	350	440	118	886	834	425	154	4.55	-	TM 10	DLF-DTT/IMC-30T-05-OVAL-317	As per Mix design	20		47.42	67.42
5	Lift Core wall	M40	300	400	100	743	842	422	150	4.4	-	TM 22	DLF-DTT/IMC-30T-05-OVAL-404	As per Mix design	20		40.85	60.79
6	Grade slab	M40	380	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
7	Plinth beam	M40	360	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
8	Slab	M40	360	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
SERVICE BLOCK																		
1	File	M40	400	350	50	683	875	448	148	3.48	-	TM 05	DLF-DTT/IMC-30T-05-OVAL-267	360	13		30.81	52.9
2	File top	M40	360	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
3	Column	M40	380	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
4	Shear wall	M40	360	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
5	Lift Core wall	M40	360	265	115	822	862	454	144	3.42	-	TM 07	DLF-DTT/IMC-30T-05-OVAL-348	360	30		34.2	49.84
6	Grade slab	M40	350	245	95	686	857	457	150	3.976	-	TM 11	DLF-DTT/IMC-30T-05-OVAL-332	320	30		25.67	45.25
7	Plinth beam	M40	350	245	95	686	857	457	150	3.976	-	TM 11	DLF-DTT/IMC-30T-05-OVAL-332	320	30		25.67	45.25
8	Slab	M40	350	245	95	686	857	457	150	3.976	-	TM 11	DLF-DTT/IMC-30T-05-OVAL-332	320	30		25.67	45.25
Ultra Tech - Commercial																		
1	Beam & Slab	M40	350	245	95	686	857	457	150	3.976	-	TM 401	DLF-DTT/IMC-30T-05-OVAL-217	320	30		20.17	41.85
2	Rail/Column/Beam & Slab	M40	450	380	130	845	866	442	140	2.4	-	TM 402	DLF-DTT/IMC-30T-05-OVAL-217	360	30		11.88	1.13
3	File	M30	350	350	0	692	854	405	150	2.1	-	TM 219	DLF-DTT/IMC-30T-05-OVAL-368	320	0	Depends on the location grades will be adopted		
4	File	M40	350	350	0	692	854	405	150	2.1	-	TM 205	DLF-DTT/IMC-30T-05-OVAL-219	360	13		48.03	62.16
5	Column / Shear wall	M40	470	335	115	792	824	434	150	3.94	20	TM 403	DLF-DTT/IMC-30T-05-OVAL-211	As per Mix design	20		50.14	65.89
6	Column / Shear wall	M40	520	360	150	697	854	436	155	3.78	10	TM 404	DLF-DTT/IMC-30T-05-OVAL-211	As per Mix design	20		53.45	71.29

3DT				
Sl.no	Element	Grade	Document submittal no	Trial mix no
1	Pile	M30	DLF-DTT-JMC-3DT-DS-CIVIL-206	TM 02
2	PCC	M15		
3	Pile cap	M40	DLF-DTT-JMC-3DT-DS-CIVIL-248	TM 07
4	Column	M60	DLF-DTT-JMC-3DT-DS-CIVIL-317	TM 10
5	Shear wall	M60	DLF-DTT-JMC-3DT-DS-CIVIL-317	TM 10
6	Lift Core wall	M50	DLF-DTT-JMC-3DT-DS-CIVIL-404	TM 12
7	Grade slab	M30	DLF-DTT-JMC-3DT-DS-CIVIL-322	TM 11
8	Plinth beam	M30	DLF-DTT-JMC-3DT-DS-CIVIL-322	TM 11
9	Slab	M40	DLF-DTT-JMC-3DT-DS-CIVIL-248	TM 07

SERVICE BLOCK				
Sl.no	Element	Grade	Document submittal	Trial mix no
1	Pile	M40	DLF-DTT-JMC-3DT-DS-CIVIL-207	TM 01
2	PCC	M15		
3	Pile cap	M40	DLF-DTT-JMC-3DT-DS-CIVIL-248	TM 07
4	Column	M40	DLF-DTT-JMC-3DT-DS-CIVIL-248	TM 07
5	Shear wall	M40	DLF-DTT-JMC-3DT-DS-CIVIL-248	TM 07
6	Lift Core wall	M40	DLF-DTT-JMC-3DT-DS-CIVIL-248	TM 07
7	Grade slab	M30	DLF-DTT-JMC-3DT-DS-CIVIL-322	TM 11
8	Plinth beam	M30	DLF-DTT-JMC-3DT-DS-CIVIL-322	TM 11
9	Slab	M30	DLF-DTT-JMC-3DT-DS-CIVIL-322	TM 11

Ultra tech commercial plant				
Sl.no	Element	Grade	Document submittal	Trial mix no
1	Pile	M30	DLF-DTT-JMC-3DT-DS-CIVIL-068	TM 313
2	Beam & slab	M30	DLF-DTT-JMC-3DT-DS-CIVIL-217	TM 401
3	Raft	M40	DLF-DTT-JMC-3DT-DS-CIVIL-217	TM 401
4	Column	M50	DLF-DTT-JMC-3DT-DS-CIVIL-211	TM 403
5	Column	M60	DLF-DTT-JMC-3DT-DS-CIVIL-211	TM 404

15th June 2024

TO WHOM SO EVER IT MAY CONCERN

We **HIL LIMITED** are supplying Birla Aerocon AAC Blocks to M/s. Eversendai Constructions for Construction purpose at **DLF Projects** in Chennai, Tamilnadu

Our plant was located at Kannigaiper Village, Manjankaranai post, Uthukottai Taluk, Tiruvallur District which is 45 kms from site.

Recycled content in our product

a) FLYASH: 65 - 70%

Thanks & Regards

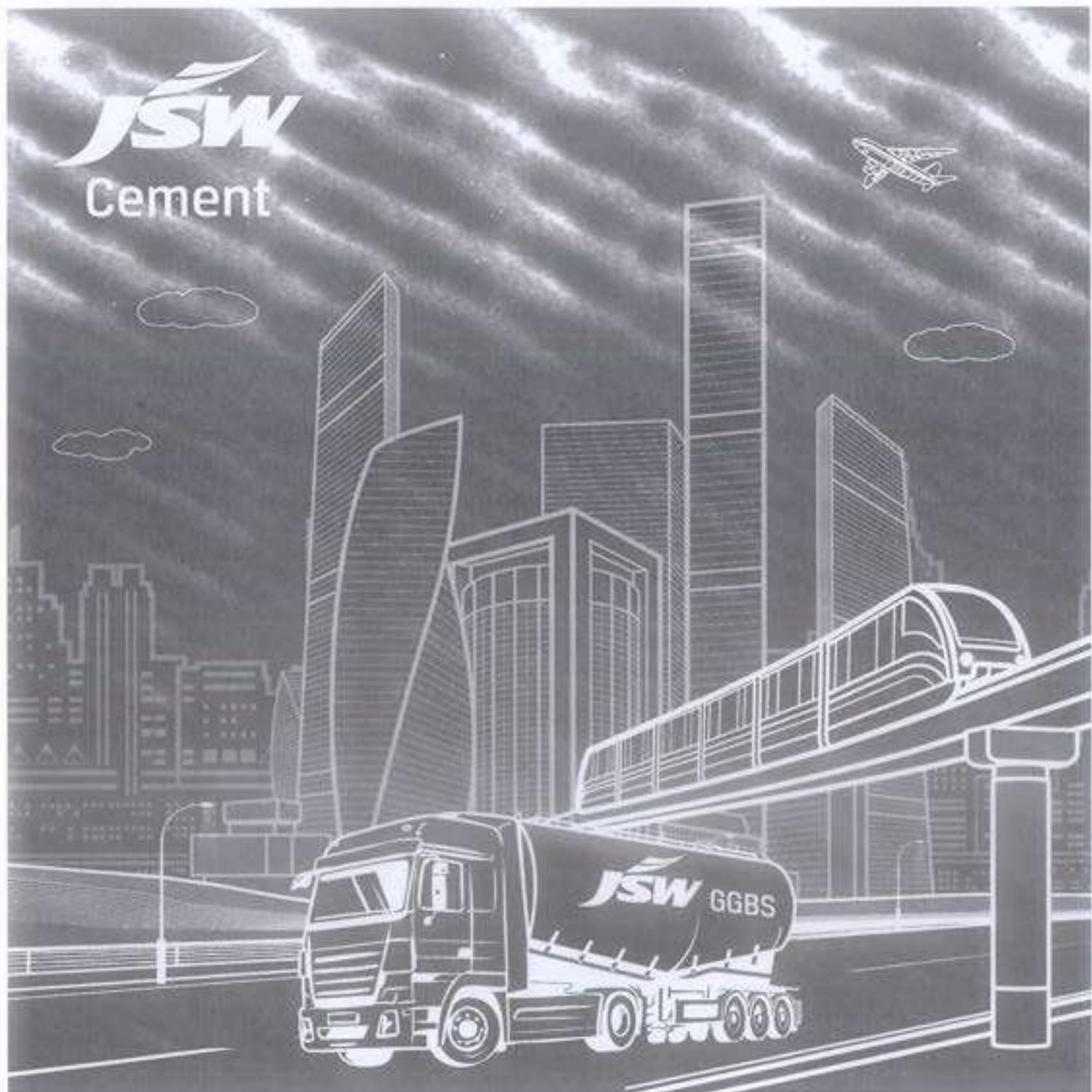
For HIL Limited



Authorised Signatory



JSW
Cement



Environmental Product Declaration

of Average Ground Granulated Blast- Furnace Slag

JSW Cement Limited

ISO 14020:2006, ISO 14025:2006, ISO 14040:2006, ISO 14044:2006, EN 15804:2012, EN 16908:2017

EPD registration number:	S-P-01415
Publication date:	23-12-2019
Validity date:	22-12-2024
Geographical scope:	India

 **EPD**[®]

THE INTERNATIONAL EPD[®] SYSTEM

1. Introduction

This current declaration aims to provide the measurable and verifiable environmental impacts for the environmental assessment of 1000 kg of average Ground Granulated Blast-furnace Slag (GGBS) manufactured at all the 3 Cement Plants of JSW Cement Limited.

JSW Cement is a part of USD 14 billion JSW Group. JSW entered the Cement market in 2009 with a vision to ensure a sustainable future for the country by producing eco-friendly cement, using industrial by-products such as slag. Its plants at Vijayanagar in Karnataka, Nandyal in Andhra Pradesh, Dolvi in Maharashtra and Salboni in West Bengal produce environment friendly cement which helps to reduce the carbon footprint and ensures optimal utilization of natural resources. Though, JSW Cement is a relatively late entrant into the industry but with a capacity to produce over 14.0 million tons per year, it is fast becoming a force to reckon with.

Not only does JSW Cement manufacture one of the eco-friendly cements in India, but it also engineers its products for superior strength and durability. All the plants of JSW Cement use state of art German technology of finish mode grinding in Roller Presses. It has won many prestigious awards for its energy-saving processes.

JSW Cement produces Portland Slag Cement (PSC) and Ground Granulated Blast -furnace Slag (GGBS). With key markets in Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Maharashtra, Odisha, Goa, Jharkhand, Bihar and West Bengal. JSW Cement has been delivering high-quality product to several large infrastructural projects in the southern, western and eastern regions of the country. Recently JSW Cement strategically invested in Shiva Cement based out of Odisha.

Ground granulated blast-furnace slag (GGBS) conforms to IS: 16714:2018. It is obtained by quenching molten iron slag (a by-product of iron and steelmaking) from a blast furnace in water or steam, to produce a glassy, granular product that is then dried and ground into a fine powder. The process of granulating the slag involves cooling of molten slag through high-pressure water jets. This rapidly quenches the slag and forms granular particles generally not bigger than 5 mm. The rapid cooling prevents the formation of larger crystals, and the resulting granular material comprises around 95% non-crystalline calcium-alumino silicates. GGBS (sustainable material for Green building construction) replace the Portland cement helps in reducing CO₂ emissions and in conserving non-renewable resources of limestone. The use of GGBS in concrete is recognized by LEED (Leadership in Energy and Environmental Design) and add points towards its certification.

This background LCA report is for the EPD of 1000 kg of average GGBS manufactured at the 3 Cement Plants at Nandyal, Dolvi and Vijayanagar of JSW Cement Limited. The LCA is conducted in accordance with EN15804 (Core rules for the product category of construction products) and EN 16908:2017 (sub-PCR Cement and Building Lime) for preparation of Environmental Product Declaration (EPD).

2. General Information

2.1 EPD, PCR, LCA Information

Table 1. EPD Information

Programme	The International EPD® System, www.environdec.com
Program operator	EPD International AB Box 210 60, SE- 100 31 Stockholm, Sweden.
Declaration holder	Mr. Manoj Kumar Rustagi JSW Cement Limited 3rd Floor, JSW Centre, Bandra Kurla Complex Bandra (East) - 400051, India Email: manoj.rustagi@jsw.in
Product	Ground Granulated Blast -furnace Slag (GGBS) – IS 16714: 2018
EPD registration number	S-P-01415
Publication date	23-12-2019
Validity date	22-12-2024
Geographical scope	India
Reference standards	ISO 14020:2001, ISO 14025:2006, ISO 21930:2007, EN 15804:2012, EN 16908:2017
UN CPC Code	3744

Table 2. PCR Information

Reference PCR	PCR 2012-01 v2.2	EN 16908:2017
Date of Issue	October 2013	February 2017

Table 3: Verification Information

Demonstration of verification	External, independent verification
Third party verifier	Sunil Kumar C S, Founder & Principal Consultant Chakra4 Sustainability Consulting Services Email: cssunil67@gmail.com

Table 4. LCA Information

Title	Background LCA Report of Average GGBS
Preparer	Dr. Rajesh Kumar Singh Thinkstep Sustainability Solutions Pvt. Ltd, 421, MIDAS, Sahar Plaza, Andheri Kurla Road, Andheri East, Mumbai, India - 400059 Email: rajesh.singh@thinkstep.com
Reference standards	ISO 14040/44 standard

2.2 Reference Period of EPD Data

The reference period for the data used within this EPD is the year 2018-19.

2.3 Geographical Scope of EPD Application

The geographical scope of this EPD is India.

2.4 Additional Information about EPD

JSW Cement Limited manufactures Portland Slag Cement (PSC - IS 455:2015), Portland Composite Cement (PCC) and Ground Granulated Blast-furnace Slag (GGBS - IS 16714:2018) at 4 Cement Plants. The EPD is declared for an average GGBS product. The target group of EPD are Green Building Certification Program holders and consultants, customers, project developers, statutory agencies and government. GGBS is mainly used for structural concrete construction (Partial replacement of OPC in Ready Mix Concrete).

This EPD is in accordance with ISO 14025 and EN 15804. EPD of construction products may not be comparable if they do not comply with EN 15804. Product Category Rules (PCR) for the assessment of the environmental performance of cement is PCR 2012-01 v2.2 Construction products and construction services, compliant with the European standard EN 15804:2012+A1:2013 (Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products) and EN 16908:2017 (sub-PCR Cement and Building Lime). These PCRs are applicable to the product 'cement' complying with the standard EN 197-1 (composition, specifications and conformity criteria for common cements).

The environmental impacts are calculated on the basis of the functional unit wherein each flow related to material consumption, energy consumption, emissions, effluent and waste is scaled to the reference flow.

The processes listed below for the production of the final product including primary packaging is included. The processes which are mandatory to be included in plant operation in particular are:

- Secondary material production (GBS)
- Grinding of slag
- Packaging.

The manufacturing of buildings, other capital goods and plant dismantling are not included. Inbound transportation of secondary materials and fuel are included, and outbound transportation of GGBS product is not included as per PCR.

3. Product Description and System Boundaries

3.1 Product Identification and Usage

Cement is the most essential raw material in any kind of construction activity. It is used in preparation of concrete. Accordingly, cement industry plays a crucial role in the infrastructural development of the country. The present declaration is conducted for 1000 kg of average GGBS manufactured at 3 plants of JSW Cement Limited.

Table 5. GGBS identification and usage

Product standard	GGBS
Significant characteristic	higher strength, eco-friendly.
Application domain	Resistant to chemical attack.
Market segment	Structural concrete construction (Partial replacement of OPC in Ready Mix Concrete).

Table 6: Technical Specification of GGBS Product

Technical Specification	Average GGBS	IS: 16714:2018
Fineness (m ² /kg)	364	320 (Min)
Slag Activity Index Test		
7 Days	75.30%	60% (Min)
28 Days	RA	75% (Min)
Magnesium Oxide (MgO)	6.07%	17.0% (Max)
Manganese Oxide (MnO)	0.32%	5.5% (Max)
Sulphide Sulphur	0.57%	2.0% (Max)
Sulphate (as SO ₃)	0.29%	3.0% (Max)
Insoluble Residue (IR)	0.21%	3.0% (Max)
Chloride Content (Cl)	0.008%	0.1% (Max)
Glass content (%)	94%	85% (Min.)
Moisture	0.09%	1.0% (Max)
Chemical Moduli		
$\frac{\text{CaO}+\text{MgO}+1/3 \text{Al}_2\text{O}_3}{\text{SiO}_2+2/3\text{Al}_2\text{O}_3}$	1.01	1.0 (Min.)
$\frac{\text{CaO}+\text{MgO}+\text{Al}_2\text{O}_3}{\text{SiO}_2}$	1.79	1.0 (Min.)

3.2 Product Manufacturing:

The main steps in GGBS manufacturing process are:

3.2.1 Raw material production (Secondary material)

During the steel production process, blast furnace slag is produced which is a secondary material. This is utilized as main raw material for the GGBS production.

3.2.2 Water Granulation (Cooling of Blast furnace slag)

The blast furnace slag produced are cooled and granules are formed with the water granulation process which will be utilized for the GGBS production.

3.2.3 Grinding of slag

The cement mill grinds the GBS to a fine powder which is then called GGBS and stored in a silo.

3.2.4 Packaging

The GGBS is then stored in silos and packed in bags using packing machines.

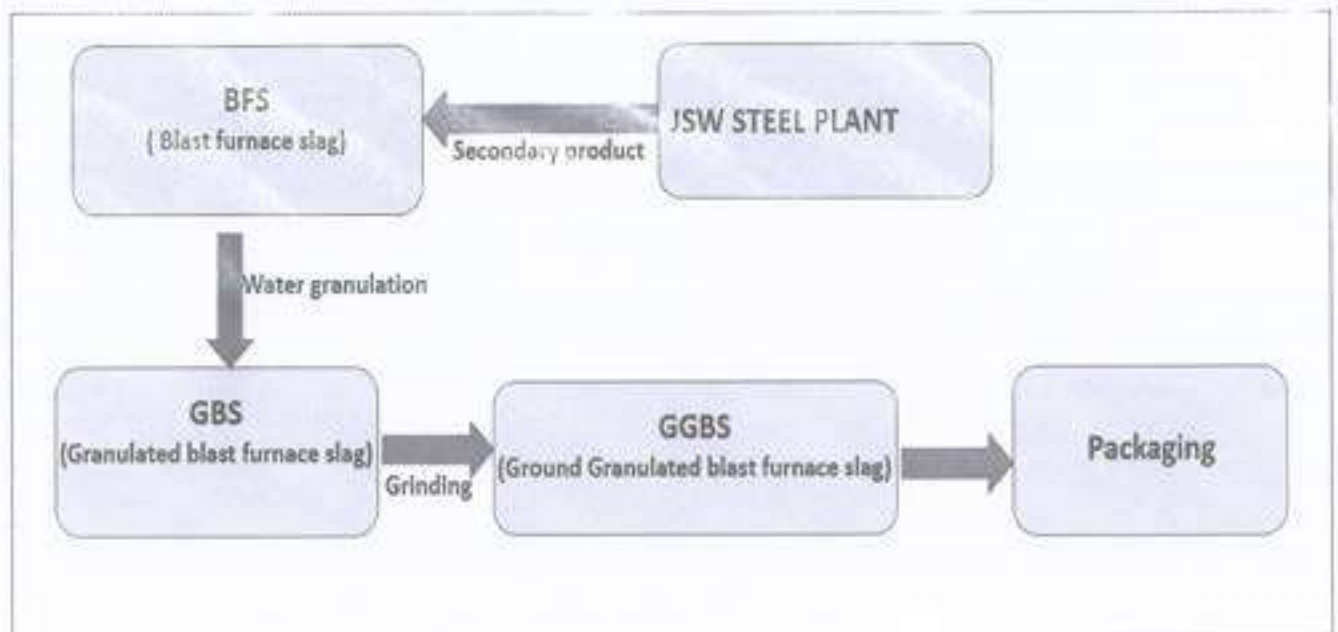


Figure 1: System boundary for the LCA study (A1, A2, A3)

3.3 System Boundaries

The selected system boundaries comprise the production of GGBS including raw material extraction up to the finished product at the factory gate.

Module	Product stages
A1	Production of raw materials (Secondary material)
A2	Upstream Transport (Inbound transportation)
A3	Manufacturing (GBS grinding)

The system boundary does not include:

- Capital equipment and maintenance of production facility
- Maintenance and operation of support equipment
- Human labor and employee transport

4. LCA

4.1 Information Sources and Data Quality

It is important that data quality is in accordance with the requirements of the LCA's goal and scope. This is essential to the reliability of LCA and achievement of the intended application. The quality of the LCI data for modelling the life cycle stages have been assessed according to ISO 14044 (ISO, 2006b). Data quality is judged by its precision (measured, calculated or estimated), completeness (e.g. are there unreported emissions?), consistency (degree of uniformity of the methodology applied on a LCA serving as a data source) and representativeness (geographical, time period, technology). To cover these requirements and to ensure reliable results, first-hand industry data in combination with consistent, upstream LCA information

is used. The datasets have been used in LCA-models worldwide for several years in industrial and scientific applications for internal as well as critically reviewed studies. In the process of providing these datasets, they have been cross-checked with other databases and values from industry and science. JSW Cement Limited provided the most accurate and representative data for GGBS production. For all data requirements, primary data were used where possible. Where there were gaps in the data, the average value, based on data collected from other production sites, was incorporated into the dataset.

4.2 Estimations and Methodology

4.2.1 Allocation procedures

No allocation has been done.

4.2.2 Average GGBS

The inventory data of the GGBS produced at all the 3 plants are used to calculate the declared average GGBS. The weighted average is determined based on the produced amounts by weight in 2018-19.

4.2.3 Declared unit

The declared unit for the EPD is 1000 kg of average Ground Granulated Blast-furnace Slag (GGBS) manufactured at all the 3 cement plants of JSW Cement Limited.

4.2.4 Impact assessment

A list of relevant impact categories and category indicators is defined and associated with the inventory data. Various environmental impacts and emissions are associated with the raw material production, transport of materials to manufacturing site and GGBS production.

CML 2001 (January 2013) method developed by Institute of Environmental Sciences, Leiden University, Netherlands have been selected for evaluation of environmental impacts. These indicators are scientifically and technically valid.

A list of relevant impact categories and category indicators is defined and associated with the inventory data. PCR 2012-01 v2.2 and EN 16908:2017 has been used to conduct the LCA. The PCR identifies the following LCI and LCIA.

1. Potential Environmental Impact (according with EN15804)
 - Global warming potential, GWP (100 years) (kg CO₂ equivalent)
 - Depletion potential of the stratospheric ozone layer, ODP (20 years) (kg CFC-11 equivalent)
 - Acidification potential of soil and water, AP (kg SO₂ equivalent)
 - Eutrophication potential, EP (kg PO₄³⁻ equivalent)
 - Formation potential of tropospheric ozone, POCP (kg Ethene (C₂H₂) equivalent)
 - Abiotic depletion potential (ADP-elements) for non-fossil resources (kg Sb equivalent)
 - Abiotic depletion potential (ADP-fossil fuels) for fossil resources (MJ, net calorific value)
2. Use of Natural Resources (according with EN15804)
 - Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) (MJ, net calorific value)
 - Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) (MJ, net calorific value)
 - Use of secondary material (kg)
 - Use of renewable secondary fuels (MJ, net calorific value)

- Use of non-renewable secondary fuels (MJ, net calorific value)
- Use of hot fresh water (m³)

3. Other Environmental Indicators

- Components for re-use (kg)
- Materials for recycling (kg)
- Materials for energy recovery (kg)
- Exported energy (MJ)
- Dust (total dust and PM₁₀) (kg)
- Hazardous waste (as defined by regional directives) disposed (kg)
- Non-hazardous waste disposed (kg)
- Radioactive waste disposed/stored (kg)

4.3 Cut Off Rules

Input and output data have been collected through detailed questionnaires which have been developed and refined. In practice, this means that, at least, all material flows going into the GGBS production processes (inputs) higher than 1% of the total mass flow (t) or higher than 1% of the total primary energy input (MJ) are part of the system and modelled in order to calculate elementary flows. All material flows leaving the product system (outputs) accounting for more than 1% of the total mass flow is part of the system. All available inputs and outputs, even below the 1% threshold, have been considered for the LCI calculation. For hazardous and toxic materials and substances the cut-off rules do not apply.

Secondary raw materials used in the production system is accounted adopting the following approach:

- The environmental impacts related to the 'previous life' is not considered.
- The processes needed to prepare the secondary raw material to the new use is considered.
- If the secondary raw material contains energy, the amount is estimated considering the gross calorific value and presented as secondary energy resource.
- If the secondary raw material does not contain energy, the quantity that enter the system is considered as secondary raw material.

4.4 Background Data

All relevant background datasets were taken from the GaBi-8 software database developed by thinkstep AG. To ensure comparability of results in the LCA, the basic data from the GaBi-8 database were used for fuel, energy, transportation and auxiliary materials.

4.5 System Boundaries

4.5.1 Technical system boundaries

The LCA model of 1000 kg of average GGBS represents a Cradle-to-Gate system, starting from raw material production (Secondary material) and ending with the product packaging.

The system boundary and geographical scope includes:

- Production of raw materials (Secondary material).
- Transport of raw materials.
- Grinding of slag.
- Electricity, Energy, water and raw materials used in the above process.
- Emissions to air, effluent discharges and solid waste disposal.

Table 8. Modules of the production life cycle included (X = declared module; MND = module not declared)

Production			Installation		Use stage							End-of-Life				Next product system
Raw material supply	Transport to manufacturer	Manufacturing	Transport to building site	Installation into building	Use / application	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction / demolition	Transport to EoL	Waste processing for reuse, recovery, recycle	Disposal	Reuse, recovery or recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

4.5.2 Geographical system boundaries

The geographical system boundaries of the LCA cover the production of GGBS in India.

4.5.3 Temporal system boundaries

The data collection is related to one year of operation and the year of the data is indicated in the questionnaire for each data point. The majority of data was derived from the period April 2018 to March 2019.

4.6 Comparability

The EPD is established on the basis of the PCR 2012-01 v2.2 compliant to EN 15804 and EN 16908:2017 (sub-PCR Cement and Building Lime). According to these standards, EPDs do not compare the environmental performance of products in the construction sector. Any comparison of the declared environmental performance of products lies outside the scope of these standards and is suggested to be feasible only if all compared declarations follow equal standard provisions.

4.7 Results

The LCIA result of overall 3 cement plants of JSW Limited together for GGBS. The following results excludes the impact of OPC & PSC production. The estimated impact results are only relative statements which do not indicate the end points of impact categories, exceeding threshold values, safety margins or risks.

Table 9. LCIA result for 1000 kg average GGBS

LCIA Impact Category	Unit	Module A1- A3
Abiotic Depletion (ADP elements)	kg Sb-Eq.	2.85E-06
Abiotic Depletion (ADP Fossil)	MJ	696.82
Acidification Potential (AP)	kg SO ₂ -Eq.	0.65
Eutrophication Potential (EP)	kg Phosphate-Eq.	0.03
Global Warming Potential (GWP)	kg CO ₂ -Eq.	60.21
Ozone Layer Depletion Potential (ODP)	kg CFC11-Eq.	9.32E-14
Photochemical Ozone Creation Potential (POCP)	kg Ethene-Eq.	0.03

Table 10. Use of natural resources for 1000 kg average GGBS

Parameters	Unit	Module A1- A3
Renewable primary energy as energy carrier	MJ	72.62
Renewable primary energy resources as raw materials	MJ	0.00
Total renewable primary energy resources (primary energy and primary energy resources as raw materials)	MJ	72.62
Non- renewable primary energy as energy carrier	MJ	714.55
Non- renewable primary energy resources as raw materials	MJ	0.00
Total non- renewable primary energy resources (primary energy and primary energy resources as raw materials)	MJ	714.55
Use of net fresh water	m ³	1.41

Table 11. Other indicators for 1000 kg average GGBS

Parameters	Unit	Module A1-A3
Non-hazardous waste	kg	0.19
Hazardous waste	kg	4.70E-07
Radioactive waste	kg	0.00

Table 12. Supplementary indicators for 1000 kg average GGBS

Parameters	Unit	Module A1-A3
Use of secondary material	kg	1009.74
Use of secondary renewable fuels	MJ	0.00
Use of secondary non-renewable fuels	MJ	0.00
Components for reuse	kg	0.00
Materials for recycling	kg	0.00
Materials for energy recovery	kg	0.00
Exported energy	MJ	0.00
Electricity use	kWh	47.01
Dust	kg	8.79E-06

4.8 Interpretation

Table 13. Interpretation of life cycle parameters for 1000 kg average GGBS

Parameter	Interpretation
ADP elements	Abiotic depletion potential (ADP element) is 2.85E-06 kg Sb-Equiv. in which 80% contribution is from GGBS grinding process and packaging process contributes 20%. Considering GGBS grinding process impacts as 100%, electricity contributes 70% and water granulation process contributes 23%.
ADP Fossil	Abiotic depletion potential (ADP Fossil) is 696.82 MJ of which 84% is contributed by GGBS grinding process and Packaging process contributes 20%.
Acidification Potential	Acidification Potential is 0.65 kg SO ₂ -Equiv. The contribution of GGBS grinding process is 95% and the packaging process contributes 5%.
Eutrophication Potential	Eutrophication Potential is 0.03 kg Phosphate-Equiv. The highest contribution is from GGBS grinding process i.e. 95% and the packaging process contributes only 5%.
Global Warming Potential	Global Warming Potential is 60.21 kg CO ₂ -Equiv. The contribution of GGBS grinding process is 92% and packaging process contributes 8%. Considering GGBS grinding process impacts as 100%, electricity contributes 60% and water granulation process contributes 20%.
Ozone Depletion Potential	Ozone Layer Depletion Potential is 9.32E-14 kg CFC11-Equiv. The contribution of GGBS grinding process is 82% and packaging process contributes 18%.
Primary Energy Demand	Primary Energy Demand is 787.18 MJ. The contribution of GGBS grinding process is 82% and packaging process contributes 15%.
Photochemical Ozone Creation Potential	Photochemical Ozone Creation Potential is 0.03 kg Ethene-Equiv. The major contribution of POCP comes from GGBS grinding process i.e. 92%, and packaging process contributes only 7%.
Waste Generation	The total amount of hazardous waste generated is 4.70E-07 kg and the non-hazardous waste is 0.19 kg, while no radioactive waste is generated. Most of the hazardous waste is contributed by electricity production with 73% and water granulation process giving 24%. The non-hazardous waste is coming from electricity production which contributes 74%.
Water Demand	The net fresh water used is 1.41 m ³ . The GGBS grinding contributes the highest with 98% in which water granulation process contributes 75%.

5. Other Environmental Information

The constituent materials used within our products are responsibly sourced and we apply the principles of Sustainable Development and of Environmental Stewardship as a standard business practice in our operations. Protecting the environment by preserving non-renewable natural resources, increasing energy efficiency, reducing the environmental emissions, limiting the impact of materials transportation to and from our operations is part of our way in doing business.

Products do not contain any substances that can be included in "Candidate List of Substances of Very High Concern for Authorization" and raw materials used are not part of the EU REACH regulation.

6. References

- EN 15804:2012+A1:2013, Sustainability of construction works - Environmental Product Declarations - Core rules for the product category of construction products
- PCR for Construction Products and CPC 54 Construction Services/ Prepared by IVL Swedish Environmental Research Institute, Swedish Environmental Protection Agency, SP Trä, Swedish Wood Preservation Institute, Swedisol, SCDA, Svenskt Limträ AB, SSAB, The International EPD System, 2012:01 Version 2.2, Date 2017-05-30.
- EVS-EN 16908:2017, Sub-PCR Cement and building lime- Environmental product declarations- Product category rules complementary to EN 15804. (Estonian Centre for Standardization)
- GABI 8: 2017, thinkstep AG; GaBi 8: Software-System and Database for Life Cycle Engineering. Copyright, Leinfelden, Echterdingen, 1992-2017.
- ISO 14020:2001 Environmental labels and declarations - General principles
- ISO 14025:2006 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
- ISO 14040:2006 Environmental management - Life cycle assessment - Principles and framework
- ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines
- ISO 21930:2007 Sustainability in building construction - Environmental declaration of building products.

7. Annexure

7.1 LCIA of 3 cement plants of JSW Cement Limited

7.1.1 JSW (Nandyal Cement Plant)

LCIA	A1-A3
Global Warming Potential (GWP, 100 years) [kg CO ₂ -Equiv.]	71.60
Ozone Layer Depletion Potential (ODP, steady state) [kg CFC11-Equiv.]	1.02E-13
Acidification Potential (AP) [kg SO ₂ -Equiv.]	0.72
Eutrophication Potential (EP) [kg Phosphate-Equiv.]	0.05
Photochemical Ozone Creation Potential (POCP) [kg Ethene-Equiv.]	0.03
Abiotic Depletion Potential (ADP elements) [kg Sb-Equiv.]	3.30E-06
Abiotic Depletion Potential (ADP-fossil fuels) (net cal. value) [MJ]	893.00
Use of renewable primary energy excluding renewable primary energy resources used as raw materials (PERE) (net cal. value) [MJ]	74.30
Use of renewable primary energy resources used as raw materials (PERM) (net cal. value) [MJ]	0.00
Total use of renewable primary energy resources (PERT) (net cal. value) [MJ]	74.30
Use of non- renewable primary energy excluding non- renewable primary energy resources used as raw materials (PENRE) (net cal. value) [MJ]	912.00
Use of non- renewable primary energy resources used as raw Materials (PENRM) (net cal. value) [MJ]	0.00
Total use of non- renewable primary energy resources (PENRT) (net cal. value) [MJ]	912.00
Use of secondary material [kg]	1010
Use of renewable secondary fuels (net cal. value) [MJ]	0.00
Use of non- renewable secondary fuels (net cal. value) [MJ]	0.00
Use of net fresh water [m ³]	1.45
Hazardous waste disposed [kg]	4.94E-07
Non-hazardous waste disposed [kg]	0.20
Radioactive waste disposed/stored [kg]	0.00
Components for re-use [kg]	0.00
Materials for recycling [kg]	0.00
Materials for energy recovery [kg]	0.00
Exported energy [MJ]	0.00
Electricity use [kWh]	46.84
Dust [kg]	9.55E-06

7.1.2 JSW (Dolmi Cement Plant)

LCIA	A1-A3
Global Warming Potential (GWP 100 years) [kg CO ₂ -Equiv.]	58.50
Ozone Layer Depletion Potential (ODP, steady state) [kg CFC11-Equiv.]	8.81E-14
Acidification Potential (AP) [kg SO ₂ -Equiv.]	0.67
Eutrophication Potential (EP) [kg Phosphate-Equiv.]	0.03
Photochemical Ozone Creation Potential (POCP) [kg Ethene-Equiv.]	0.03
Abiotic Depletion Potential (ADP elements) [kg Sb-Equiv.]	2.58E-06
Abiotic Depletion Potential (ADP-fossil fuels) (net cal. value) [MJ]	615.00
Use of renewable primary energy excluding renewable primary energy resources used as raw materials (PERE) (net cal. value) [MJ]	75.50
Use of renewable primary energy resources used as raw materials (PERM) (net cal. value) [MJ]	0.00
Total use of renewable primary energy resources (PERT) (net cal. value) [MJ]	75.50
Use of non- renewable primary energy excluding non- renewable primary energy resources used as raw materials (PENRE) (net cal. value) [MJ]	633.00
Use of non- renewable primary energy resources used as raw Materials (PENRM) (net cal. value) [MJ]	0.00
Total use of non- renewable primary energy resources (PENRT) (net cal. value) [MJ]	633.00
Use of secondary material [kg]	1015
Use of renewable secondary fuels (net cal. value) [MJ]	0.00
Use of non- renewable secondary fuels (net cal. value) [MJ]	0.00
Use of net fresh water [m ³]	1.51
Hazardous waste disposed [kg]	4.79E-07
Non-hazardous waste disposed [kg]	0.18
Radioactive waste disposed/stored [kg]	0.00
Components for re-use [kg]	0.00
Materials for recycling [kg]	0.00
Materials for energy recovery [kg]	0.00
Exported energy [MJ]	0.00
Electricity use [kWh]	50.08
Dust [kg]	8.61E-06

7.1.3: JSW (Vijaynagar Cement Plant)

LCIA	A1-A3
Global Warming Potential (GWP 100 years) [kg CO ₂ -Equiv.]	55.70
Ozone Layer Depletion Potential (ODP, steady state) [kg CFC11-Equiv.]	9.14E-14
Acidification Potential (AP) [kg SO ₂ -Equiv.]	0.62
Eutrophication Potential (EP) [kg Phosphate-Equiv.]	0.03
Photochemical Ozone Creation Potential (POCP) [kg Ethene-Equiv.]	0.03
Abiotic Depletion Potential (ADP elements) [kg Sb-Equiv.]	2.77E-06
Abiotic Depletion Potential (ADP-fossil fuels) (net cal. value) [MJ]	645.00
Use of renewable primary energy excluding renewable primary energy resources used as raw materials (PERE) (net cal. value) [MJ]	70.40
Use of renewable primary energy resources used as raw materials (PERM) (net cal. value) [MJ]	0.00
Total use of renewable primary energy resources (PERT) (net cal. value) [MJ]	70.40
Use of non- renewable primary energy excluding non- renewable primary energy resources used as raw materials (PENRE) (net cal. value) [MJ]	662.00
Use of non- renewable primary energy resources used as raw Materials (PENRM) (net cal. value) [MJ]	0.00
Total use of non- renewable primary energy resources (PENRT) (net cal. value) [MJ]	662.00
Use of secondary material [kg]	1007
Use of renewable secondary fuels (net cal. value) [MJ]	0.00
Use of non- renewable secondary fuels (net cal. value) [MJ]	0.00
Use of net fresh water [m ³]	1.35
Hazardous waste disposed [kg]	4.55E-07
Non-hazardous waste disposed [kg]	0.18
Radioactive waste disposed/stored [kg]	0.00
Components for re-use [kg]	0.00
Materials for recycling [kg]	0.00
Materials for energy recovery [kg]	0.00
Exported energy [MJ]	0.00
Electricity use [kWh]	45.57
Dust [kg]	8.53E-06



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Website : www.jsw.in

CIN No. L27102MH1994PLC152925

Date: 18.10.2024

TO WHOMSOEVER IT MAY CONCERN

We, JSW Steel Ltd. are supplying TMT REBARS to M/s KALPATARU PROJECTS INTERNATIONAL LIMITED for construction purpose at DLF Projects in Chennai, Tamil Nadu Project site.

We hereby certify that:

1. Our Manufacturing unit is located at Bellary, Karnataka which is 550 Kms away from site.
2. The raw material is extracted from Hospet, Karnataka which is 60 Kms away from site.
3. Recycled content in our product:
 - a) Post Industrial: 10-12%
 - b) Post Consumer: 2 -5%

For JSW Steel Ltd.



Part of O. P. Jindal Group

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Mumbai - 400 051

Phone : +91 22 4286 1000

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TO WHOM SO EVER IT MAY CONCERN

We M/s. **KALPATARU PROJECTS INTERNATIONAL LIMITED** are Supplying Ready Mix Concrete for Construction Purpose at DLF Projects Chennai, Tamilnadu.

1. Our Manufacturing plant is located in DLF Down town Projects, Taramani (In house plant)

2. The raw Material We Procured from Below places,

- a) Aggregate from Chengalpattu, Tamilnadu Which is 58KM Away from Plant.
- b) **Bharathi Cement OPC 53** From Kadapa, Andhra Pradesh Which is 58KM Away from Plant.
- c) **Ultratech Cement OPC 53** Ranipet district from, Tamilnadu Which is located 68KM Away from Plant.
- d) **JSW GGBS** From Mettur, Tamilnadu Which is located 340KM Away from Plant.
- e) **Chryso Admixtures** Which is located in Thiruvallur, Tamilnadu Which is 58KM Away from Plant.

3. Recycled Content in our product:

- a) Post Industrial :45 %
- b) Post-Consumer: 0

Thanking You

Yours Faithfully,



Bangalore Office: Gold Tower, 2nd Floor, No.50, Residency Road, Bengaluru: 560 025

E-mail: blore@kalpataruprojectsintl.com

Corporate Office: Kalpataru Synergy 7th Floor, Opp. Grand Hyatt, Santacruz (E), Mumbai - 400055, India | Tel: 22 3064 2100/ 22 6885 1500

Registered Office: Plot No. 101, Part-III, D 1 D C Estate, Sector - 28, Gandhinagar - 382 028, Gujarat, India | Tel: +91 79 2321 4000

Email: info@kalpatarupower.com | Website: www.kalpatarupower.com | CIN: L41900G 1998NP 0004781



KALPATARU PROJECTS INTERNATIONAL LIMITED
(Formerly Kalpataru Power Transmission Limited)

TO WHOM SO EVER IT MAY CONCERN

We, M/s. Kalpataru Projects International Limited, are the main contractor for the DLF DT3 project. The concrete used at the site is supplied from our in-house batching plant located at DLF Downtown Site, Chennai.

We hereby certify that the raw materials and construction materials used for the project are sourced from the following locations:

- **Aggregates:** Sourced from Mahabalipuram, Tamil Nadu, located 50 km from the site.
- **Ultratech OPC Cement:** Sourced from Arakkonam, Tamil Nadu, located 90 km from the site.
- **JSW GGBS:** Supplied from Mettur, Tamil Nadu, located 350 km away from the site.
- **Chryso Admixture:** Procured from Avadi, Tamil Nadu, located 27 km from the site.
- **Cellocon AAC Blocks:** Sourced from Avadi, Tamil Nadu, located 30 km from the site.
- **Kota Stone:** Procured from Bangalore, Karnataka, located 340 km from the site.

Recycled Content in Products:

Concrete Raw Materials:

Pre-Consumer Recycled Content (%): 30%

Post-Consumer Recycled Content (%): 0.3%

AAC Blocks:

Pre-Consumer Recycled Content (%): 65%

Post-Consumer Recycled Content (%): 0%

Kota Stone:

Pre-Consumer Recycled Content (%): 0%

Post-Consumer Recycled Content (%): 0%

With Warm Regards,

For Kalpataru Projects International Limited.

Ramesh RM.

Authorized Signatory

Bangalore Office: Gold Tower, 2nd Floor, No.56, Residency Road, Bengaluru: 560 025
E-mail: blore@kalpataruprojectsintl.com

Corporate Office: Kalpataru Synergy, 7th Floor, Opp. Grand Hyatt, Santacruz (E), Mumbai - 400055, India | Tel: 22 3064 2100/ 22 6885 1500
Registered Office: Plot No. 101, Part-B1, B.I.D.C. Estate, Sector - 28, Gandhinagar - 382 028, Gujarat, India | Tel: +91 79 2321 4000
Email: info@kalpatarupower.com | Website: www.kalpatarupower.com | CIN: L40100GJ1989PLC004281



TO WHOM SO EVER IT MAY CONCERN

We M/s. Concrete OEM PVT LTD are supplying Ready mix concrete to M/ S. Kalpataru Projects International Limited for construction purpose at DLF Downtown projects Chennai, Tamil Nadu.

We hereby certify that,

1. Our manufacturing plant is located in Navalur & Sholinganallur, Chennai which is 21 KM & 15 Km away from the site

2. The raw materials we procured from below places,

- Aggregates from Madhur/Uthiramerur, Tamil Nadu which is 75 KM away from plant.
- Bharathi OPC 53 from Kadapa, Andhra Pradesh which is 315 KM away from plant.
- JSW GGBS from Mettur, Tamil Nadu which is located 340 KM away from plant.
- Flyash from Vallur, Andhra Pradesh which is located 70 KM away from the site.
- Fosroc admixtures from Bangaluru, Karnataka which is 325 KM away from plant.

3. Recycled content in our product:

- Post industrial: 50%
- Post consumer: 0%



Anandhavel J
For CONCRETE OEM PVT LTD

RDC CONCRETE (INDIA) PVT LTD

CIN : U74999MH1993PTC172842

Plot No. 2 / 129, S. No. 55 / 4d1 Avadi Road, Semmankuppam,
Poonamallee Taluk, Chennai - 600 056

W : www.rdcconcrete.com



TO WHOM SO EVER IT MAY CONCERN

We M/s. RDC CONCRETE (INDIA) PVT LTD are supplying Ready mix concrete to M/ S. Kalpataru Projects International Limited for construction purpose at DLF Downtown projects Chennai, Tamil Nadu.

We hereby certify that,

1. Our manufacturing plant is located in Medavakkam, Chennai which is 13-KM away from the site
2. The raw materials we procured from below places,
 - Aggregates from Wallajah, Tamil Nadu which is 105 KM away from plant.
 - Bharathi OPC 53 from Kadapa, Andhra Pradesh which is 315 KM away from plant.
 - JSW GGBS from Mettur, Tamil Nadu which is located 340 KM away from plant.
 - Flyash from Vallur, Andhra Pradesh which is located 42 KM away from the site.
 - Fosroc admixtures from Bangaluru, Karnataka which is 325 KM away from plant.
3. Recycled content in our product:
 - Post industrial: 45%
 - Post consumer: 0%



V. N. S. Chidambaram

For RDC CONCRETE (INDIA) PVT LTD

Corporate Office : No 701 , Thane One,
Ghodbunder Road, Majiwada, Thane (West) - 400610,
Maharashtra, INDIA, T : 91 - 22 6789 6789 | 6789 6700



We are
Great Place To Work® Certified™

Scrap Utilization letter at DLF Downtown Taramani, 3DT

To whomsoever it may concern

Certificate for recycling and reuse of construction and packaging waste

Greetings,

We have collected and hauled the following construction waste from **DLF Downtown Taramani - 3DT, Chennai**. Following is a summary of generated waste:

Material Description	Material Stream	Total Waste (kg)	Diverted Waste (kg)	Diverted (%)	Waste to Landfill (kg)	Method of Diversion
Cement Bags	Reused	21.30	21.30	100%	0.00	Returned to suppliers for reuse
Wood	Recycled - source separated	2,824.00	2,824.00	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
Rebar (Metals)	Recycled - source separated	3,69,000.00	3,69,000.00	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
Rebar (Glass)	Reused	4,773.00	4,773.00	100%	0.00	
Glass	Recycled - source separated	813.00	813.00	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
Aluminium Waste	Recycled - source separated	157.60	157.60	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
Flooring	Landfill Waste	0	0	0	8000.00	The flooring wastes were directly sent to landfill
Gypsum Boards	Recycled - source separated	1,464.81	1,464.81	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
Paint Cans	Recycled - source separated	580.06	580.06	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
Steel Scrap	Recycled - source separated	216.00	216.00	100%	0.00	The item has been sold to the recycler (C&D Waste Challan is attached)
		367648.77	379649.77	97.94%	8000.00	

Authorised Signature: 

Name: V. Subbiah

Designation: GM - Projects

DLF Info Park Developers (Chennai) Limited

Old No. 828 & 828A, New No. 268 & 268A, Sri Ranga,
 Poonamallee High Road, Kilpauk, Chennai - 600 010.
 Tel : 4399 8888 Website : www.dfl.in
 CIN : U45200TN2006PLC067001

**Declaration of Concrete Design Mix Ratios used at DLF Downtown Taramani, 3DT**

To whomsoever it may concern

This is to certify that the concrete works executed for the **DLF Downtown Taramani 3DT, Chennai** project have been carried out strictly in accordance with the approved **Design Mix Ratios**.

All structural elements including piles, pile caps, columns, shear walls, grade slabs, plinth beams, and slabs were produced and placed using the respective concrete grades and mix proportions as indicated below:

Sl. No.	Member	Grade	Total Cement (kg/m ³)	Cement (kg/m ³)	CGGE (kg/m ³)	M Sand (kg/m ³)	20mm (kg/m ³)	12mm (kg/m ³)	Water (kg/m ³)	Admixtu re (%)	% of CGGE (of Cement) (kg/m ³)	Average 28-day Cube Strength (N/mm ²)
1	Pile	M30	350	350	5	820	688	458	150	2.8	0%	43.41
2	Pile Cap	M40	380	285	115	812	681	454	144	2.42	30%	48.64
3	Column	M30	470	330	140	896	636	425	154	4.95	30%	67.83
4	Shear Wall	M30	510	350	160	896	636	425	154	4.35	30%	63.83
5	Grade Slab	M40	380	285	115	812	681	454	144	2.42	30%	48.64
6	Plinth Beam	M40	380	285	115	812	681	454	144	2.42	30%	48.64
7	Slab	M40	380	285	115	812	681	454	144	2.42	30%	48.64

Authorized Signatory

For DLF Limited

Name: V. Subbiah

Designation: GM - Projects

Authorised Signature:

Date: 19/12/25

NCL Buildtek Ltd

Validity: Dec 2025

About Manufacturer

NCL Buildtek Ltd is part of NCL Group and it comprises of ALLTEK & SECCOLOR divisions. Over period of time the product portfolio is expanded to AAC blocks, dry-mix mortars, tile adhesives & flooring segments.

Today, NCL Buildtek Ltd has four successful business verticals under its realm; NCL coatings, NCL windoors, NCL wall solutions and NCL services. Through the coatings division, NCL manufactures putties, textures and wide range of emulsion paints. Through the windoors division, NCL manufactures colour coated GI windows and over a period started manufacturing ABS doors in collaboration with South Korea, UPVC doors & windows in collaboration with Veka AG, Germany, and high-end aluminium windows in partnership with Schuco, Germany. Through the walls division, NCL manufactures AAC blocks, dry-mix cement mortars & wide range of tile adhesives.

Green Product Features

- Reduces the dead load significantly that result in less usage of steel and concrete.
- Light weight but higher compressive strength
- Offers low heat transmittance (U value: 0.95 W/ m² K) through AAC Blocks.
- Use of sustainable raw materials to the tune of 71.3%.

GreenPro EcoLabelled Products

- NCL AAC Blocks

NCL
BUILDTEK LTD



Contact Details

Name: B.Vishnuvardhan

Email: vishnu_vardhan@ncl-buildtek.com

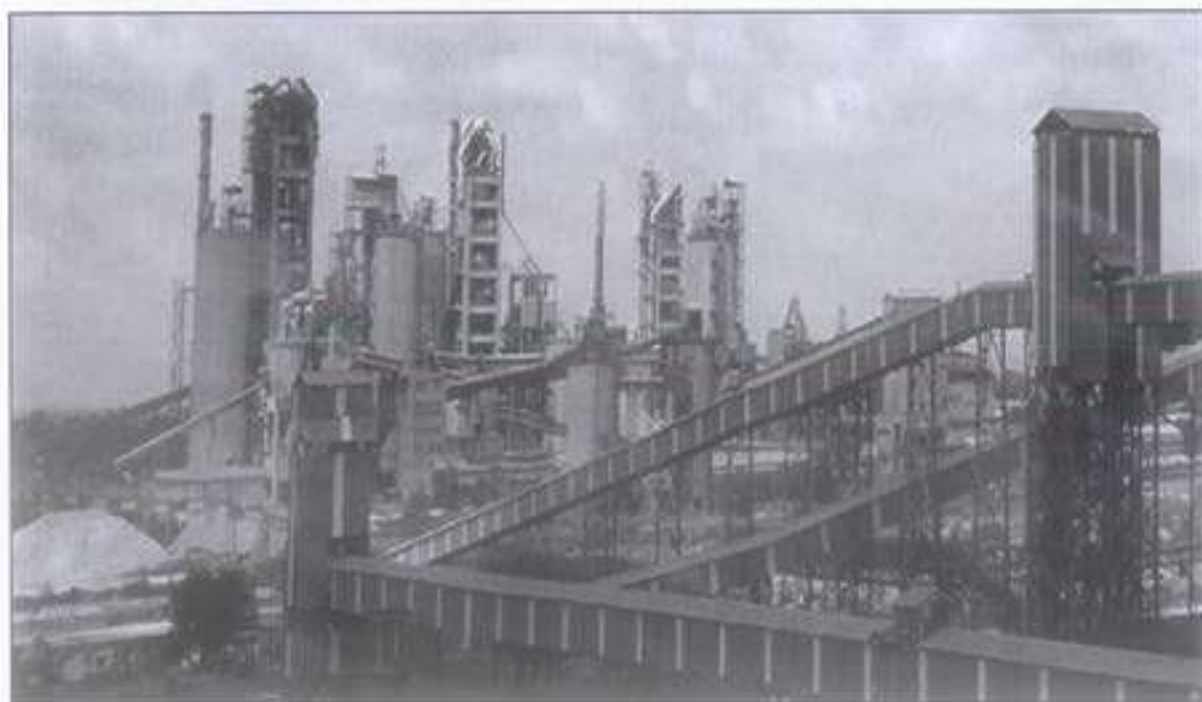
Ph: 9866015185

Website: www.ncl-buildtek.com

Cement Product (OPC, PPC, PSC, PCC)

From UltraTech Cement Ltd.

In accordance with ISO 14025 & EN 15804:2012+A2:2019



Programme:	<i>The International EPD® System, www.environdec.com</i>
Programme operator:	<i>EPD International AB</i>
EPD registration number:	<i>S-P-05019</i>
Publication date:	<i>2022-08-02</i>
Valid until:	<i>2027-08-01</i>



1. Introduction

UltraTech Cement Limited is the cement flagship company of the Aditya Birla Group. It is the largest manufacturer of grey cement and ready-mix concrete (RMC) and one of the largest manufacturers of white cement in India. It is the third largest cement producer in the world, excluding China. UltraTech is the only cement company globally (outside of China) to have 100+ MTPA of cement manufacturing capacity in a single country. The Company's business operations span UAE, Bahrain, Sri Lanka and India.

UltraTech has a consolidated capacity of 119.95 million Tonnes Per Annum (MTPA) of grey cement. It has 22 integrated manufacturing units, 27 grinding units, one Clinkerisation unit and 8 Bulk Packaging Terminals. UltraTech is a founding member of Global Cement and Concrete Association (GCCA). It is a signatory to the GCCA Climate Ambition 2050 and has committed to the Net Zero Concrete Roadmap announced by GCCA. Focusing on accelerating the decarbonisation of its operations they have also adopted new age tools like the Science Based Targets Initiative (SBTi) and Internal Carbon Price as well as set ambitious environmental targets through both EP100 and RE100.

UltraTech is also committed to drive sustainability across the value chain of its operations. To achieve this, they focus on carbon emissions, energy reduction, water management, waste management, biodiversity management, resource management, community relationship management, occupational health and safety, human rights management, employee well-being and product development.

Thinkstep Sustainability Solutions Pvt. Ltd, a Sphera Company (formerly thinkstep AG), has been entrusted to conduct Life Cycle Assessment for 4 cement products i.e., OPC, PPC, PSC and PCC as per the standards ISO 14040:2006 (and its amendment 14040:2006/Amd 1:2020), ISO 14044:2006 (and its amendments 14044:2006/Amd 1:2018 and 14044:2006/Amd 2:2020) along with EN15804-A2:2019 (Core rules for the product category of construction products) and e-PCR-001 Cement and Building Lime (EN 16908) for the preparation of Environmental Product Declaration (EPD).

The LCA model was created using the GaBi 10.5 Software system for life cycle engineering, developed by Sphera (formerly thinkstep AG).

2. General Information

2.1 EPD, PCR, LCA Information

Table 2-1 EPD Information

Programme	The International EPD System www.environdec.com	
Program operator	EPD International AB Box 210 60, SE-100 31 Stockholm, Sweden.	Indian Regional Hub www.environdecindia.com
Declaration holder	Mr. Vishal Bhavsar UltraTech Cement Pvt. Ltd., Ahura Centre, B Wing, 2nd Floor, Mahakali Caves Road, Andheri East, Mumbai, Maharashtra 400093, India Email - vishal.bhavsar@adityabirla.com	
Product	Ordinary Portland Cement (OPC), Pozzolana Portland Cement (PPC), Portland Slag Cement (PSC) and Portland Composite Cement (PCC)	
CPC Code	3744	
EPD registration number	S-P-05019	
Publication date	2022-08-02	
Validity date	2027-08-01	
Geographical scope	Worldwide	
Reference standards	ISO 14020:2001, ISO 14025:2006, EN 15804:2012+A2:2019, EN 16908:2017	

Table 2-2. PCR Information

Reference PCR	'Construction Products and Construction Services' 2019:14, Version 1.11 & c-PCR-001 Cement and building lime (EN 16908)
Date of Issue	2021-02-05 (Version 1.11)

Table 2-3. Verification Information

Demonstration of verification	External, independent verification
Third party verifier	Dr Hüdai Kara, Metsims Sustainability Consulting, 4 Clear Water Place, Oxford OX2 7NL, UK Email: hudai.kara@metsims.com

Table 2-4. LCA Information

Title	Environmental Product Declaration of Cement Products
Author	Dr. Rajesh Kumar Singh Thinkstep Sustainability Solutions Pvt. Ltd., a Sphera Company 707, Meadows, Sahar Plaza, Andheri Kurla Road, Andheri East, Mumbai, India - 400059 Email: rsingh@sphera.com
Reference standards	ISO 14040/44 standard



2.2 Reference Period of EPD Data

The reference period for the primary data (foreground data) used within this EPD is FY 2018-2019. The background data used in the study have been applied through GaBi datasets which are less than 5 years old.

2.3 Geographical Scope of EPD Application

The geographical scope of this EPD is global.

2.4 Additional Information about EPD

This EPD provides information for the four Cement products i.e., Ordinary Portland Cement (OPC), Pozzolana Portland Cement (PPC), Portland Slag Cement (PSC) and Portland Composite Cement (PCC) manufactured at 22 cements plants representative of UltraTech Cement Company. The EPD is in accordance with ISO 14025 and EN 15804+A2. EPD of construction products may not be comparable if they do not comply with EN 15804+A2. The Life Cycle Assessment (LCA) study carried out for developing this EPD for cement products is done as per ISO 14040 and ISO 14044 requirements.

Product Category Rules (PCR) for the assessment of the environmental performance of cement products is PCR for 'Construction Products and Construction Services' 2019:14, Version 1.11 & c-PCR-001 Cement and building lime (EN 16908).

This PCR is applicable to the product "Cement Product" complying with the standard EN 15804+A2 (Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products).

3. Product Description and System Boundaries

3.1 Product Description

Cement is the most essential raw material in any kind of construction activity. It is used in preparation of concrete, mortar, grout, plaster, etc. Accordingly, cement industry plays a crucial role in the infrastructural development of the country. The Table 3-1 gives the composition of all the 4 cement types.

Table 3-1 Cement composition

Composition	OPC	PPC	PSC	PCC
Clinker	92.03%	63.19%	38.00%	44.72%
Fly ash	-	33.33%	-	23.75%
Slag	-	-	60.00%	27.50%
Gypsum	3.76%	3.45%	2.00%	4.03%
Additional constituents	4.22%	0.031%	-	-

Table 3-2 provides the UltraTech cement products with their respective shares:

Table 3-2. UltraTech cement products with their respective share

Cement Products	Quantity of cement produced (tonnes)	Share
OPC	1,80,46,130.53	37.22%
PPC	2,73,08,411.38	56.33%
PSC	6,13,800.93	1.27%
PCC	9,99,868.49	2.06%
Total	4,69,68,211.33	96.88%

Remaining 3.12% of the cement production consist of IRST, Export Grade, EGC PPC, SRPC cements, which are not included in the scope of the study.

- OPC:** Ordinary Portland Cement is the most commonly used cement for a wide range of applications, covering standard, high strength concretes, masonry and plastering works, precast concrete products for e.g., blocks, pipes etc., and specialized works such as precast and prestressed concrete.
- PPC:** Portland Pozzolana Cement is ordinary Portland cement intimately blended or ground with pozzolanic materials such as fly ash, calcined clay, rice husk ash etc. The concrete produced by using Portland Pozzolana cement has high ultimate strength, is more durable, resists wet cracking, thermal cracking and has a high degree of cohesion and workability in concrete and mortar.
- PSC:** Portland Slag Cement is a cement with high flexural strength and is suitable for infrastructure projects due to its low heat of hydration. Application ranges from high performance or high strength concrete, structures and foundations to pre-cast concrete.
- PCC:** Portland Composite Cement is a cement with waste products like fly ash and slag substituting the natural materials. This allows optimization of the main characteristics of cement clinker and reduction of CO2 emissions due less use of clinker and also offer considerable opportunities for optimizing properties like strength and workability.

3. System Boundary



Figure 1 given below represents system boundary diagram of the study.

Figure 1 System boundary diagram

A1: Raw Material Supply

Production for each product starts with mainly locally sourced but some transported from other parts of the world. 'Raw material supply' includes raw material extraction and pretreatment processes before production.

A2: Raw Material Transport

Transport is relevant for delivery of raw materials and other materials to the plant and the transport of materials within the plant. Transport of raw materials to production site is taken as the weight average values for transport from raw materials supplier.

A3: Manufacturing

Cement production starts with quarry operation. After the crushing and homogenization process, raw materials go to the mills. Production continues with burning and cooling. Finally, additional raw materials are added to the mixture, mixed and ready for use.

4. LCA

4.1 Information Sources and Data Quality

It is important that data quality is in accordance with the requirements of the LCA's goal and scope. This is essential to the reliability of LCA and achievement of the intended application. The quality of the LCI data for modelling the life cycle stages have been assessed according to ISO 14040:2006. Data quality is judged by its precision (measured, calculated or estimated), completeness (e.g., are there unreported emissions?), consistency (degree of uniformity of the methodology applied on an LCA serving as a data source) and representativeness (geographical, time period, technology). Primary data collected using data collection questionnaires was used for the study and for upstream processes. GaBi 10.5 professional database 2021 was used.

4.2 Methodological Details

4.2.1 Co-Product Allocation

No allocation has been done. As no co-products are produced, the flow of materials and energy and the associated release of substances and energy into the environment is related exclusively to the cement produced.

4.2.2 End-of-life phase

End of life phase of the product has not been considered in the study since, the product fulfills the three conditions required by EN 15804:2012+A2:2019, about the exclusion of modules C1-C4 and D.

4.2.3 Declared unit

The declared unit is a reference for the product whose lifecycle impact is being assessed. The declared unit allows quantification of the environmental impacts of cement over cradle-to-gate life cycle stage. These environmental impacts are calculated on the basis of the declared unit wherein each flow related to material consumption, energy consumption, emissions, effluent and waste is scaled to the reference flow.

The declared unit is 1000 kg each of OPC, PPC, PSC, PCC, manufactured at 22 cement plants, representative of UltraTech Cement Company and covering 67% production volume, over the 'Cradle to Gate' system boundary.

4.2.4 Selection of application of LCIA categories

A list of relevant impact categories and category indicators is defined and associated with the inventory data. The environmental impact per declared unit for the following environmental impact categories were reported in the EPD according with EN15804+A2:2019 (Table 4-1), and divided into core, upstream (and downstream, if included) module.

Table 4-1. Environmental impacts indicators for EN15804+A2:2019

Impact category	Indicator	Unit
Climate change - total	Global Warming Potential total (GWP-total)	kg CO ₂ eq.
Climate change - fossil	Global Warming Potential fossil fuels (GWP-fossil)	kg CO ₂ eq.
Climate change - biogenic	Global Warming Potential biogenic (GWP-biogenic)	kg CO ₂ eq.
Climate change - luluc	Global Warming Potential land use and land use change (GWP-luluc)	kg CO ₂ eq.
Ozone Depletion	Depletion potential of the stratospheric ozone layer (ODP)	kg CFC-11 eq.
Acidification	Acidification potential, Accumulated Exceedance (AP)	Mole of H ⁺ eq.
Eutrophication aquatic freshwater	Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater)	kg P eq.
Eutrophication aquatic marine	Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine)	kg N eq.
Eutrophication terrestrial	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	Mole of N eq.

Photochemical ozone formation	Formation potential of tropospheric ozone (POCP)	kg NMVOC eq.
Depletion of abiotic resources - minerals and metals	Abiotic depletion potential for non-fossil resources (ADP-minerals & metals)	kg Sb eq.
Depletion of abiotic resources - fossil fuels	Abiotic depletion for fossil resources potential (ADP-fossil)	MJ
Water use	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	m ³ world equiv.

The consumption of natural resources per declared or function unit is reported in the EPD. Input parameters, according with EN15804+A2, describing resource use are shown in Table 4-2.

Table 4-2. Natural resources use parameters

Parameter	Unit
Renewable primary energy as energy carrier (PERE)	MJ
Renewable primary energy resources as material utilization (PERM)	MJ
Total use of renewable primary energy resources (PERT)	MJ
Non-renewable primary energy as energy carrier (PENRE)	MJ
Non-renewable primary energy as material utilization (PENRM)	MJ
Total use of non-renewable primary energy resources (PENRT)	MJ
Use of secondary material (SM)	kg
Use of renewable secondary fuels (RSF)	MJ
Use of non-renewable secondary fuels (NRSF)	MJ
Net freshwater Use (FW)	m ³

Table 4-3. Output flows and waste categories parameters

Parameter	Unit
Hazardous waste disposed (HWD)	kg
Non-hazardous waste disposed (NHWD)	kg
Radioactive waste disposed (RWD)	kg
Components for re-use (CRU)	kg
Materials for recycling (MFR)	kg
Materials for energy recovery (MER)	kg
Exported electrical energy (EEE)	MJ
Exported thermal energy (EET)	MJ

Table 4-4. Additional parameters

Impact category	Indicator	Unit
Particulate matter emissions	Potential incidence of disease due to PM emissions (PM)	Disease incidences

Ionising radiation	Potential Human exposure efficiency relative to U235 (IRP)	kBq U235 eq.
Eco-toxicity (freshwater)	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	CTUe
Human toxicity, cancer effects	Potential Comparative Toxic Unit for humans (HTP-c)	CTUh
Human toxicity, non-cancer effects	Potential Comparative Toxic Unit for humans (HTP-nc)	CTUh
Land use related impacts/ Soil quality potential	Potential soil quality index (SQP)	Pt

4.3 Cut-off Criteria

Criteria were set out in the original study for the recording of material flows and to avoid the need to pursue trivial inputs/outputs in the system. These are outlined below:

1. All energetic inputs to the process stages were recorded, including heating fuels and electricity.
2. The sum of the excluded material flows must not exceed 5% of mass, energy, or environmental relevance. However, in reality at least 99.9% of material inputs to each process stage were included.
3. Wastes representing less than 1% of total waste tonnage for given process stages were not recorded unless treated outside of the site.

4.4 System Boundaries

The scope of this study is "Cradle to gate" covering the product stage (modules A1-A3), since the product fulfils the three conditions required by EN 15804:2012+A2:2019, about the exclusion of modules C1-C4 and D. The scope covers the ecological information to be divided into raw material production (A1), inbound transportation (A2) and Manufacturing (A3).

Table 4-5. Details of system boundary included in the study

EPD Module	Life Cycle Stages	Life Cycle Sub-Stages	Definitions
A1	Materials	Primary raw materials Production	Extraction and production of raw materials such as limestone.
A2	Upstream Transport	Rail and road transport	Electricity from all sources (import from grid, captive power generation, DG set), energy, water and raw materials used in the production of cement

A3	Manufacturing	Raw material preparation	Transport of raw materials for the preparation of raw meal and clinker production & cement production.
		Clinker production at 22 plants of UltraTech Cement Limited	Production of clinker using raw meal, limestone and other raw materials.
			Combustion of primary as well as secondary fuel for clinker production.
		Cement Grinding at all the 27 plants of UltraTech Cement Limited	Grinding of fly ash, slag, gypsum, grinding aid and other additives with different proportions of clinker to form cement.
Effluent discharges (hazardous and non-hazardous) and solid waste disposal.			

4.4.1 Geographic System Boundaries

The geographical coverage of this study covers the production of 4 cement products in 22 plants in India and 2 plants in United Arab Emirates (Ajman and Abu Dhabi). Imported raw materials are considered along with transport. All the primary data has been collected from UltraTech Cement Ltd in cooperation with experts from Sphera (formerly Thinkstep AG).

4.4.2 Temporal System Boundaries

The data collection is related to one year of operation and the year of the data is indicated in the questionnaire for each data point. The data was derived for the FY 2018-2019.

4.4.3 Technology coverage

The exact technological configuration was used for the various process's operation of the plants for efficient performance in production and minimizing environmental impacts. It was assumed that secondary data from databases that were used for this assessment, were temporally and technologically comparable to that of primary data and within the temporal coverage already addressed.

4.5 Software and database

The LCA model was created using the GaBi 10.5 Software system for life cycle engineering, developed by Sphera Solutions Inc. The GaBi database provides the life cycle inventory data for several of the raw and process materials obtained from the upstream system. Detailed database documentation for GaBi datasets can be accessed at <https://gabi.sphera.com/international/support/gabi/gabi-database-2021-lci-documentation>.

4.6 Comparability

According to the standards, EPDs do not compare the environmental performance of products in the sector. Any comparison of the declared environmental performance of products lies outside the scope of these standards and is suggested to be feasible only if all compared declarations follow equal standard provisions.

4.7 Results

Modules of the life cycle included as per PCR is given in Table 4-6.

Table 4-6. Modules of the production life cycle included (X = declared module; MND = module not declared)

Production			Installation		Use stage								End-of-Life				Credits & charges outside system boundary
Raw material supply	Transport to manufacturer	Manufacturing	Transport to building site	Installation into building	Use / application	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction / demolition	Transport to EoL	Waste processing for reuse, recovery, recycle	Disposal	Reuse, recovery, or recycling potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	

The scope of this study is "Cradle to gate" covering the product stage (modules A1-A3), since the product fulfills the three conditions required by EN 15804:2012+A2:2019, about the exclusion of modules C1-C4 and D. The scope covers the ecological information to be divided into raw material production (A1), inbound transportation (A2) and Manufacturing (A3).

4.7.1 LCIA results for 1- tonne of Ordinary Portland Cement (OPC)

The LCIA results for 1 tonne of OPC are given in Table 4-7 to Table 4-10.

Table 4-7: Environmental Impacts for 1 tonne of OPC

Parameters	Unit	A1- A3
GWP - total	kg CO ₂ eq.	9.96E+02
GWP - fossil	kg CO ₂ eq.	9.90E+02
GWP - biogenic	kg CO ₂ eq.	5.07E+00
GWP - luluc	kg CO ₂ eq.	3.13E-02
ODP	kg CFC-11 eq.	1.53E-10
AP	Mole of H ⁺ eq.	3.58E+00
EP - freshwater	kg P eq.	1.27E-04
EP - freshwater*	kg Phosphate eq.	3.91E-04
EP - marine	kg N eq.	1.04E+00
EP - terrestrial	Mole of N eq.	1.15E+01
POCP	kg NMVOC eq.	2.84E+00
ADPE	kg Sb eq.	9.80E-06
ADPF	MJ	5.95E+03
WDP	m ³ world equiv.	8.58E+00
Caption	GWP - total = global warming potential; GWP - fossil = global warming potential (fossil fuel only); GWP - biogenic = global warming potential (biogenic); GWP - luluc = global warming potential (land use only); ODP = ozone depletion; AP = acidification terrestrial and freshwater; EP - freshwater = eutrophication potential (freshwater); EP - marine = eutrophication potential (marine); EP - terrestrial = eutrophication potential (terrestrial); POCP = photochemical ozone formation; ADPE = abiotic depletion potential (element), ADPF = abiotic depletion potential	

*)Discalmer: EP-freshwater indicator has also been calculated as "kg P eq." as required in the characterization model (EU-TREND model, Bouffé et al., 2009), as implemented in ReCiPe; <http://epicr.europa.eu/LCDN/developed/EF.xml>) in addition to "kg PO₄-eq." as stated in the standard.

Table 4-8. Resource use for 1-tonne of OPC

Parameters	Unit	A1- A3
PERE	MJ	7.75E+01
PERM	MJ	0.00E+00
PERT	MJ	7.75E+01
PENRE	MJ	5.96E+03
PENRM	MJ	0.00E+00
PENRT	MJ	5.96E+03
SM	kg	3.18E+01
RSF	MJ	2.03E+01
NRSF	MJ	5.52E+01
FW	m ³	2.70E-01
Caption	PERE = Use of renewable primary energy as energy carrier; PERM = Use of renewable primary energy as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy as energy carrier; PENRM = Use of non-renewable primary energy as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water	

Table 4-9: Output flows and waste categories for 1-tonne of OPC

Parameters	Unit	A1- A3
HWD	kg	4.86E-08
NHWD	kg	3.73E-01
RWD	kg	0.00E+00
CRU	kg	0.00E+00
MFR	kg	0.00E+00
MER	kg	0.00E+00
EEE	MJ	0.00E+00
EET	MJ	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy, EET = Exported thermal energy	

Table 4-10: Additional Environmental parameters for 1-tonne of OPC

Parameters	Unit	A1- A3
PM	Disease incidences	4.52E-05
IR	kBq U235 eq.	4.68E-01
ETF-fw	CTUe	1.85E+03
HTP-c	CTUh	5.50E-08
HTP-nc	CTUh	3.49E-06
SQP	Pt	6.14E+01
Caption	PM = Particulate matter emissions; IR = Ionizing radiation, human health; ETF-fw = Eco-toxicity (freshwater); HTP-c = Human toxicity, cancer effects; HTP-nc = Human toxicity, non-cancer effects, SQP = Soil quality potential/ Land use related impacts	

4.7.2.1 LCA results for 1-tonne of Poznańska Portland Cement (PPC)

The LCA results for 1 tonne of PPC are given in Table 4-11 to Table 4-14.

Table 4-11. Environmental Impacts for 1-tonne of PPC

Parameters	Unit	A1- A3
GWP - total	kg CO ₂ eq.	7.10E+02
GWP - fossil	kg CO ₂ eq.	7.06E+02
GWP - biogenic	kg CO ₂ eq.	3.72E+00
GWP - luluc	kg CO ₂ eq.	2.44E-02
ODP	kg CFC-11 eq.	1.14E-10
AP	Mole of H ⁺ eq.	2.72E+00
EP - freshwater	kg P eq.	9.24E-05
EP - freshwater*	kg Phosphate eq.	2.84E-04
EP - marine	kg N eq.	7.65E-01
EP - terrestrial	Mole of N eq.	8.45E+00
POCP	kg NMVOC eq.	2.09E+00
ADPE	kg Sb eq.	7.27E-06
ADPF	MJ	4.44E+03
WDP	m ³ world equiv.	6.82E+00
Caption	GWP - total = global warming potential; GWP - fossil = global warming potential (fossil fuel only); GWP - biogenic = global warming potential (biogenic); GWP - luluc = global warming potential (land use only); ODP = ozone depletion; AP = acidification terrestrial and freshwater; EP - freshwater = eutrophication potential (freshwater); EP - marine = eutrophication potential (marine); EP - terrestrial = eutrophication potential (terrestrial); POCP = photochemical ozone formation; ADPE = abiotic depletion potential (element); ADPF = abiotic depletion potential (fossil); WDP = water scarcity.	

Table 4-12. Resource use for 1-tonne of PPC

Parameters	Unit	A1- A3
PERE	MJ	5.96E+01
PERM	MJ	0.00E+00
PERT	MJ	5.96E+01
PENRE	MJ	4.44E+03
PENRM	MJ	0.00E+00
PENRT	MJ	4.44E+03
SM	kg	3.55E+02
RSF	MJ	1.39E+01
NRSF	MJ	3.79E+01
FW	m ³	2.17E-01
Caption	PERE = Use of renewable primary energy as energy carrier; PERM = Use of renewable primary energy as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy as energy carrier; PENRM = Use of non-renewable primary energy as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water	

Table 4-13: Output flows and waste categories for 1-tonne of PPC

Parameters	Unit	A1- A3
HWD	kg	3.85E-08
NHWD	kg	2.85E-01
RWD	kg	0.00E+00
CRU	kg	0.00E+00
MFR	kg	0.00E+00
MER	kg	0.00E+00
EEE	MJ	0.00E+00
EET	MJ	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy.	

Table 4-14: Additional Environmental parameters for 1-tonne of PPC

Parameters	Unit	A1- A3
PM	Disease incidences	3.48E-05
IR	kBq U235 eq.	3.52E-01
ETF-fw	CTUe	1.38E+03
HTP-c	CTUh	4.09E-08
HTP-nc	CTUh	2.49E-06
SQP	Pt	4.64E+01
Caption	PM = Particulate matter emissions; IR = Ionizing radiation, human health; ETF-fw = Eco-toxicity (freshwater); HTP-c = Human toxicity, cancer effects; HTP-nc = Human toxicity, non-cancer effects; SQP = Soil quality potential/ Land use related impacts	

4.7.3 LCIA results for 1- tonne of Portland Sieg Cement (PSC)

The LCIA results for 1 tonne of PSC are given in Table 4-15 to Table 4-18:

Table 4-15: Environmental impacts for 1-tonne of PSC

Parameters	Unit	A1- A3
GWP - total	kg CO ₂ eq.	4.87E+02
GWP - fossil	kg CO ₂ eq.	4.85E+02
GWP - biogenic	kg CO ₂ eq.	2.62E+00
GWP - luluc	kg CO ₂ eq.	1.73E-02
ODP	kg CFC-11 eq.	8.00E-11
AP	Mole of H+ eq.	2.98E+00
EP - freshwater	kg P eq.	6.53E-05
EP - freshwater*	kg Phosphate eq.	2.00E-04
EP - marine	kg N eq.	7.85E-01
EP - terrestrial	Mole of N eq.	8.64E+00
POCP	kg NMVOC eq.	2.16E+00
ADPE	kg Sb eq.	5.58E-06
ADPF	MJ	3.48E+03
WDP	m ³ world equiv.	5.30E+00

Caption	GWP - total = global warming potential; GWP - fossil = global warming potential (fossil fuel only); GWP - biogenic = global warming potential (biogenic); GWP - land use = global warming potential (land use only); ODP = ozone depletion; AP = acidification (terrestrial and freshwater); EP - freshwater = eutrophication potential (freshwater); EP - marine = eutrophication potential (marine); EP-terrestrial = eutrophication potential (terrestrial); POCP = photochemical ozone formation; ADPE = abiotic depletion potential (element), ADPF = abiotic depletion potential (fossil); WDP = water scarcity.
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Table 4-16. Resource use for 1-tonne of PSC

Parameters	Unit	A1- A3
PERE	MJ	4.36E+01
PERM	MJ	0.00E+00
PERT	MJ	4.36E+01
PENRE	MJ	3.48E+03
PENRM	MJ	0.00E+00
PENRT	MJ	3.48E+03
SM	kg	6.21E+02
RSF	MJ	1.31E+01
NRSF	MJ	3.56E+01
FW	m ³	1.66E-01
Caption	PERE = Use of renewable primary energy as energy carrier; PERM = Use of renewable primary energy as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy as energy carrier; PENRM = Use of non-renewable primary energy as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water	

Table 4-17: Output flows and waste categories for 1-tonne of PSC

Parameters	Unit	A1- A3
HWD	kg	2.94E-08
NHWD	kg	2.09E-01
RWD	kg	0.00E+00
CRU	kg	0.00E+00
MFR	kg	0.00E+00
MER	kg	0.00E+00
EEE	MJ	0.00E+00
EET	MJ	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy	

Table 4-18: Additional Environmental parameters for 1-tonne of PSC

Parameters	Unit	A1- A3
PM	Disease incidences	4.26E-05
IR	kBq U235 eq.	2.55E-01
ETF-fw	CTUe	1.09E+03
HTP-c	CTUh	3.05E-08
HTP-nc	CTUh	1.70E-06
SQP	Pt	3.38E+01



Caption	PM = Particulate matter emissions; IR = Ionizing radiation, human health; ETL/fw = Eco-toxicity (freshwater); HTP-c = Human toxicity, cancer effects; HTP-nc = Human toxicity, non-cancer effects, SQP = Soil quality potential/ Land use related impacts
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4.7.4 LCIA results for 1- tonne of Portland Composite Cement (PCC)

The LCIA result for 1 tonne of PCC are given in Table 4-19 to Table 4-22.

Table 4-19. Environmental impacts for 1-tonne of PCC

Parameters	Unit	A1- A3
GWP - total	kg CO ₂ eq.	5.41E+02
GWP - fossil	kg CO ₂ eq.	5.38E+02
GWP - biogenic	kg CO ₂ eq.	2.92E+00
GWP - luluc	kg CO ₂ eq.	2.16E-02
ODP	kg CFC-11 eq.	8.91E-11
AP	Mole of H+ eq.	2.64E+00
EP - freshwater	kg P eq.	7.27E-05
EP - freshwater*	kg Phosphate eq.	2.23E-04
EP - marine	kg N eq.	7.10E-01
EP - terrestrial	Mole of N eq.	7.82E+00
POCP	kg NMVOC eq.	1.95E+00
ADPE	kg Sb eq.	5.96E-06
ADPF	MJ	3.66E+03
WDP	m ³ world equiv.	5.78E+00
Caption	GWP - total = global warming potential; GWP - fossil = global warming potential (fossil fuel only); GWP - biogenic = global warming potential (biogenic); GWP - luluc = global warming potential (land use only); ODP = ozone depletion; AP = acidification terrestrial and freshwater; EP - freshwater = eutrophication potential (freshwater); EP - marine = eutrophication potential (marine); EP - terrestrial = eutrophication potential (terrestrial); POCP = photochemical ozone formation; ADPE = abiotic depletion potential (element), ADPF = abiotic depletion potential (fossil) WDP = water scarcity.	

Table 4-20. Resource use for 1-tonne of PCC

Parameters	Unit	A1- A3
PERE	MJ	5.00E+01
PERM	MJ	0.00E+00
PERT	MJ	5.00E+01
PENRE	MJ	3.66E+03
PENRM	MJ	0.00E+00
PENRT	MJ	3.66E+03
SM	kg	5.28E+02
RSF	MJ	9.86E+00
NRSF	MJ	2.68E+01
FW	m ³	1.90E-01
Caption	PERE = Use of renewable primary energy as energy carrier; PERM = Use of renewable primary energy as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy as energy carrier; PENRM = Use of non-renewable primary energy as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water	

Table 4-21: Output flows and waste categories for 1-tonne of PCC

Parameters	Unit	A1- A3
HWD	kg	3.35E-08
NHWD	kg	2.34E-01
RWD	kg	0.00E+00
CRU	kg	0.00E+00
MFR	kg	0.00E+00
MER	kg	0.00E+00
EEE	MJ	0.00E+00
EET	MJ	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy	

Table 4-22: Additional Environmental parameters for 1-tonne of PCC

Parameters	Unit	A1- A3
PM	Disease Incidences	3.59E-05
IR	kBq U235 eq.	2.84E-01
ETF-fw	CTUe	1.14E+03
HTP-c	CTUh	3.31E-08
HTP-nc	CTUh	1.89E-06
SQP	Pt	3.81E+01
Caption	PM = Particulate matter emissions; IR = Ionizing radiation, human health; ETF-fw = Ecotoxicity (freshwater); HTP-c = Human toxicity, cancer effects; HTP-nc = Human toxicity, non-cancer effects; SQP = Soil quality potential/ Land use related impacts	

4.8 Interpretation

The interpretation of the results for 1-tonne of cement products (OPC, PPC, PSC, PCC) are presented in Table 4-23 - Table 4-26.

Table 4-23. Interpretation of most significant contributors to life cycle parameters (1-tonne OPC)

Parameter		Most significant contributor
Abiotic Depletion Potential (ADP) - Elements		The total cradle to gate impact is 9.80E-06 kg Sb eq. In A1 - A3 module more than 98.00% impact is due to the gypsum used in grinding process.
Acidification Potential (AP)		The total cradle to gate impact is 3.58 Mole of H ⁺ eq. In A1 - A3, the major contribution is from clinker production (35.90%) and clinker transportation (39.40%).
Eutrophication Potential (EP)		The total cradle to gate impact is 1.27E-04 kg P eq. In A1 - A3, the major contribution is from clinker production (47.50%) followed by clinker transportation (41.60%).
Global Warming Potential (GWP 100 years)		The total cradle to gate impact is 995.560 kg CO ₂ eq. In A1 - A3, major contribution is from clinker production (81.01%).
Ozone Layer Depletion Potential (ODP, steady state)		The total cradle to gate impact is 1.53E-10 kg CFC-11 eq. In module A1 - A3, the impacts are due to the bauxite consumption in raw meal preparation.
Photochemical Ozone Creation Potential (POCP)		The total cradle to gate impact is 2.84 kg NMVOC eq. In module A1 - A3, major contribution from clinker production (61.10%) and clinker transport (11.60%).
Abiotic depletion potential (ADP) - Fossil		The total cradle to gate impact is 5952.77 MJ. In A1- A3 module, the major contribution is from clinker production (57.40%) and clinker transport (17.20%).

Table 4-24: Interpretation of most significant contributors to life cycle parameters (L'fonne PPC)

Parameter		Most significant contributor
Abiotic Depletion Potential (ADP) - Elements		The total cradle to gate impact is 7.27E-06 kg Sb eq. In A1 - A3 module more than 98.00% impact is due to the gypsum used in grinding process.
Acidification Potential (AP)		The total cradle to gate impact is 2.72 Mole of H+ eq. In A1 - A3, the major contribution is from clinker production (32.30%) followed by clinker transportation (35.40%).
Eutrophication Potential (EP)		The total cradle to gate impact is 9.24E-05 kg P eq. In A1 - A3, the major contribution is from clinker production (44.50%) followed by clinker transportation (39.00%).
Global Warming Potential (GWP 100 years)		The total cradle to gate impact is 709.547 kg CO ₂ eq. In A1 - A3, major contribution is from clinker production (78.10%).
Ozone Layer Depletion Potential (ODP, steady state)		The total cradle to gate impact is 1.14E-10 kg CFC-11 eq. In module A1 - A3, the impacts are due to the bauxite consumption in raw meal preparation.
Photochemical Ozone Creation Potential (POCP)		The total cradle to gate impact is 2.09 kg NMVOC eq. In module A1 - A3, major contribution is from clinker production (56.90%) and clinker transport (10.80%).
Abiotic depletion potential (ADP) - Fossil		The total cradle to gate impact is 4440.60 MJ. In A1- A3 module, major contribution is from clinker production (52.90%) and the clinker transport (15.80%).

Table 4-25: Interpretation of most significant contributors to life cycle parameters (1-tonne PSC)

Parameter		Most significant contributor
Abiotic Depletion Potential (ADP) - Elements		The total cradle to gate impact is 5.58E-06 kg Sb eq. In A1 - A3 module more than 98.00% impact is due to the gypsum used in grinding process.
Acidification Potential (AP)		The total cradle to gate impact is 2.98 Mole of H+ eq. In A1 - A3, the major contribution is from cement grinding (30.50%), clinker production (25.30%) and clinker transportation (27.80%).
Eutrophication Potential (EP)		The total cradle to gate impact is 6.53E-05 kg P eq. In A1 - A3, the major contribution is from clinker production (35.80%) followed by clinker transportation (31.40%) and cement grinding (26.20%).
Global Warming Potential (GWP 100 years)		The total cradle to gate impact is 487.456 kg CO ₂ eq. In A1 - A3, major contribution is from clinker production (75.70%).
Ozone Layer Depletion Potential (ODP, steady state)		The total cradle to gate impact is 8.00E-11 kg CFC-11 eq. In module A1 - A3, the impacts are due to the bauxite consumption in raw meal preparation.
Photochemical Ozone Creation Potential (POCP)		The total cradle to gate impact is 2.16 kg NMVOC eq. In module A1 - A3, major contribution from clinker production (42.20%) and cement grinding process (30.00%).
Abiotic depletion potential (ADP) - Fossil		The total cradle to gate impact is 3478.14 MJ. In A1- A3 module, major contribution is from clinker production (49.50%) followed by cement grinding (18.60%) and clinker transport (14.80%).

Table 4-26: Interpretation of most significant contributors to life cycle parameters (1-tonne PCC)

Parameter		Most significant contributor
Abiotic Depletion Potential (ADP) - Elements		The total cradle to gate impact is 5.96E-06 kg Sb eq. In A1 - A3 module more than 98.00% impact is due to the gypsum used in grinding process.
Acidification Potential (AP)		The total cradle to gate impact is 2.64 Mole of H+ eq. In A1 - A3, the major contribution is from cement grinding (32.60%), clinker production (23.50%) and clinker transportation (25.80%).
Eutrophication Potential (EP)		The total cradle to gate impact is 7.27E-05 kg P eq. In A1 - A3, the major contribution is from clinker production (34.10%) followed by clinker transportation (29.90%) and cement grinding (28.80%).
Global Warming Potential (GWP 100 years)		The total cradle to gate impact is 540.793 kg CO ₂ eq. In A1 - A3, major contribution is from clinker production (72.20%).
Ozone Layer Depletion Potential (ODP, steady state)		The total cradle to gate impact is 8.91E-11 kg CFC-11 eq. In module A1 - A3, the impacts are due to the bauxite consumption in raw meal preparation.
Photochemical Ozone Creation Potential (POCP)		The total cradle to gate impact is 1.95 kg NMVOC eq. In module A1 - A3, major contribution is from clinker production (40.70%) and cement grinding process (28.40%).
Abiotic depletion potential (ADP) - Fossil		The total cradle to gate impact is 3659.40 MJ. In A1- A3 module, major contribution is from clinker production (45.50%) and cement grinding (22.80%).

Concluding, the study provides fair understanding of environmental impacts during the various life cycle stages of cement production. It also identifies the hot spots in the value chain where improvement activities can be prioritised and accordingly investment can be planned. The scope covers the ecological information to be divided into raw material production (A1), transportation (A2) and Manufacturing (A3).

5. LCA Terminology

Cradle to Gate	Scope of study extends from mining of natural resources to the completed product ready for shipping from the manufacturing dispatch "gate", known as Modules A1-A3.
Cradle to Grave	Scope of study extends from mining of natural resources to manufacture, use and disposal of products at End of Life, including all Modules A-D.
End of life	Post-use phase life cycle stages involving collection and processing of materials (e.g., scrap) and recycling or disposal, known as Modules C and D.

6. Other Environmental Information

The constituent materials used within our products are responsibly sourced and we apply the principles of Sustainable Development and of Environmental Stewardship as a standard business practice in our operations. Protecting the environment by preserving non-renewable natural resources, increasing energy efficiency, reducing the environmental emissions, limiting the impact of materials transportation to and from our operations is part of our way in doing business.

Products do not contain any substances that can be included in "Candidate List of Substances of Very High Concern for Authorization" and raw materials used are not part of the EU REACH regulation.

7. References

- EN 15804: 2012+A2:2019, Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
- EVS-EN 16908:2017, Sub-PCR Cement and building lime- Environmental product declarations-Product category rules complementary to EN 15804. (Estonian Centre for Standardization)
- GaBi 10 2021: Dokumentation der GaBi-Datensätze der Datenbank zur Ganzheitlichen Bilanzierung. LBP, Universität Stuttgart und PE International, 2012
- GaBi 10 2021: Software und Datenbank zur Ganzheitlichen Bilanzierung. LBP, Universität Stuttgart und PE International, 2012
- ISO 14020:2000 Environmental labels and declarations - General principles
- ISO 14025:2006 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
- ISO 14040:2006 Environmental management- Life cycle assessment - Principles and framework
- ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
- ISO 21930:2007 Sustainability in Building Construction - Environmental Declaration of Building Products.



14-06-2024

TO WHOM SO EVER IT MAY CONCERN

We M/s Ultratech Cement Limited are supplying ready mix concrete to M/s Eversendal construction for construction purpose at DLF project in Chennai, Tamilnadu.

Our plant was located at pudhupakkam Village, kelambakkam vandaloor road which is 30Km from site.

Recycled content in our product

- a. Post Industrial : 20-45%
- b. Post Consumer : Nil

Thanks & Regards,

T.SUBRAMANI

QC IN charge,

Ultratech Cement Ltd. – RMC Division (UNIT-2),

5/16 B ABDULKALAM SALAI,
PUDUPAKKAM VILLAGE,
KELAMBAKKAM-603103.



UltraTech Cement Limited

(Unit: UltraTech Concrete)

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CIN: L26940MH2000PLC128A20

Registered Office:
'B' Wing Ahura Centre,
2nd Floor, Mahakul Cavas Road,
Andheri (E), Mumbai-400 093

Annexure-XXI
Copy of Agreement for E-Waste

DT-5.1 Agreement

DATE

[01/04/2026]

CONSULTANT

SERVICES AGREEMENT

between

CBRE SOUTH ASIA PRIVATE LIMITED

and

ASIA REGENERATORS



A handwritten signature in blue ink, appearing to read "Vikram Panwar".

Vikram Panwar-SPOC

For ASIA REGENERATORS

A handwritten signature in blue ink above a blue stamp that reads "PARTNER".

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20/5/20


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THIS AGREEMENT is dated 01/04/2026

PARTIES

- (1) **CBRE SOUTH ASIA PRIVATE LIMITED**, a company incorporated under the Companies Act, 1956 and having its registered office at PTI Building, Ground Floor, 4 Sansad Marg, New Delhi – 110 001 (**Project Manager**).
- (2) **Asia Regenerators** a company incorporated under the Companies Act, 1956 and having its registered office at No:7,MTH Road,Padi,Chennai,Tamil Nadu,Pin code:600050 (**Consultant**).

BACKGROUND


- A. Project Manager is engaged by its Client(s) for providing various project management services for the Project(s).
- B. Project Manager seeks to engage the Consultant to services deemed necessary for the Project(s).
- C. Consultant possesses the requisite skills, training, expertise and experience to perform the services called for under the Contract and/or in any individual LOI, PO or SOW and wishes to perform such services based on the terms and conditions herein.

AGREED TERMS AND CONDITIONS

1. INTERPRETATION

The following definitions and rules of interpretation apply in this Contract.

1.1 Definitions


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Applicable Laws: all applicable regional, country, and local statutes, laws (including the common law), ordinances, rules, codes, and regulations governing the Consultant, the Services and the Site, including those of applicable regulatory bodies, governmental agencies, tribunals, instrumentalities, or any subdivisions thereof or other applicable entities exercising executive, legislative, judicial, taxing, regulatory or administrative powers of or pertaining to government including, without limitation, applicable import and export control laws, anti-corruption laws prohibiting the payment of commercial or private bribes, and any other applicable anti-corruption laws.

Contract: defined in clause 2.1.

Client Data: all data and information, in any form, provided or made available to the Consultant by or on behalf of Client or its affiliates or otherwise obtained or created by the Consultant for or on behalf of Client or its affiliates, including (i) all data and information obtained, developed or produced by the Consultant specifically for the benefit of Client in connection with this Contract, (ii) all Client data and information to which the Consultant has access in connection with this Contract, (iii) all reports provided to CBRE or Client by the Consultant pursuant to this Contract, and (iv) all data and information derived from Client data and information provided or made available to the Consultant by or on behalf of Client or its affiliates.

Client Policies: each of the policies, procedures and guidelines of the Client applicable to the Site, including but not limited to, policies set out in **Error! Reference source not found.** as such policies may be amended, substituted or replaced from time to time by notice from the Client to the Project Manager and communicated to Consultant by Project Manager or Client.

Consultant's Equipment: any equipment, including tools, systems, cabling or facilities, required directly or indirectly for the supply of the Services.

Consultant's Manager: the Consultant's manager for the Services, appointed in accordance with clause 4.3.


Consultant's Team: the Consultant's Manager and all employees, sub-consultants, agents and subcontractors which it engages in relation to the Services.

Contractors: any or all of the consultants and/or contractors (other than the PMC and the Consultant) appointed by the Client to undertake construction and other functions in connection with the Project.

Data Protection Legislation: any Applicable Law in force from time to time relating to privacy legislation and guidance issued by data protection regulators in the relevant jurisdiction.

Deliverables: all Documents, products and materials developed by the Consultant or its agents, subcontractors, consultants and employees in relation to the Services in any form, including, data, reports and specifications (including drafts).

Document: includes, in addition to any document in writing, any drawing, map, plan, diagram, design, picture or other image, tape, disk or other device or record embodying information in any form.


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Personal Data: any Personal Data (as defined in Applicable Laws) in respect of which CBRE (or any member of its group), or any Client or its officers, directors, shareholders, employees, agents, representatives, subsidiaries, affiliates, successors, and assigns, is a Data Controller (as defined in Clause 10), and which is Processed by the Consultant under or in connection with this Contract from time to time.

Process: "Process" has the meaning given to it under the Data Protection Legislation but, for the purposes of this Contract, it shall include both manual and automatic processing.

Project Manager's Manager: the Project Manager's manager for the Services appointed under clause 5.1(a).

Government Official: any person employed by or acting on behalf of a government, government-controlled entity, public international organization, political party or candidate for political office.

In-put Material: all Documents, information and materials provided by the Client(s) and/or Project Manager relating to the Services, including data, reports and specifications.

Intellectual Property Rights: patents, rights to inventions, copyright and related rights, trade marks, business names and domain names, rights in get-up, goodwill and the right to sue for passing off, rights in designs, database rights, rights to use, and protect the confidentiality of, confidential information (including know-how), and all other intellectual property rights, in each case whether registered or unregistered and including all applications and rights to apply for and be granted, renewals or extensions of, and rights to claim priority from, such rights and all similar or equivalent rights or forms of protection which subsist or will subsist now or in the future in any part of the world.

LOI: an individual letter of intent as may be issued by the Project Manager to the Consultant from time-to-time in respect of the provision of Services for a particular Project or Projects, which shall be subject to the terms of the Contract.

PO: an individual purchase order as may be issued by the Project Manager to the Consultant from time-to-time in respect of the provision of Services for a particular Project or Projects, which shall be subject to the terms of the Contract.

Pre-existing Materials: all Documents and information and provided by the Project Manager and/or the relevant Client relating to the Services which existed prior to the commencement of the Contract, including data, reports and specifications.

Project: the project, more fully described in Schedule 2 and/or in any individual LOI, PO or SOW, with which the Client is proceeding and for which the services of the Consultant have been engaged.

Services: the services to be provided by the Consultant under the Contract set out in Schedule 2 and/or in individual LOI, PO or SOW together with any other services which the Consultant provides or agrees to provide to the Project Manager.

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Site: the Project site identified in Schedule 2 and/or in the relevant LOI, PO or SOW for which Services are required.

Special Conditions: the special conditions set out in Schedule 1 (Special Conditions).

Statement of Work or SOW: an individual statement of work as may be issued by the Project Manager to the Consultant from time-to-time in respect of the provision of Services for a particular Project or Projects, which shall be subject to the terms of the Contract.

- 1.2 Clause, Schedule and paragraph headings shall not affect the interpretation of the Contract.
- 1.3 A **person** includes a natural person, corporate or unincorporated body (whether or not having separate legal personality) and that person's personal representatives, successors and permitted assigns.
- 1.4 The Schedules form part of the Contract and shall have effect as if set out in full in the body of the Contract. Any reference to the Contract includes the Schedules.
- 1.5 Unless the context otherwise requires, words in the singular shall include the plural and in the plural shall include the singular.
- 1.6 Unless the context otherwise requires, a reference to one gender shall include a reference to the other genders.
- 1.7 A reference to any party shall include that party's personal representatives, successors and permitted assigns.
- 1.8 A reference to a statute or statutory provision is a reference to it as amended, extended or re-enacted from time to time.
- 1.9 A reference to a statute or statutory provision shall include all subordinate legislation made from time to time under that statute or statutory provision.
- 1.10 Any obligation on a party not to do something includes an obligation not to allow that thing to be done.
- 1.11 References to clauses and Schedules are to the clauses and Schedules of the Contract and references to paragraphs are to paragraphs of the relevant Schedule.



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- 1.12 Any words following the terms **including, include, in particular, for example** or any similar expression shall be construed as illustrative and shall not limit the sense of the words, description, definition, phrase or term preceding those terms.

2. EVIDENCE OF CONTRACT AND PRECEDENCE OF DOCUMENTS

- 2.1 The **Contract** consists of the following documents:

- (a) Schedule 1 (Special Conditions);
- (b) these Terms and Conditions.
- (c) Schedule 2 (Services);
- (d) Schedule 3 (Prices);
- (e) Client Policies); and
- (f) and other Schedules.

- 2.2 If there is any conflict or inconsistency between the documents constituting the **Contract**, unless otherwise provided, the documents will rank in order of precedence in accordance with the order in which they are listed in clause 2.1.

- 2.3 If there is any conflict or inconsistency between a LOI, PO or SOW and the **Contract**, the **Contract** will prevail to the extent of that conflict or inconsistency.

3. COMMENCEMENT AND DURATION

- 3.1 The Consultant shall provide the Services on the terms and conditions of the **Contract** and any applicable LOI, PO or SOW.

- 3.2 The Consultant shall provide the Services from the date as set out in Schedule 2 and/or the relevant LOI, PO or SOW.

- 3.3 The **Contract** shall be effective as of the [01/04/2025] and shall remain in full force and effect until the [31/03/2030] unless the **Contract** is terminated in accordance with the terms of the **Contract**.

4. CONSULTANT'S OBLIGATIONS

- 4.1 The Consultant shall provide the Services, and deliver the Deliverables, in accordance with the specifications set out in **Error! Reference source not found.** and/or the relevant LOI, PO or SOW and shall allocate sufficient resources to the Services to enable it to comply with this obligation.


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4.2 The Consultant shall meet, and time is of the essence as to, any performance dates specified in **Error! Reference source not found.** and/or relevant LOI, PO or SOW. If the Consultant fails to do so, the Project Manager may (without prejudice to any other rights it may have):

- (a) terminate the relevant LOI, PO or SOW and/or this Contract and in whole or in part without liability to the Consultant;
- (b) refuse to accept any subsequent performance of the Services which the Consultant attempts to make;
- (c) purchase substitute services from elsewhere;
- (d) hold the Consultant accountable for any loss and additional costs incurred; and
- (e) have all sums previously paid by the Project Manager to the Consultant under this Contract and/or the relevant LOI, PO or SOW refunded by the Consultant.

4.3 The Consultant shall:

- (a) co-operate with the Project Manager, the Client and the Contractors in all matters relating to the Services;
- (b) subject to the prior written approval of the Project Manger, appoint or, at the request of the Project Manager, replace without delay:
 - (i) the Consultant's Manager, who shall have authority under this Contract contractually to bind the Consultant on all matters relating to the Services; and
 - (ii) any member of the Consultant's Team, who shall be suitably skilled, experienced and qualified to carry out the Services.
- (c) subject to clause 4.3(b), ensure that the same person acts as the Consultant's Manager throughout the term of this Contract;
- (d) procure the availability of the Consultant's Manager to provide the Services during the term of this Contract;
- (e) promptly inform the Project Manager of the absence (or anticipated absence) of the Consultant's Manager, or any member of the Consultant's Team;
- (f) not make any changes to the Consultant's Manager or the Consultant's Team without the prior written approval of the Project Manager; and
- (g) ensure that the Consultant's Team use reasonable skill and care in the performance of the Services.

4.4 The Consultant shall:

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- (a) observe, and ensure that the Consultant's Team observe, all health and safety rules and regulations and any other security requirements that apply at the relevant Site;
- (b) comply, and ensure that the Consultant's Team comply, with the Client Policies;
- (c) notify the Project Manager as soon as it becomes aware of any health and safety hazards or issues which arise in relation to the Services;
- (d) unless otherwise provided in **Error! Reference source not found.Error! Reference source not found.**, supply all the Consultant's Equipment; and
- (e) before the date on which the Services are to start, obtain, and at all times maintain, all necessary licences and consents and comply with all relevant legislation in relation to:
 - (i) the Services;
 - (ii) the use of In-put Material; and
 - (iii) the use of all Documents, information and materials provided by the Consultant or its agents, subcontractors, consultants or employees relating to the Services which existed prior to the commencement of this Contract, including computer programs, data, reports and specifications.

4.5 The Consultant shall:

- (a) not use the name of the Project Manager (CBRE or the Client's name) in any manner either for credit arrangement or otherwise and it is agreed that the Project Manager shall not in any way be responsible for the debts, liabilities or obligations of the Consultant or the employees of the Consultant;
- (b) not disclose to the Project Manager, bring onto the Site or induce the Project Manager to use any confidential or proprietary information that belongs to anyone other than the Project Manager or the Consultant; and
- (c) fulfil all statutory requirements related to applicable laws.

4.6 The Consultant acknowledges and agrees that:

- (a) if it considers that the Project Manager is not, or may not, be complying with any of the Project Manager's obligations, it shall only be entitled to rely on this as relieving the Consultant's performance under the relevant LOI, PO or SOW:
 - (i) to the extent that it restricts or precludes performance of the Services by the Consultant; and

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- (ii) if the Consultant, promptly after the actual or potential non-compliance has come to its attention, has notified details to the Project Manager in writing.

5. PROJECT MANAGER'S OBLIGATIONS

5.1 The Project Manager shall:

- (a) co-operate with the Consultant in all matters relating to the Services and appoint (and, as it thinks fit, replace) the Project Manager's Manager, who shall have the authority contractually to bind the Project Manager on matters relating to the Services;
- (b) make reasonable endeavours to provide such access to the Client's premises and data, and such office accommodation and other facilities as may reasonably be requested by the Consultant and agreed with the Project Manager in writing in advance, for the purposes of the Services;
- (c) provide the In-put Material as the Consultant may reasonably request and the Project Manager considers reasonably necessary, in order to carry out the Services, in a timely manner, and ensure that it is accurate in all material respects; and
- (d) inform the Consultant of all health and safety rules and regulations and any other reasonable security requirements that apply at the relevant Site.

6. CHANGE CONTROL

- 6.1 If either party wishes to change the scope or execution of the Services, it shall submit details of the requested change to the other in writing.
- 6.2 If either party requests a change to the scope or execution of the Services, the Consultant shall, within a reasonable time, provide a written estimate to the Project Manager of:
 - (a) the likely time required to implement the change;
 - (b) any necessary variations to the Consultant's charges arising from the change;
 - (c) the likely effect of the change in timelines set out in **Error! Reference source not found.** and/or relevant LOI, PO or SOW; and
 - (d) any other impact of the change on the Contract.
- 6.3 Unless both parties consent to a proposed change, there shall be no change to this Contract and the relevant LOI, PO or SOW.


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- 6.4 If both parties consent to a proposed change, the change shall be made, only after agreement of the necessary variations to the Consultant's charges, the Services, timelines set out in **Error! Reference source not found.** and/or relevant LOI, PO or SOW, and any other relevant terms of this Contract and/or relevant LOI, PO or SOW to take account of the change that has been reached and this Contract has been varied in accordance with clause **Error! Reference source not found.**

7. CHARGES AND PAYMENT

- 7.1 In consideration of the provision of the Services by the Consultant, the Project Manager shall pay to the Consultant the service fee as set out in **Error! Reference source not found.** and/or relevant LOI, PO or SOW.
- 7.2 The Project Manager's Manager shall hold the authority to advise on the deductions or increment in the service fees based on the documented evidence of quality and quantity of Services rendered for the relevant Project for the preceding month.
- 7.3 All the charges payable to the Consultant in respect of this Contract and/or relevant LOI, PO or SOW shall remain firm during the term of this Contract or relevant LOI, PO or SOW.

8. QUALITY OF SERVICES

- 8.1 The Consultant warrants to the Project Manager that:
- (a) the Consultant will perform the Services with reasonable care and skill and in accordance with generally recognised commercial practices and standards;
 - (b) the Services will conform with all descriptions and specifications provided to the Consultant by the Project Manager, including the specifications set out in **Error! Reference source not found.** and/or the relevant LOI, PO or SOW; and
 - (c) the Services and Deliverables will be provided in accordance with all applicable legislation from time to time in force, and the Consultant will inform the Project Manager as soon as it becomes aware of any changes in that legislation.
- 8.2 The Consultant agrees that the Services shall be as per quality of standards as set out and expected by the Project Manager and that the Project Manager may make deductions from the payments if the Services are not as per the quality of standards set and expected by the Project Manager. The judgment of the Project Manager as to the quality of Services will be final and binding on the Consultant.


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- 8.3 The Project Manager's rights under this Contract are in addition to the statutory terms implied in favour of the Project Manager by any and all applicable statutes.
- 8.4 The provisions of this clause 8 shall survive any performance, acceptance or payment pursuant to this Contract and shall extend to any substituted or remedial services provided by the Consultant.
- 8.5 In case of any claims with respect to any defect or deficiency in Services on the part of the Consultant, such claims are to be met by the Consultant. The Consultant shall at all times indemnify, defend and hold the Project Manager harmless against all such costs, damages, losses, claims etc. which the Project Manager may have to suffer, undergo or pay to any person on account of any deficiency of Services.

9. INTELLECTUAL PROPERTY RIGHTS

- 9.1 The Consultant assigns to the Project Manager, with full title guarantee and free from all third-party rights, the Intellectual Property Rights and all other rights in the products of the Services (including the Deliverables).
- 9.2 The Consultant shall, promptly at the Project Manager's request, do (or procure to be done) all such further acts and things and the execution of all such other documents as the Project Manager may from time to time require for the purpose of securing for the Project Manager the full benefit of this Contract, including all right, title and interest in and to the Intellectual Property Rights and all other rights assigned to the Project Manager in accordance with clause 9.1.
- 9.3 All Deliverables will be considered as "works made for hire" and the sole and exclusive property of the Project Manager. To the extent that any pre-existing materials are contained in the Deliverables, said pre-existing materials must be described as such by the Consultant and the Consultant hereby grants to the Project Manager and the Client an irrevocable, worldwide, non-exclusive, paid-up, royalty-free right and license to use, execute, reproduce, perform, display, distribute, and prepare derivative works of such pre-existing material and derivative works, and to make, have made, use, sell, offer for sale and import products and processes utilizing such pre-existing materials, as well as to authorize others to do any or all of the above, but in any case limited to the extent needed by Project Manager and/or the Client to use the Deliverables.

10. CONFIDENTIALITY AND PROJECT MANAGER'S/CLIENT'S PROPERTY

- 10.1 The Consultant shall keep in strict confidence all In-put Material and all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the Consultant by the Project Manager or Client, their employees, agents, consultants or subcontractors, and any other

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Partner



confidential information concerning the Project Manger's or the Client's business or its products which the Consultant may obtain. The Consultant shall restrict disclosure of such confidential material to the Consultant's Team and to such of its other employees, agents, consultants or subcontractors as need to know it for the purpose of discharging the Consultant's obligations to the Project Manager and shall ensure that the Consultant's Team and all other employees, agents or subcontractors are subject to obligations of confidentiality corresponding to those which bind the Consultant.

- 10.2 All In-puT Materials, and all other materials, equipment and tools, drawings, specifications and data supplied by the Project Manager or Client to the Consultant shall, at all times, be and remain the exclusive property of the Project Manager or Client, as the case may be, but shall be held by the Consultant in safe custody at its own risk and maintained and kept in good condition by the Consultant until returned to the Project Manager. They shall not be disposed of or used other than in accordance with the Project Manger's written instructions or authorisation.
- 10.3 The Consultant warrants that it has or shall obtain non-disclosure, assignment of rights and other appropriate agreements with the Consultant's Team sufficient to protect the confidential information of the Project Manager and the Client.
- 10.4 In this Clause 10, the terms "Data Controller" and "Data Subject" have the meanings set out in Applicable Laws.
- 10.5 The Consultant must at all times:
- (a) comply with all applicable Data Protection Legislation;
 - (b) Process Personal Data only on behalf of CBRE (or, if so directed by CBRE, Clients) only to the extent, and in such manner, as is necessary for the purpose of lawfully performing its obligations under this Contract, or as is required by Applicable Law and otherwise in accordance with instructions given by CBRE from time to time;
 - (c) save as set out in subsection (b), not modify, duplicate, replicate, amend or alter the contents of any Personal Data;
 - (d) preserve the security and confidentiality of Personal Data and protect it against unauthorised or unlawful Processing or access, accidental loss, destruction, damage, alteration or disclosure;
 - (e) ensure that the measures employed by or on behalf of the Consultant towards compliance with its obligations in this Clause 10 are appropriate to the harm which might result from any unauthorised or unlawful Processing or access, accidental loss, destruction, damage or disclosure of Personal Data that is Personal Data and having regard to the nature of the Personal Data concerned;

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- (f) implement and comply with such other procedures and measures as CBRE may from time to time reasonably require in respect of Personal Data;
- (g) promptly provide to CBRE on request from time to time a written description of the technical and organisational measures employed for holding and Processing Personal Data and thereafter notify CBRE in writing of material changes to such measures from time to time;
- (h) notify CBRE immediately in writing (and by telephone and email if outside normal working hours) in the event of any breach by the Consultant or any sub-subcontractor of this Clause 10 or any loss of or unauthorised use or access to Personal Data (the foregoing each a "Security Incident") and thereafter promptly provide all cooperation, information and assistance and follow such instructions reasonably requested by CBRE with respect to the response to the Security Incident;
- (i) notify CBRE promptly in writing (and in any event within three (3) business days) of any data subject access request received by the Consultant (or any of its agents or subcontractors) in relation to Personal Data.
- (j) provide to CBRE copies of all Personal Data held by or on behalf of the Consultant and all other reasonable assistance in relation to a data subject who makes a subject access request satisfying the applicable legal requirements (or as otherwise directed by CBRE), whether the subject access request is given to the Consultant or any of its agents or to CBRE or a third party and CBRE gives to the Consultant details of the subject access request.
- (k) not cause or permit any subcontractor or any the Consultant's affiliate to hold or Process Personal Data without CBRE's prior written consent (to be given or withheld in CBRE's sole and absolute discretion);
- (l) ensure that any Consultant's Team, permitted sub-contractors and such sub-contractors' directors, officers, employees and agents act in accordance with this Clause 10 is bound by it as the Consultant is bound;
- (m) take all reasonable steps to ensure the reliability of any of the Consultant's Team members who have access to the Personal Data; and
- (n) ensure that only those of the Consultant's Team members who need to have access to the Personal Data are granted access to such data and only for the purposes of the performance of this Contract and all of the Consultant's Team required to access the Personal Data are informed of the confidential nature of the Personal Data and comply with the obligations set out in this Clause 10.

10.6 The Consultant shall on demand, at all times during and after the term of this Contract, indemnify CBRE (and Client) and keep CBRE (and Client) indemnified on demand and held harmless from and against all losses, damages, claims, costs, or expenses and other liabilities (including fines and legal fees) incurred by, awarded against or agreed

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to be paid by CBRE (or Client) arising out of or in connection with any breach of the Consultant's obligations under this Clause 10.

11. INDEMNIFICATION

11.1 The Consultant shall indemnify and hold the Project Manager and the Client harmless from all claims and all direct, indirect or consequential liabilities (including loss of profits, loss of business, depletion of goodwill and similar losses), costs, proceedings, damages and expenses (including legal and other professional fees and expenses) awarded against, or incurred or paid by, the Project Manager and/or the Client as a result of or in connection with:

- (a) any alleged or actual infringement, whether or not under Indian law, of any third party's Intellectual Property Rights or other rights arising out of the use or supply of the Services (including the Deliverables); or
- (b) any claim made against the Project Manager and/or the Client in respect of any liability, loss, damage, injury, cost or expense sustained by the Client and/or Project Manager's employees or agents or by any customer of the foregoing or third party to the extent that such liability, loss, damage, injury, cost or expense was caused by, relates to or arises from the provision of the Services or the Deliverables as a consequence of a breach or negligent performance or failure or delay in performance of this Contract by the Consultant.

11.2 During the term of this Contract, the Consultant shall maintain in force, with a reputable insurance company, professional indemnity insurance in an amount not less than INR _____ and shall, on the Project Manager's request, produce both the insurance certificate giving details of cover and the receipt for the current year's premium.

11.3 The provisions of this clause 11 shall survive termination of this Contract, however arising.

12. TERMINATION

12.1 The Project Manager will have the right to terminate this Contract or any part of it after giving 15 days' advance written notice without assigning any reason.

12.2 Without affecting any other right or remedy available to it, Project Manager may terminate the Contract, or the relevant LOI, PO or SOW, as the case may be, with immediate effect by giving written notice to the Consultant if:

- (a) the Consultant commits a breach of any term of the Contract and/or relevant LOI, PO or SOW which breach is irremediable or (if such breach is


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remediable) fails to remedy that breach within a period of 5 days after being notified in writing to do so;

- (b) the Consultant suspends, or threatens to suspend, payment of its debts or is unable to pay its debts as they fall due or admits inability to pay its debts;
- (c) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Consultant (being a company);
- (d) an application is made to court, or an order is made, for the appointment of an administrator, or if a notice of intention to appoint an administrator is given or if an administrator is appointed, over the Consultant (being a company);
- (e) a person becomes entitled to appoint a receiver over the assets of the Consultant or a receiver is appointed over the assets of the Consultant; or
- (f) the Consultant suspends or ceases, or threatens to suspend or cease, carrying on all or a substantial part of its business.

12.3 Termination by the Project Manager under clause 12.2 of an individual LOI, PO or SOW shall not affect other LOI's, PO'S or SOW's issued pursuant to this Contract which are continuing as on the date of such termination and such other LOI's, PO's and SOW's shall continue with full force and effect.

13. REMEDIES

13.1 If any Services are not supplied in accordance with, or the Consultant fails to comply with, any terms of this Contract and/or relevant LOI, PO or SOW, the Project Manager shall be entitled (without prejudice to any other right or remedy) to exercise any one or more of the following rights or remedies:

- (a) to rescind this Contract in whole or in part; or
- (b) to refuse to accept the provision of any further Services by the Consultant and to require the immediate repayment by the Consultant of all sums previously paid by the Project Manager to the Consultant under this Contract and/or relevant LOI, PO or SOW; or
- (c) to require the Consultant, without charge to the Project Manager, to carry out such additional work as is necessary to correct the Consultant's failure; and
- (d) in any case, to claim such damages as it may have sustained in connection with the Consultant's breach (or breaches) of this Contract not otherwise covered by the provisions of this clause 13.

14. CONSEQUENCES OF TERMINATION

14.1 On termination of this Contract and/or relevant LOI, PO or SOW for any reason, the Consultant shall immediately deliver to the Project Manager:

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- (a) all In-put Material and all copies of information and data provided by the Project Manager and/or Client to the Consultant for the purposes of this Contract and/or relevant LOI, PO or SOW. The Consultant shall certify to the Project Manager that it has not retained any copies of In-put Material or other information or data, except for one copy which the Consultant may use for audit purposes only and subject to the confidentiality obligations in clause 10; and
 - (b) all specifications, programs (including source codes) and other documentation comprised in the Deliverables and existing at the date of such termination, whether or not then complete. All Intellectual Property Rights in such materials shall automatically pass to the Project Manager (to the extent that they have not already done so by virtue of clause 9.1), who shall be entitled to enter the premises of the Consultant to take possession of them.
- 14.2 If the Consultant fails to fulfil its obligations under clause 14.1, then the Project Manager may enter the Consultant's premises and take possession of any items which should have been returned under it. Until they have been returned or repossessed, the Consultant shall be solely responsible for their safe keeping.
- 14.3 The Consultant undertakes, promises and agrees that it shall not enter into or become a direct service provider of the Client mentioned in this this Contract and/or relevant LOI, PO or SOW without obtaining a written approval from Project Manager, during the term of this Contract and until the expiry of 3 months from termination of this Contract.
- 14.4 Subject to Project Manager continuing to pay the Consultant the service fee for any Services delivered during such period, the Consultant shall (and shall ensure that the Consultant's Team shall) cooperate with the Project Manager for a period of at least six (6) months after expiry or termination, including partial termination, of all or part of this Agreement, to allow the Services to continue without interruption to the quality of the Services and to facilitate the orderly transition of the Services back to the Project Manager, the Client, or to an alternative supplier designated by the Project Manager.
- 14.5 Upon expiry or termination of all or part of this Contract, the Consultant shall, at Project Manager's option, either terminate or assign to Project Manager or its nominee any or all contracts with subcontractors engaged by the Consultant to deliver the Services then in effect.
- 14.6 On termination of this Contract (however arising) the accrued rights and liabilities of the parties as at termination, clause 9, 10, 11, 13 and **Error! Reference source not found.**, shall survive and continue in full force and effect.



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15. FORCE MAJEURE

15.1 The Project Manager reserves the right to defer the date for performance of, or payment for, the Services, or to terminate this Contract and/or relevant LOI, PO or SOW, if it is prevented from, or delayed in, carrying on its business by acts, events, omissions or accidents beyond its reasonable control, including strikes, lockouts or other industrial disputes (whether involving the workforce of the Project Manager or any other party), failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or direction, accident, breakdown of plant or machinery, fire, flood, storm or default of Consultants or subcontractors.

16. VARIATION

Subject to clause **Error! Reference source not found.**, no variation of the Contract shall be effective unless it is in writing and signed by the parties (or their authorised representatives).

17. WAIVER

No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it prevent or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall prevent or restrict the further exercise of that or any other right or remedy.

18. RIGHTS AND REMEDIES

The rights and remedies provided under the Contract are in addition to, and not exclusive of, any rights or remedies provided by law.

19. SEVERANCE

19.1 If any provision or part-provision of the Contract is or becomes invalid, illegal or unenforceable, it shall be deemed modified to the minimum extent necessary to make it valid, legal and enforceable. If such modification is not possible, the relevant provision or part-provision shall be deemed deleted. Any modification to or deletion of a provision or part-provision under this clause shall not affect the validity and enforceability of the rest of the Contract.

19.2 If any provision or part-provision of the Contract is invalid, illegal or unenforceable, the parties shall negotiate in good faith to amend such provision so that, as amended, it

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For ASIA REGENERATORS

PARTNER

is legal, valid and enforceable, and, to the greatest extent possible, achieves the intended commercial result of the original provision.

20. ENTIRE AGREEMENT

20.1 The Contract constitutes the entire agreement between the parties and supersedes and extinguishes all previous agreements, promises, assurances, warranties, representations and understandings between them, whether written or oral, relating to its subject matter.

21. ASSIGNMENT AND OTHER DEALINGS

21.1 The Consultant shall not, without the prior written consent of the Project Manager, assign, transfer, charge, mortgage, subcontract or deal in any other manner with all or any of its rights or obligations under this Contract.

21.2 The Project Manager may at any time assign, transfer, mortgage, charge or deal in any other manner with any or all of its rights and obligations under the Contract.

22. NO PARTNERSHIP OR AGENCY

22.1 Nothing in the Contract is intended to, or shall be deemed to, establish any partnership or joint venture between any of the parties, constitute any party the agent of another party, or authorise any party to make or enter into any commitments for or on behalf of any other party.

23. THIRD PARTY RIGHTS

No one other than a party to the Contract, their successors and permitted assignees, shall have any right to enforce any of its terms.

24. NOTICES

24.1 A notice given to a party under or in connection with the Contract:

- (a) shall be in writing and in English;
- (b) shall be sent to the party for the attention of the contact and at the address, fax number or e-mail listed in clause 24.2
- (c) is deemed received if prepared and sent in accordance with this clause.

24.2 The parties' addresses and contacts are as set out in this table:

Party	Contact	Address	Fax number	Email
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For ASIA REGENERATORS

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PARTNER

Asia Regenerators		7A,MTH Road,Padi,Chennai,Tamil Nadu, Pin Code 600050	-	
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25. COUNTERPARTS

25.1 The Contract may be executed in any number of counterparts, each of which when executed shall constitute a duplicate original, but all the counterparts shall together constitute the one agreement.

26. DISPUTE RESOLUTION PROCEDURE

If a dispute arises out of or in connection with the Contract or the performance, validity or enforceability of it (**Dispute**) then, either party shall give to the other written notice of the Dispute, setting out its nature and full particulars (**Dispute Notice**), together with relevant supporting documents. On service of the Dispute Notice, the parties shall attempt in good faith to resolve the Dispute. If the parties are for any reason unable to resolve the Dispute within 30 days of service of the Dispute Notice, the Dispute shall be submitted to arbitration by a sole arbitrator, appointed by agreement between the parties, under the Arbitration And Conciliation Act, 1996. In the event the Parties are unable to agree on a sole arbitrator within 30 days of a notice of claim served on one party by the other, then each party shall appoint one arbitrator and the arbitrators so appointed shall appoint the third arbitrator. The place of arbitration shall be Delhi and the language of arbitration shall be in English.

27. GOVERNING LAW

The Contract and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the laws of India and the Parties submit to exclusive jurisdiction of Indian courts.

The Contract has been entered into on the date stated at the beginning of it.


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Schedule 1 Special Conditions

1. PERSONNEL

- 1.1 The Consultant agrees and acknowledges that the Project Manager and/or the Client is not and will not become the employer of any of individual engaged or employed by the Consultant, its agents and subcontractors as a result of the performance of the Services and the Consultant shall ensure that all such individuals are paid any remuneration and provided with any right or entitlement due to them in connection with their employment or engagement by the Consultant, and the Consultant will indemnify the Project Manager and the Client against any liabilities, damages, expense, loss, cost, claim or proceedings in respect of such remuneration, right or entitlement.
- 1.2 The Consultant shall be solely responsible for payment for all fees, compensation, statutory dues and any other costs related to the Consultant's Team and that it must, if required by the Project Manager, provide the Project Manager with documents or independent audit reports adequately evidencing the same.
- 1.3 The Consultant shall ensure that any member of the Consultant's Team who has access to the Client's premises or systems execute and deliver to the Project Manager such documents relating to undertakings regarding the Client Policies, code of business conduct, Confidential Information, Intellectual Property Rights and privacy or data protection, and at Project Manager's discretion, any other document as notified to the Consultant by the Project Manager.

2. SERVICE SPECIFIC OBLIGATIONS

- 2.1 The Consultant shall prepare engineering drawings, outline specifications and estimates of cost by cubic measurements or on area basis on schedule of rates of the executing agency plus tender percentage and/ or on Bureau of Indian Standards specifications. In the absence of any rate in the aforesaid schedule of rates, the same shall be arrived at by actual analysis.
- 2.2 The Consultant will advise the Project Manager on the time and progress chart prepared by the Contractors for the completion of Project work, if required.
- 2.3 The Consultant may appoint sub-consultants in consultation with the Project Manager, if necessary after obtaining prior written consent of the Project Manager. The Consultant however shall be responsible for the direction and integration of the sub-consultants' work. The Consultant shall be solely responsible for the competency and supervision of the work entrusted to such sub-consultants.

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[Signature]
PARTNER

- 2.4 The Consultant must have the consent of the Project Manager before initiating any stage of the Consultant's duties.
- 2.5 The acknowledges and warrants that it has assumed full responsibility for items described in the scope of work set out in **Error! Reference source not found.** **Error! Reference source not found.** The Project Manager shall be allowed full access to the details of the calculations for the purpose of scrutiny for satisfying itself as to their correctness.
- 2.6 The Consultant shall advise the Project Manager regarding the work under execution during visits to the Site and submit periodic reports on Consultant's observations.
- 2.7 The Consultant shall not make any deviation, alteration or omission from the approved drawings, involving the financial implications without prior consent of the Project Manager.
- 2.8 The Consultant shall make necessary revisions as may be required by the Project Manager in the drawings and other documents submitted by the Consultant at the draft stage. Any subsequent revisions in the drawings and documents once approved required to be made by the Project Manager shall be compensated as additional services rendered by the Consultant.
- 2.9 The Services at each stage shall not be considered to have been complete unless the approval by the Client/ Project Manager of its acceptance has been given.

3. INDEMNITIES

- 3.1 The Consultant undertakes to keep indemnified the Project Manager from any losses / court action(s) that the Project Manager might face from the Client, any third party or statutory body, on account of any act or omission of the Consultant or any member of the Consultant's Team. The Project Manager shall be entitled to deduct for any such loss from the amounts payable to the Consultant under this Contract and/ LOI, PO or SOW.

4. SPECIAL PAYMENT TERMS

- 4.1 Progressive payments may be made to the Consultant in any stages set out in **Error! Reference source not found.**
- 4.2 Deduction shall be made from the fee of the Consultant as retention, penalty, liquidated damages as per details provided in **Error! Reference source not found.**, applicable LOI, PO or SOW and/or if Project Manager is subject to levy of such retention, penalty

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or liquidated damages due to acts or omissions of the Consultant or due to defect in Services, then the same shall be passed on to the Consultant.

- 4.3 CBRE shall pay the Consultant only against the bills / invoices raised by the Consultant against the Services rendered and the payments shall be made only after receipt of finally "cleared and approved" invoice and supporting proofs of expenditure and on the condition that CBRE receives its payment against its invoice for that particular duration from the Client and in case CBRE does not receive its fees from the Client for the said period, CBRE shall not be under any obligation to pay compensation / service fees to the Consultant until its receipt from the relevant Client.

5. REPRESENTATIONS, WARRANTIES AND UNDERTAKINGS

5.1 The Consultant represents, warrants and undertakes that:

- (a) except as disclosed herein, the Consultant, including any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents is not a government official, including an employee, officer, or representative of any government or agency or instrumentality of any government, or of a political party, or a candidate for political office; and none of the Consultant's shareholders, affiliates, officers, directors, partners, employees or agents are a relative of such a government official;
- (b) the Consultant shall, and shall ensure that and any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents involved in providing Services under this Contract, comply with all applicable anti-corruption laws, including the U.S. Foreign Corrupt Practices Act, India's Prevention of Corruption Act 1988 and any other applicable jurisdiction;
- (c) in connection with the Services, neither the Consultant nor any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents has or will offer or give anything of value to a Government Official in order to influence official action or otherwise obtain an improper business advantage, or to any other person while knowing that all or any portion of the money or thing of value will be offered or given to a Government Official;
- (d) in any event, neither the Consultant nor any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents has or will offer or give anything of value except any gifts of nominal value, to any person employed by or acting on behalf of the Project Manager;
- (e) neither the Consultant nor any of its shareholders or affiliates is directly or indirectly owned or controlled, in whole or in part, by any government or


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 PARTNER

Government Official and no officer, director, employee, or shareholder anticipates becoming a Government Official;

- (f) the Consultant's representative has the authority to execute this Contract on behalf of the Consultant. There is no conflict with other agreements or commercial obligations of Consultant's representative; and
- (g) the Consultant agrees to inform the Project Manager promptly of any change in circumstances underlying the representations and warranties included in this clause 5 or of any circumstance that might bear on its ability to comply with its representations and warranties in this clause 5.

5.2 The Consultant shall not make any political contributions or charitable donations on behalf of the Project Manager.

5.3 The Consultant will keep and maintain accurate and reasonably detailed books and financial records in connection with the Services to be performed under this Contract during the term of this Contract and for eight (8) years thereafter. Upon request, the Project Manager shall have the right to audit and examine relevant books and financial records to test compliance with this Contract and the representations, warranties and undertakings herein. The inspection will be conducted at Consultant's location at normal working hours. Whenever possible, the Project Manager shall give the Consultant a 15 day prior notice before commencement of the audit. Project Manager or its designated representatives will have access to all books and records related to and in support of activities performed, fees earned and expenses incurred under this Contract. Unless the Consultant is proved to have breached the U.S. Foreign Corrupt Practices Act or applicable Indian laws, Project Manager will bear the costs for the inspection. If an audit discloses any overcharges, then, without limiting any other remedy the Project Manager may have, the amount overcharged must promptly be credited by the Consultant to the account of the Project Manager or paid to the Project Manager upon demand. To the extent the audit reveals a discrepancy in excess of five percent (5%), the Consultant must pay for the cost of the audit.

6. BREACHES AND REMEDY PROVISIONS

6.1 In the event that the Project Manager has reason to believe that a breach of any of the representations, warranties or undertakings in this Contract relating to compliance with anti-corruption laws has occurred or may occur, the Project Manager may amend this Contract and/or relevant LOI, PO or SOW as necessary to avoid a violation of law and may withhold further payments under this Contract and/or relevant LOI, PO or SOW until such time as it has received confirmation to its satisfaction that no breach has occurred or will occur.

6.2 During the term of this Contract and any LOI, PO or SOW, Project Manager has the right to terminate this Contract and/or relevant LOI, PO or SOW immediately without

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[Handwritten signature]
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compensation to the Consultant in the event that Project Manager concludes, in its sole opinion, that the Consultant has breached any representation, warranty or undertaking under this Contract relating to compliance with anti-corruption laws or that any such breach is likely to occur unless the Contract and/or the relevant LOI, PO or SOW is terminated.

- 6.3 In the event of a breach of any of the representations, warranties or undertakings in this Contract relating to compliance with anti-corruption laws, any claims by the Consultant for payment, including claims for services previously rendered, shall be void to the extent permitted by law. Further, the Consultant shall full indemnify, defend and hold harmless Project Manager and its shareholders, affiliates, officers, directors, partners, employees, agents, advisors or other representatives or affiliates thereof from any and all demands, claims, actions, suits and proceedings made or instituted against Project Manager, directly or indirectly, by any person whatsoever, and from and against any loss, damage, damages, costs, charges and expenses, which may be paid, incurred or suffered by Project Manager as a result of or arising out of the foregoing and/or any breach by the Consultant of its representations, warranties and undertakings under this Contract.
- 6.4 By signing this Contract, the Consultant acknowledges that it has received a copy of the Project Manager's anti-corruption policy and procedures and undertakes to comply with the same as well as complying with the representations, warranties and undertakings under this Contract.

7. **LIABILITY**

- 7.1 Nothing in the Contract limits or excludes the Project Manager's liability which cannot be limited or excluded by applicable law.
- 7.2 Subject to clause 7.1, the Project Manager shall not be liable to the Consultant, whether in contract, tort (including negligence), for breach of statutory duty, or otherwise, arising under or in connection with the Contract for loss of profits, sales, business, agreements, contracts, anticipated savings, goodwill, use or corruption of software, data or information, or any incidental, punitive, indirect or consequential loss.
- 7.3 Subject to clause clause **Error! Reference source not found.** and clause **Error! Reference source not found.** the Project Manager's total liability to the Consultant, whether in contract, tort (including negligence), for breach of statutory duty, or otherwise, arising under or in connection with the Contract and/or relevant LOI, PO or SOW shall be limited to fees paid by the Project Manager as at the date of the claim under this Contract or the relevant LOI, PO or SOW, as the case may be.

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For ASIA REGENERATORS

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PARTNER

Schedule 2 Services

1. **CLIENT**
2. M/s. DLF Info Park Developers Limited, Jawaharlal Nehru Road (100 Feet Road), next to the American International School, Tharamani, Chennai, Tamil Nadu 600113
3. **Project**
- 3.1 DLF Downtown , Tharamani, Chennai - 600113
4. **SITE**
5. M/s. CBRE SOUTH ASIA PVT LTD on A/c M/s. DLF Info Park Developers Limited, Jawaharlal Nehru Road (100 Feet Road), next to the American International School, Tharamani, Chennai, Tamil Nadu 600113 Scope of services
6. This agreement shall be affective for a period of One Year and commenced from 01-04-2026 to 31-03-2027
7. **SCOPE OF SERVICES**

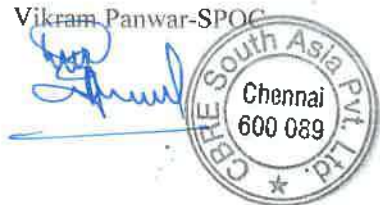
Sl. No	Type of Wastes	Schedule Name	Management Charges * (Rs. per MT)
1	Disposal of Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications 5.1-Used or spent oil	5.1	As per the Market Rate (Inclusive of taxes)

Transportation Charges

Sl. No.	Description	Payload	Rate *	Remarks
1	Transportation Charges	Included	Included	Included in the unit rate

* Inclusive of Taxes

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For ASIA REGENERATORS
[Signature]
PARTNER

Schedule 3 Pricing

Part 1. Price

Sl. No	Type of Wastes	Schedule Name	Management Charges * (Rs. per MT)
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications 5.1-Used or spent oil	5.1	As per the Market Rate

Part 2. Payment

100% Advance should be paid including taxes based on actual quantity

Signed by
for and on behalf of CBRE South Asia Private Limited



Signed by
for and on behalf of ASIA REGENERATORS

For ASIA REGENERATORS
[Signature]
PARTNER

[Signature]
Vikram Panwar-SPoC

For ASIA REGENERATORS
[Signature]
PARTNER

DT- 5.2 Agreement

DATED

01/04/2026

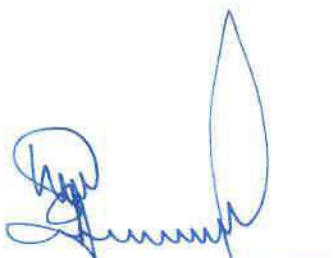

**CONSULTANT
SERVICES AGREEMENT**

between

CBRE SOUTH ASIA PRIVATE LIMITED

and

SAI RAM INDUSTRIES


Vikram Panwar-SPOC
21/5/26


1

For SAI RAM INDUSTRIES

R. Narayana
Authorised Signatory

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THIS AGREEMENT is dated 01/04/2026

Vikram Panwar-SPOC



For SAI RAM INDUSTRIES

R. Narayana
Authorised Signatory

PARTIES

- (1) **CBRE SOUTH ASIA PRIVATE LIMITED**, a company incorporated under the Companies Act, 1956 and having its registered office at PTI Building, Ground Floor, 4 Sansad Marg, New Delhi – 110 001 (**Project Manager**).
- (2) **SAI RAM INDUSTRIES** a company incorporated under the Companies Act, 1956 and having its registered office at Registered office 35/10, F4, First Floor, Vijayplaza, Kamaraj Nagar, M.G.Road, Avarampalayam, Coimbatore-641006, processing Factory Location at F-10, SIPCOT Industries Growth Centre, Perundurai, Erode-638052.(**Consultant**).

BACKGROUND

- A. Project Manager is engaged by its Client(s) for providing various project management services for the Project(s).
- B. Project Manager seeks to engage the Consultant to services deemed necessary for the Project(s).
- C. Consultant possesses the requisite skills, training, expertise and experience to perform the services called for under the Contract and/or in any individual LOI, PO or SOW and wishes to perform such services based on the terms and conditions herein.

AGREED TERMS AND CONDITIONS

1. INTERPRETATION

The following definitions and rules of interpretation apply in this Contract.

1.1 Definitions

Applicable Laws: all applicable regional, country, and local statutes, laws (including the common law), ordinances, rules, codes, and regulations governing the Consultant, the Services and the Site, including those of applicable regulatory bodies, governmental agencies, tribunals, instrumentalities, or any subdivisions thereof or other applicable entities exercising executive, legislative, judicial, taxing, regulatory or administrative powers of or pertaining to government including, without limitation, applicable import and export control laws, anti-corruption laws prohibiting the payment of commercial or private bribes, and any other applicable anti-corruption laws.

Contract: defined in clause 2.1.

Client Data: all data and information, in any form, provided or made available to the Consultant by or on behalf of Client or its affiliates or otherwise obtained or created by the Consultant for or on behalf of Client or its affiliates, including (i) all data and information obtained, developed or produced by the Consultant specifically for the benefit of Client in connection with this Contract, (ii) all Client data and information to which the Consultant has access in connection with this Contract, (iii) all reports provided to CBRE or Client by the Consultant pursuant to this Contract, and (iv) all


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data and information derived from Client data and information provided or made available to the Consultant by or on behalf of Client or its affiliates.

Client Policies: each of the policies, procedures and guidelines of the Client applicable to the Site, including but not limited to, policies set out in 0 as such policies may be amended, substituted or replaced from time to time by notice from the Client to the Project Manager and communicated to Consultant by Project Manager or Client.

Consultant's Equipment: any equipment, including tools, systems, cabling or facilities, required directly or indirectly for the supply of the Services.

Consultant's Manager: the Consultant's manager for the Services, appointed in accordance with clause 4.3.

Consultant's Team: the Consultant's Manager and all employees, sub-consultants, agents and subcontractors which it engages in relation to the Services.

Contractors: any or all of the consultants and/or contractors (other than the PMC and the Consultant) appointed by the Client to undertake construction and other functions in connection with the Project.

Data Protection Legislation: any Applicable Law in force from time to time relating to privacy legislation and guidance issued by data protection regulators in the relevant jurisdiction.

Deliverables: all Documents, products and materials developed by the Consultant or its agents, subcontractors, consultants and employees in relation to the Services in any form, including, data, reports and specifications (including drafts).

Document: includes, in addition to any document in writing, any drawing, map, plan, diagram, design, picture or other image, tape, disk or other device or record embodying information in any form.

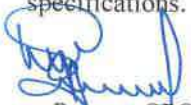
Personal Data: any Personal Data (as defined in Applicable Laws) in respect of which CBRE (or any member of its group), or any Client or its officers, directors, shareholders, employees, agents, representatives, subsidiaries, affiliates, successors, and assigns, is a Data Controller (as defined in Clause 10), and which is Processed by the Consultant under or in connection with this Contract from time to time.

Process: "Process" has the meaning given to it under the Data Protection Legislation but, for the purposes of this Contract, it shall include both manual and automatic processing.

Project Manager's Manager: the Project Manager's manager for the Services appointed under clause 5.1(a).

Government Official: any person employed by or acting on behalf of a government, government-controlled entity, public international organization, political party or candidate for political office.

In-put Material: all Documents, information and materials provided by the Client(s) and/or Project Manager relating to the Services, including data, reports and specifications.


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Intellectual Property Rights: patents, rights to inventions, copyright and related rights, trade marks, business names and domain names, rights in get-up, goodwill and the right to sue for passing off, rights in designs, database rights, rights to use, and protect the confidentiality of, confidential information (including know-how), and all other intellectual property rights, in each case whether registered or unregistered and including all applications and rights to apply for and be granted, renewals or extensions of, and rights to claim priority from, such rights and all similar or equivalent rights or forms of protection which subsist or will subsist now or in the future in any part of the world.

LOI: an individual letter of intent as may be issued by the Project Manager to the Consultant from time-to-time in respect of the provision of Services for a particular Project or Projects, which shall be subject to the terms of the Contract.

PO: an individual purchase order as may be issued by the Project Manager to the Consultant from time-to-time in respect of the provision of Services for a particular Project or Projects, which shall be subject to the terms of the Contract.

Pre-existing Materials: all Documents and information and provided by the Project Manager and/or the relevant Client relating to the Services which existed prior to the commencement of the Contract, including data, reports and specifications.

Project: the project, more fully described in **Error! Reference source not found.** and/or in any individual LOI, PO or SOW, with which the Client is proceeding and for which the services of the Consultant have been engaged.

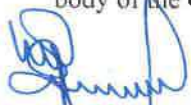
Services: the services to be provided by the Consultant under the Contract set out in **Error! Reference source not found.** and/or in individual LOI, PO or SOW together with any other services which the Consultant provides or agrees to provide to the Project Manager.

Site: the Project site identified in Schedule 2 and/or in the relevant LOI, PO or SOW for which Services are required.

Special Conditions: the special conditions set out in 0 (Special Conditions).

Statement of Work or SOW: an individual statement of work as may be issued by the Project Manager to the Consultant from time-to-time in respect of the provision of Services for a particular Project or Projects, which shall be subject to the terms of the Contract.

- 1.2 Clause, Schedule and paragraph headings shall not affect the interpretation of the Contract.
- 1.3 A **person** includes a natural person, corporate or unincorporated body (whether or not having separate legal personality) and that person's personal representatives, successors and permitted assigns.
- 1.4 The Schedules form part of the Contract and shall have effect as if set out in full in the body of the Contract. Any reference to the Contract includes the Schedules.


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For SAI RAM INDUSTRIES

Authorised Signatory

Privileged and Confidential

- 1.5 Unless the context otherwise requires, words in the singular shall include the plural and in the plural shall include the singular.
- 1.6 Unless the context otherwise requires, a reference to one gender shall include a reference to the other genders.
- 1.7 A reference to any party shall include that party's personal representatives, successors and permitted assigns.
- 1.8 A reference to a statute or statutory provision is a reference to it as amended, extended or re-enacted from time to time.
- 1.9 A reference to a statute or statutory provision shall include all subordinate legislation made from time to time under that statute or statutory provision.
- 1.10 Any obligation on a party not to do something includes an obligation not to allow that thing to be done.
- 1.11 References to clauses and Schedules are to the clauses and Schedules of the Contract and references to paragraphs are to paragraphs of the relevant Schedule.
- 1.12 Any words following the terms **including, include, in particular, for example** or any similar expression shall be construed as illustrative and shall not limit the sense of the words, description, definition, phrase or term preceding those terms.

2. EVIDENCE OF CONTRACT AND PRECEDENCE OF DOCUMENTS

- 2.1 The **Contract** consists of the following documents:
- (a) 0 (Special Conditions);
 - (b) these Terms and Conditions.
 - (c) **Error! Reference source not found.** (Services);
 - (d) **Error! Reference source not found.** (Prices);
 - (e) 0 (Client Policies); and
 - (f) and other Schedules.
- 2.2 If there is any conflict or inconsistency between the documents constituting the Contract, unless otherwise provided, the documents will rank in order of precedence in accordance with the order in which they are listed in clause 2.1.
- 2.3 If there is any conflict or inconsistency between a LOI, PO or SOW and the Contract, the Contract will prevail to the extent of that conflict or inconsistency.



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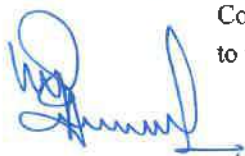
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3. COMMENCEMENT AND DURATION

- 3.1 The Consultant shall provide the Services on the terms and conditions of the Contract and any applicable LOI, PO or SOW.
- 3.2 The Consultant shall provide the Services from the date as set out in Schedule 2 and/or the relevant LOI, PO or SOW.
- 3.3 The Contract shall be effective as of the 01/04/2025 shall remain in full force and effect until the 31/03/2027 unless the Contract is terminated in accordance with the terms of the Contract.

4. CONSULTANT'S OBLIGATIONS

- 4.1 The Consultant shall provide the Services, and deliver the Deliverables, in accordance with the specifications set out in **Error! Reference source not found.** and/or the relevant LOI, PO or SOW and shall allocate sufficient resources to the Services to enable it to comply with this obligation.
- 4.2 The Consultant shall meet, and time is of the essence as to, any performance dates specified in **Error! Reference source not found.** and/or relevant LOI, PO or SOW. If the Consultant fails to do so, the Project Manager may (without prejudice to any other rights it may have):
- (a) terminate the relevant LOI, PO or SOW and/or this Contract and in whole or in part without liability to the Consultant.
 - (b) refuse to accept any subsequent performance of the Services which the Consultant attempts to make.
 - (c) purchase substitute services from elsewhere.
 - (d) hold the Consultant accountable for any loss and additional costs incurred; and
 - (e) have all sums previously paid by the Project Manager to the Consultant under this Contract and/or the relevant LOI, PO or SOW refunded by the Consultant.
- 4.3 The Consultant shall:
- (a) co-operate with the Project Manager, the Client and the Contractors in all matters relating to the Services;
 - (b) subject to the prior written approval of the Project Manger, appoint or, at the request of the Project Manager, replace without delay:
 - (i) the Consultant's Manager, who shall have authority under this Contract contractually to bind the Consultant on all matters relating to the Services; and



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- (ii) any member of the Consultant's Team, who shall be suitably skilled, experienced and qualified to carry out the Services.
- (c) subject to clause 4.3(b), ensure that the same person acts as the Consultant's Manager throughout the term of this Contract;
- (d) procure the availability of the Consultant's Manager to provide the Services during the term of this Contract;
- (e) promptly inform the Project Manager of the absence (or anticipated absence) of the Consultant's Manager, or any member of the Consultant's Team;
- (f) not make any changes to the Consultant's Manager or the Consultant's Team without the prior written approval of the Project Manager; and
- (g) ensure that the Consultant's Team use reasonable skill and care in the performance of the Services.

4.4 The Consultant shall:

- (a) observe, and ensure that the Consultant's Team observe, all health and safety rules and regulations and any other security requirements that apply at the relevant Site;
- (b) comply, and ensure that the Consultant's Team comply, with the Client Policies;
- (c) notify the Project Manager as soon as it becomes aware of any health and safety hazards or issues which arise in relation to the Services.
- (d) unless otherwise provided in **Error! Reference source not found.**, supply all the Consultant's Equipment; and
- (e) before the date on which the Services are to start, obtain, and at all times maintain, all necessary licences and consents and comply with all relevant legislation in relation to:
 - (i) the Services;
 - (ii) the use of In-put Material; and
 - (iii) the use of all Documents, information and materials provided by the Consultant or its agents, subcontractors, consultants or employees relating to the Services which existed prior to the commencement of this Contract, including computer programs, data, reports and specifications.

4.5 The Consultant shall:

- (a) not use the name of the Project Manager (CBRE or the Client's name) in any manner either for credit arrangement or otherwise and it is agreed that the Project Manager shall not in any way be responsible for the debts, liabilities or obligations of the Consultant or the employees of the Consultant;



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- (b) not disclose to the Project Manager, bring onto the Site or induce the Project Manager to use any confidential or proprietary information that belongs to anyone other than the Project Manager or the Consultant; and
- (c) fulfil all statutory requirements related to applicable laws.

4.6 The Consultant acknowledges and agrees that:

- (a) if it considers that the Project Manager is not, or may not, be complying with any of the Project Manager's obligations, it shall only be entitled to rely on this as relieving the Consultant's performance under the relevant LOI, PO or SOW:
 - (i) to the extent that it restricts or precludes performance of the Services by the Consultant; and
 - (ii) if the Consultant, promptly after the actual or potential non-compliance has come to its attention, has notified details to the Project Manager in writing.

5. PROJECT MANAGER'S OBLIGATIONS

5.1 The Project Manager shall:

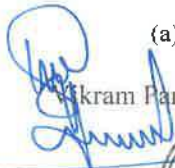

- (a) co-operate with the Consultant in all matters relating to the Services and appoint (and, as it thinks fit, replace) the Project Manager's Manager, who shall have the authority contractually to bind the Project Manager on matters relating to the Services;
- (b) make reasonable endeavours to provide such access to the Client's premises and data, and such office accommodation and other facilities as may reasonably be requested by the Consultant and agreed with the Project Manager in writing in advance, for the purposes of the Services;
- (c) provide the In-put Material as the Consultant may reasonably request and the Project Manager considers reasonably necessary, in order to carry out the Services, in a timely manner, and ensure that it is accurate in all material respects; and
- (d) inform the Consultant of all health and safety rules and regulations and any other reasonable security requirements that apply at the relevant Site.

6. CHANGE CONTROL

6.1 If either party wishes to change the scope or execution of the Services, it shall submit details of the requested change to the other in writing.

6.2 If either party requests a change to the scope or execution of the Services, the Consultant shall, within a reasonable time, provide a written estimate to the Project Manager of:

- (a) the likely time required to implement the change;


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- (b) any necessary variations to the Consultant's charges arising from the change;
 - (c) the likely effect of the change in timelines set out in **Error! Reference source not found.** and/or relevant LOI, PO or SOW; and
 - (d) any other impact of the change on the Contract.
- 6.3 Unless both parties consent to a proposed change, there shall be no change to this Contract and the relevant LOI, PO or SOW.
- 6.4 If both parties consent to a proposed change, the change shall be made, only after agreement of the necessary variations to the Consultant's charges, the Services, timelines set out in **Error! Reference source not found.** and/or relevant LOI, PO or SOW, and any other relevant terms of this Contract and/or relevant LOI, PO or SOW to take account of the change that has been reached and this Contract has been varied in accordance with clause **Error! Reference source not found.**

7. CHARGES AND PAYMENT

- 7.1 In consideration of the provision of the Services by the Consultant, the Project Manager shall pay to the Consultant the service fee as set out in **Error! Reference source not found.** and/or relevant LOI, PO or SOW.
- 7.2 The Project Manager's Manager shall hold the authority to advise on the deductions or increment in the service fees based on the documented evidence of quality and quantity of Services rendered for the relevant Project for the preceding month.
- 7.3 All the charges payable to the Consultant in respect of this Contract and/or relevant LOI, PO or SOW shall remain firm during the term of this Contract or relevant LOI, PO or SOW.

8. QUALITY OF SERVICES

- 8.1 The Consultant warrants to the Project Manager that:
- (a) the Consultant will perform the Services with reasonable care and skill and in accordance with generally recognised commercial practices and standards;
 - (b) the Services will conform with all descriptions and specifications provided to the Consultant by the Project Manager, including the specifications set out in **Error! Reference source not found.** and/or the relevant LOI, PO or SOW; and
 - (c) the Services and Deliverables will be provided in accordance with all applicable legislation from time to time in force, and the Consultant will inform the Project Manager as soon as it becomes aware of any changes in that legislation.



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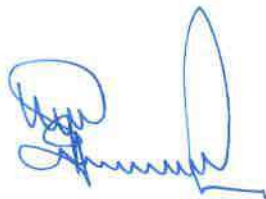
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- 8.2 The Consultant agrees that the Services shall be as per quality of standards as set out and expected by the Project Manager and that the Project Manager may make deductions from the payments if the Services are not as per the quality of standards set and expected by the Project Manager. The judgment of the Project Manager as to the quality of Services will be final and binding on the Consultant.
- 8.3 The Project Manager's rights under this Contract are in addition to the statutory terms implied in favour of the Project Manager by any and all applicable statutes.
- 8.4 The provisions of this clause 8 shall survive any performance, acceptance or payment pursuant to this Contract and shall extend to any substituted or remedial services provided by the Consultant.
- 8.5 In case of any claims with respect to any defect or deficiency in Services on the part of the Consultant, such claims are to be met by the Consultant. The Consultant shall at all times indemnify, defend and hold the Project Manager harmless against all such costs, damages, losses, claims etc. which the Project Manager may have to suffer, undergo or pay to any person on account of any deficiency of Services.

9. INTELLECTUAL PROPERTY RIGHTS

- 9.1 The Consultant assigns to the Project Manager, with full title guarantee and free from all third-party rights, the Intellectual Property Rights and all other rights in the products of the Services (including the Deliverables).
- 9.2 The Consultant shall, promptly at the Project Manager's request, do (or procure to be done) all such further acts and things and the execution of all such other documents as the Project Manager may from time to time require for the purpose of securing for the Project Manager the full benefit of this Contract, including all right, title and interest in and to the Intellectual Property Rights and all other rights assigned to the Project Manager in accordance with clause 9.1.
- 9.3 All Deliverables will be considered as "works made for hire" and the sole and exclusive property of the Project Manager. To the extent that any pre-existing materials are contained in the Deliverables, said pre-existing materials must be described as such by the Consultant and the Consultant hereby grants to the Project Manager and the Client an irrevocable, worldwide, non-exclusive, paid-up, royalty-free right and license to use, execute, reproduce, perform, display, distribute, and prepare derivative works of such pre-existing material and derivative works, and to make, have made, use, sell, offer for sale and import products and processes utilizing such pre-existing materials, as well as to authorize others to do any or all of the above, but in any case limited to the extent needed by Project Manager and/or the Client to use the Deliverables.



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10. CONFIDENTIALITY AND PROJECT MANAGER'S/CLIENT'S PROPERTY

- 10.1 The Consultant shall keep in strict confidence all In-put Material and all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the Consultant by the Project Manager or Client, their employees, agents, consultants or subcontractors, and any other confidential information concerning the Project Manger's or the Client's business or its products which the Consultant may obtain. The Consultant shall restrict disclosure of such confidential material to the Consultant's Team and to such of its other employees, agents, consultants or subcontractors as need to know it for the purpose of discharging the Consultant's obligations to the Project Manager and shall ensure that the Consultant's Team and all other employees, agents or subcontractors are subject to obligations of confidentiality corresponding to those which bind the Consultant.
- 10.2 All In-put Materials, and all other materials, equipment and tools, drawings, specifications and data supplied by the Project Manager or Client to the Consultant shall, at all times, be and remain the exclusive property of the Project Manager or Client, as the case may be, but shall be held by the Consultant in safe custody at its own risk and maintained and kept in good condition by the Consultant until returned to the Project Manager. They shall not be disposed of or used other than in accordance with the Project Manger's written instructions or authorisation.
- 10.3 The Consultant warrants that it has or shall obtain non-disclosure, assignment of rights and other appropriate agreements with the Consultant's Team sufficient to protect the confidential information of the Project Manager and the Client.
- 10.4 In this Clause 10, the terms "Data Controller" and "Data Subject" have the meanings set out in Applicable Laws.
- 10.5 The Consultant must at all times:
- (a) comply with all applicable Data Protection Legislation;
 - (b) Process Personal Data only on behalf of CBRE (or, if so directed by CBRE, Clients) only to the extent, and in such manner, as is necessary for the purpose of lawfully performing its obligations under this Contract, or as is required by Applicable Law and otherwise in accordance with instructions given by CBRE from time to time;
 - (c) save as set out in subsection (b), not modify, duplicate, replicate, amend or alter the contents of any Personal Data.
 - (d) preserve the security and confidentiality of Personal Data and protect it against unauthorised or unlawful Processing or access, accidental loss, destruction, damage, alteration or disclosure.
 - (e) ensure that the measures employed by or on behalf of the Consultant towards compliance with its obligations in this Clause 10 are appropriate to the harm which might result from any unauthorised or unlawful Processing or access,

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accidental loss, destruction, damage or disclosure of Personal Data that is Personal Data and having regard to the nature of the Personal Data concerned;

- (f) implement and comply with such other procedures and measures as CBRE may from time to time reasonably require in respect of Personal Data;
- (g) promptly provide to CBRE on request from time to time a written description of the technical and organisational measures employed for holding and Processing Personal Data and thereafter notify CBRE in writing of material changes to such measures from time to time;
- (h) notify CBRE immediately in writing (and by telephone and email if outside normal working hours) in the event of any breach by the Consultant or any sub-subcontractor of this Clause 10 or any loss of or unauthorised use or access to Personal Data (the foregoing each a "Security Incident") and thereafter promptly provide all cooperation, information and assistance and follow such instructions reasonably requested by CBRE with respect to the response to the Security Incident;
- (i) notify CBRE promptly in writing (and in any event within three (3) business days) of any data subject access request received by the Consultant (or any of its agents or subcontractors) in relation to Personal Data.
- (j) provide to CBRE copies of all Personal Data held by or on behalf of the Consultant and all other reasonable assistance in relation to a data subject who makes a subject access request satisfying the applicable legal requirements (or as otherwise directed by CBRE), whether the subject access request is given to the Consultant or any of its agents or to CBRE or a third party and CBRE gives to the Consultant details of the subject access request.
- (k) not cause or permit any subcontractor or any the Consultant's affiliate to hold or Process Personal Data without CBRE's prior written consent (to be given or withheld in CBRE's sole and absolute discretion);
- (l) ensure that any Consultant's Team, permitted sub-contractors and such sub-contractors' directors, officers, employees and agents act in accordance with this Clause 10 is bound by it as the Consultant is bound.
- (m) take all reasonable steps to ensure the reliability of any of the Consultant's Team members who have access to the Personal Data; and
- (n) ensure that only those of the Consultant's Team members who need to have access to the Personal Data are granted access to such data and only for the purposes of the performance of this Contract and all of the Consultant's Team required to access the Personal Data are informed of the confidential nature of the Personal Data and comply with the obligations set out in this Clause 10.

10.6 The Consultant shall on demand, at all times during and after the term of this Contract, indemnify CBRE (and Client) and keep CBRE (and Client) indemnified on demand and held harmless from and against all losses, damages, claims, costs, or expenses and


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other liabilities (including fines and legal fees) incurred by, awarded against or agreed to be paid by CBRE (or Client) arising out of or in connection with any breach of the Consultant's obligations under this Clause 10.

11. INDEMNIFICATION

11.1 The Consultant shall indemnify and hold the Project Manager and the Client harmless from all claims and all direct, indirect or consequential liabilities (including loss of profits, loss of business, depletion of goodwill and similar losses), costs, proceedings, damages and expenses (including legal and other professional fees and expenses) awarded against, or incurred or paid by, the Project Manager and/or the Client as a result of or in connection with:

- (a) any alleged or actual infringement, whether under Indian law, of any third party's Intellectual Property Rights or other rights arising out of the use or supply of the Services (including the Deliverables); or
- (b) any claim made against the Project Manager and/or the Client in respect of any liability, loss, damage, injury, cost or expense sustained by the Client and/or Project Manager's employees or agents or by any customer of the foregoing or third party to the extent that such liability, loss, damage, injury, cost or expense was caused by, relates to or arises from the provision of the Services or the Deliverables as a consequence of a breach or negligent performance or failure or delay in performance of this Contract by the Consultant.

11.2 During the term of this Contract, the Consultant shall maintain in force, with a reputable insurance company, professional indemnity insurance in an amount not less than INR _____ and shall, on the Project Manager's request, produce both the insurance certificate giving details of cover and the receipt for the current year's premium.

11.3 The provisions of this clause 11 shall survive termination of this Contract, however arising.

12. TERMINATION

12.1 The Project Manager will have the right to terminate this Contract or any part of it after giving 30 days' advance written notice without assigning any reason.

12.2 Without affecting any other right or remedy available to it, Project Manager may terminate the Contract, or the relevant LOI, PO or SOW, as the case may be, with immediate effect by giving written notice to the Consultant if:

- (a) the Consultant commits a breach of any term of the Contract and/or relevant LOI, PO or SOW which breach is irremediable or (if such breach is remediable) fails to remedy that breach within a period of 5 days after being notified in writing to do so.



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- (b) the Consultant suspends, or threatens to suspend, payment of its debts or is unable to pay its debts as they fall due or admits inability to pay its debts;
- (c) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Consultant (being a company);
- (d) an application is made to court, or an order is made, for the appointment of an administrator, or if a notice of intention to appoint an administrator is given or if an administrator is appointed, over the Consultant (being a company);
- (e) a person becomes entitled to appoint a receiver over the assets of the Consultant or a receiver is appointed over the assets of the Consultant; or
- (f) the Consultant suspends or ceases, or threatens to suspend or cease, carrying on all or a substantial part of its business.

12.3 Termination by the Project Manager under clause 12.2 of an individual LOI, PO or SOW shall not affect other LOI's, PO'S or SOW's issued pursuant to this Contract which are continuing as on the date of such termination and such other LOI's, PO's and SOW's shall continue with full force and effect.

13. REMEDIES

13.1 If any Services are not supplied in accordance with, or the Consultant fails to comply with, any terms of this Contract and/or relevant LOI, PO or SOW, the Project Manager shall be entitled (without prejudice to any other right or remedy) to exercise any one or more of the following rights or remedies:

- (a) to rescind this Contract in whole or in part; or
- (b) to refuse to accept the provision of any further Services by the Consultant and to require the immediate repayment by the Consultant of all sums previously paid by the Project Manager to the Consultant under this Contract and/or relevant LOI, PO or SOW; or
- (c) to require the Consultant, without charge to the Project Manager, to carry out such additional work as is necessary to correct the Consultant's failure; and
- (d) in any case, to claim such damages as it may have sustained in connection with the Consultant's breach (or breaches) of this Contract not otherwise covered by the provisions of this clause 13.

14. CONSEQUENCES OF TERMINATION

14.1 On termination of this Contract and/or relevant LOI, PO or SOW for any reason, the Consultant shall immediately deliver to the Project Manager:

- (a) all In-put Material and all copies of information and data provided by the Project Manager and/or Client to the Consultant for the purposes of this Contract and/or relevant LOI, PO or SOW. The Consultant shall certify to the Project Manager that it has not retained any copies of In-put Material or other information or data, except for one copy which the Consultant may use for

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audit purposes only and subject to the confidentiality obligations in clause 10;
and

- (b) all specifications, programs (including source codes) and other documentation comprised in the Deliverables and existing at the date of such termination, whether or not then complete. All Intellectual Property Rights in such materials shall automatically pass to the Project Manager (to the extent that they have not already done so by virtue of clause 9.1), who shall be entitled to enter the premises of the Consultant to take possession of them.

- 14.2 If the Consultant fails to fulfil its obligations under clause 14.1, then the Project Manager may enter the Consultant's premises and take possession of any items which should have been returned under it. Until they have been returned or repossessed, the Consultant shall be solely responsible for their safe keeping.
- 14.3 The Consultant undertakes, promises and agrees that it shall not enter into or become a direct service provider of the Client mentioned in this this Contract and/or relevant LOI, PO or SOW without obtaining a written approval from Project Manager, during the term of this Contract and until the expiry of 3 months from termination of this Contract.
- 14.4 Subject to Project Manager continuing to pay the Consultant the service fee for any Services delivered during such period, the Consultant shall (and shall ensure that the Consultant's Team shall) cooperate with the Project Manager for a period of at least six (6) months after expiry or termination, including partial termination, of all or part of this Agreement, to allow the Services to continue without interruption to the quality of the Services and to facilitate the orderly transition of the Services back to the Project Manager, the Client, or to an alternative supplier designated by the Project Manager.
- 14.5 Upon expiry or termination of all or part of this Contract, the Consultant shall, at Project Manager's option, either terminate or assign to Project Manager or its nominee any or all contracts with subcontractors engaged by the Consultant to deliver the Services then in effect.
- 14.6 On termination of this Contract (however arising) the accrued rights and liabilities of the parties as at termination, clause 9, 10, 11, 13 and **Error! Reference source not found.**, shall survive and continue in full force and effect.

15. FORCE MAJEURE

- 15.1 The Project Manager reserves the right to defer the date for performance of, or payment for, the Services, or to terminate this Contract and/or relevant LOI, PO or SOW, if it is prevented from, or delayed in, carrying on its business by acts, events, omissions or accidents beyond its reasonable control, including strikes, lockouts or other industrial disputes (whether involving the workforce of the Project Manager or any other party), failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or


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direction, accident, breakdown of plant or machinery, fire, flood, storm or default of Consultants or subcontractors.

16. VARIATION

Subject to clause **Error! Reference source not found.**, no variation of the Contract shall be effective unless it is in writing and signed by the parties (or their authorised representatives).

17. WAIVER

No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it prevent or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall prevent or restrict the further exercise of that or any other right or remedy.

18. RIGHTS AND REMEDIES

The rights and remedies provided under the Contract are in addition to, and not exclusive of, any rights or remedies provided by law.

19. SEVERANCE

19.1 If any provision or part-provision of the Contract is or becomes invalid, illegal or unenforceable, it shall be deemed modified to the minimum extent necessary to make it valid, legal and enforceable. If such modification is not possible, the relevant provision or part-provision shall be deemed deleted. Any modification to or deletion of a provision or part-provision under this clause shall not affect the validity and enforceability of the rest of the Contract.

19.2 If any provision or part-provision of the Contract is invalid, illegal or unenforceable, the parties shall negotiate in good faith to amend such provision so that, as amended, it is legal, valid and enforceable, and, to the greatest extent possible, achieves the intended commercial result of the original provision.

20. ENTIRE AGREEMENT

20.1 The Contract constitutes the entire agreement between the parties and supersedes and extinguishes all previous agreements, promises, assurances, warranties, representations and understandings between them, whether written or oral, relating to its subject matter.

21. ASSIGNMENT AND OTHER DEALINGS

21.1 The Consultant shall not, without the prior written consent of the Project Manager, assign, transfer, charge, mortgage, subcontract or deal in any other manner with all or any of its rights or obligations under this Contract.

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21.2 The Project Manager may at any time assign, transfer, mortgage, charge or deal in any other manner with any or all of its rights and obligations under the Contract.

22. NO PARTNERSHIP OR AGENCY

22.1 Nothing in the Contract is intended to, or shall be deemed to, establish any partnership or joint venture between any of the parties, constitute any party the agent of another party, or authorise any party to make or enter into any commitments for or on behalf of any other party.

23. THIRD PARTY RIGHTS

No one other than a party to the Contract, their successors and permitted assignees, shall have any right to enforce any of its terms.

24. NOTICES

24.1 A notice given to a party under or in connection with the Contract:

- (a) shall be in writing and in English;
- (b) shall be sent to the party for the attention of the contact and at the address, fax number or e-mail listed in clause **Error! Reference source not found.**;
- (c) is deemed received if prepared and sent in accordance with this clause.

24.2 The parties' addresses and contacts are as set out in this table:

Party	Contact	Address	Fax number	Email
SAI RAM INDUSTRIES	9042220044 8903617079	35/10, F4, First Floor, Vijayplaza, Kamaraj Nagar, M.G.Road, Avarampalayam, Coimbatore Factory at F-10, SIPCOT Industries Growth Centre, Perundurai, Erode-638052	-	sairamindustriess@gmail.com


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25. COUNTERPARTS

25.1 The Contract may be executed in any number of counterparts, each of which when executed shall constitute a duplicate original, but all the counterparts shall together constitute the one agreement.

26. DISPUTE RESOLUTION PROCEDURE

If a dispute arises out of or in connection with the Contract or the performance, validity or enforceability of it (**Dispute**) then, either party shall give to the other written notice of the Dispute, setting out its nature and full particulars (**Dispute Notice**), together with relevant supporting documents. On service of the Dispute Notice, the parties shall attempt in good faith to resolve the Dispute. If the parties are for any reason unable to resolve the Dispute within 30 days of service of the Dispute Notice, the Dispute shall be submitted to arbitration by a sole arbitrator, appointed by agreement between the parties, under the Arbitration And Conciliation Act, 1996. In the event the Parties are unable to agree on a sole arbitrator within 30 days of a notice of claim served on one party by the other, then each party shall appoint one arbitrator and the arbitrators so appointed shall appoint the third arbitrator. The place of arbitration shall be Delhi and the language of arbitration shall be in English.

27. GOVERNING LAW

The Contract and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the laws of India and the Parties submit to exclusive jurisdiction of Indian court

The Contract has been entered into on the date stated at the beginning of it.

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Special Conditions

1. PERSONNEL

- 1.1 The Consultant agrees and acknowledges that the Project Manager and/or the Client is not and will not become the employer of any of individual engaged or employed by the Consultant, its agents and subcontractors as a result of the performance of the Services and the Consultant shall ensure that all such individuals are paid any remuneration and provided with any right or entitlement due to them in connection with their employment or engagement by the Consultant, and the Consultant will indemnify the Project Manager and the Client against any liabilities, damages, expense, loss, cost, claim or proceedings in respect of such remuneration, right or entitlement.
- 1.2 The Consultant shall be solely responsible for payment for all fees, compensation, statutory dues and any other costs related to the Consultant's Team and that it must, if required by the Project Manager, provide the Project Manager with documents or independent audit reports adequately evidencing the same.
- 1.3 The Consultant shall ensure that any member of the Consultant's Team who has access to the Client's premises or systems execute and deliver to the Project Manager such documents relating to undertakings regarding the Client Policies, code of business conduct, Confidential Information, Intellectual Property Rights and privacy or data protection, and at Project Manager's discretion, any other document as notified to the Consultant by the Project Manager.

2. SERVICE SPECIFIC OBLIGATIONS

- 2.1 The Consultant shall prepare engineering drawings, outline specifications and estimates of cost by cubic measurements or on area basis on schedule of rates of the executing agency plus tender percentage and/ or on Bureau of Indian Standards specifications. In the absence of any rate in the aforesaid schedule of rates, the same shall be arrived at by actual analysis.
- 2.2 The Consultant will advise the Project Manager on the time and progress chart prepared by the Contractors for the completion of Project work, if required.
- 2.3 The Consultant may appoint sub-consultants in consultation with the Project Manager, if necessary after obtaining prior written consent of the Project Manager. The Consultant however shall be responsible for the direction and integration of the sub-consultants' work. The Consultant shall be solely responsible for the competency and supervision of the work entrusted to such sub-consultants.
- 2.4 The Consultant must have the consent of the Project Manager before initiating any stage of the Consultant's duties.


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- 2.5 The acknowledges and warrants that it has assumed full responsibility for items described in the scope of work set out in **Error! Reference source not found..** The Project Manager shall be allowed full access to the details of the calculations for the purpose of scrutiny for satisfying itself as to their correctness.
- 2.6 The Consultant shall advise the Project Manager regarding the work under execution during visits to the Site and submit periodic reports on Consultant's observations.
- 2.7 The Consultant shall not make any deviation, alteration or omission from the approved drawings, involving the financial implications without prior consent of the Project Manager.
- 2.8 The Consultant shall make necessary revisions as may be required by the Project Manager in the drawings and other documents submitted by the Consultant at the draft stage. Any subsequent revisions in the drawings and documents once approved required to be made by the Project Manager shall be compensated as additional services rendered by the Consultant.
- 2.9 The Services at each stage shall not be considered to have been complete unless the approval by the Client/ Project Manager of its acceptance has been given.

3. INDEMNITIES

- 3.1 The Consultant undertakes to keep indemnified the Project Manager from any losses / court action(s) that the Project Manager might face from the Client, any third party or statutory body, on account of any act or omission of the Consultant or any member of the Consultant's Team. The Project Manager shall be entitled to deduct for any such loss from the amounts payable to the Consultant under this Contract and/ LOI, PO or SOW.

4. SPECIAL PAYMENT TERMS

- 4.1 Progressive payments may be made to the Consultant in any stages set out in **Error! Reference source not found..**
- 4.2 Deduction shall be made from the fee of the Consultant as retention, penalty, liquidated damages as per details provided in **Error! Reference source not found./** applicable LOI, PO or SOW and/or if Project Manager is subject to levy of such retention, penalty or liquidated damages due to acts or omissions of the Consultant or due to defect in Services, then the same shall be passed on to the Consultant.
- 4.3 CBRE shall pay the Consultant only against the bills / invoices raised by the Consultant against the Services rendered and the payments shall be made only after receipt of finally "cleared and approved" invoice and supporting proofs of expenditure and on the condition that CBRE receives its payment against its invoice for that particular duration from the Client and in case CBRE does not receive its fees from the Client for the said

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period, CBRE shall not be under any obligation to pay compensation / service fees to the Consultant until its receipt from the relevant Client.

5. REPRESENTATIONS, WARRANTIES AND UNDERTAKINGS

5.1 The Consultant represents, warrants and undertakes that:

- (a) except as disclosed herein, the Consultant, including any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents is not a government official, including an employee, officer, or representative of any government or agency or instrumentality of any government, or of a political party, or a candidate for political office; and none of the Consultant's shareholders, affiliates, officers, directors, partners, employees or agents are a relative of such a government official;
- (b) the Consultant shall, and shall ensure that and any of its shareholders, affiliates, officers, directors, partners, employees contractors, subcontractors, consultants or agents involved in providing Services under this Contract, comply with all applicable anti-corruption laws, including the U.S. Foreign Corrupt Practices Act, India's Prevention of Corruption Act 1988 and any other applicable jurisdiction;
- (c) in connection with the Services, neither the Consultant nor any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents has or will offer or give anything of value to a Government Official in order to influence official action or otherwise obtain an improper business advantage, or to any other person while knowing that all or any portion of the money or thing of value will be offered or given to a Government Official;
- (d) in any event, neither the Consultant nor any of its shareholders, affiliates, officers, directors, partners, employees, contractors, subcontractors, consultants or agents has or will offer or give anything of value except any gifts of nominal value, to any person employed by or acting on behalf of the Project Manager;
- (e) neither the Consultant nor any of its shareholders or affiliates is directly or indirectly owned or controlled, in whole or in part, by any government or Government Official and no officer, director, employee, or shareholder anticipates becoming a Government Official;
- (f) the Consultant's representative has the authority to execute this Contract on behalf of the Consultant. There is no conflict with other agreements or commercial obligations of Consultant's representative; and
- (g) the Consultant agrees to inform the Project Manager promptly of any change in circumstances underlying the representations and warranties included in this clause 5 or of any circumstance that might bear on its ability to comply with its representations and warranties in this clause 5.


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- 5.2 The Consultant shall not make any political contributions or charitable donations on behalf of the Project Manager.
- 5.3 The Consultant will keep and maintain accurate and reasonably detailed books and financial records in connection with the Services to be performed under this Contract during the term of this Contract and for eight (8) years thereafter. Upon request, the Project Manager shall have the right to audit and examine relevant books and financial records to test compliance with this Contract and the representations, warranties and undertakings herein.. The inspection will be conducted at Consultant's location at normal working hours. Whenever possible, the Project Manager shall give the Consultant a 15 day prior notice before commencement of the audit. Project Manager or its designated representatives will have access to all books and records related to and in support of activities performed, fees earned and expenses incurred under this Contract. Unless the Consultant is proved to have breached the U.S. Foreign Corrupt Practices Act or applicable Indian laws, Project Manager will bear the costs for the inspection. If an audit discloses any overcharges, then, without limiting any other remedy the Project Manager may have, the amount overcharged must promptly be credited by the Consultant to the account of the Project Manager or paid to the Project Manager upon demand. To the extent the audit reveals a discrepancy in excess of five percent (5%), the Consultant must pay for the cost of the audit.

6. BREACHES AND REMEDY PROVISIONS

- 6.1 In the event that the Project Manager has reason to believe that a breach of any of the representations, warranties or undertakings in this Contract relating to compliance with anti-corruption laws has occurred or may occur, the Project Manager may amend this Contract and/or relevant LOI, PO or SOW as necessary to avoid a violation of law and may withhold further payments under this Contract and/or relevant LOI, PO or SOW until such time as it has received confirmation to its satisfaction that no breach has occurred or will occur.
- 6.2 During the term of this Contract and any LOI, PO or SOW, Project Manager has the right to terminate this Contract and/or relevant LOI, PO or SOW immediately without compensation to the Consultant in the event that Project Manager concludes, in its sole opinion, that the Consultant has breached any representation, warranty or undertaking under this Contract relating to compliance with anti-corruption laws or that any such breach is likely to occur unless the Contract and/or the relevant LOI, PO or SOW is terminated.
- 6.3 In the event of a breach of any of the representations, warranties or undertakings in this Contract relating to compliance with anti-corruption laws, any claims by the Consultant for payment, including claims for services previously rendered, shall be void to the extent permitted by law. Further, the Consultant shall full indemnify, defend and hold harmless Project Manager and its shareholders, affiliates, officers, directors, partners, employees, agents, advisors or other representatives or affiliates thereof from any and all demands, claims, actions, suits and proceedings made or instituted against Project


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For SAI RAM INDUSTRIES

R. Natarajan
Authorised Signatory



Manager, directly or indirectly, by any person whatsoever, and from and against any loss, damage, damages, costs, charges and expenses, which may be paid, incurred or suffered by Project Manager as a result of or arising out of the foregoing and/or any breach by the Consultant of its representations, warranties and undertakings under this Contract.

- 6.4 By signing this Contract, the Consultant acknowledges that it has received a copy of the Project Manager's anti-corruption policy and procedures and undertakes to comply with the same as well as complying with the representations, warranties and undertakings under this Contract.

7. LIABILITY

- 7.1 Nothing in the Contract limits or excludes the Project Manager's liability which cannot be limited or excluded by applicable law.

- 7.2 Subject to clause 7.1, the Project Manager shall not be liable to the Consultant, whether in contract, tort (including negligence), for breach of statutory duty, or otherwise, arising under or in connection with the Contract for loss of profits, sales, business, agreements, contracts, anticipated savings, goodwill, use or corruption of software, data or information, or any incidental, punitive, indirect or consequential loss.

- 7.3 Subject to clause **Error! Reference source not found.** and clause **Error! Reference source not found.**, the Project Manager's total liability to the Consultant, whether in contract, tort (including negligence), for breach of statutory duty, or otherwise, arising under or in connection with the Contract and/or relevant LOI, PO or SOW shall be limited to fees paid by the Project Manager as at the date of the claim under this Contract or the relevant LOI, PO or SOW, as the case may be.



Vikram Panwar



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Schedule 1 Services

1. **CLIENT**
2. M/s. DLF Info Park Developers Limited, Jawaharlal Nehru Road (100 Feet Road), next to the American International School, Tharamani, Chennai, Tamil Nadu 600113
3. **Project**
- 3.1 DLF Downtown , Tharamani, Chennai - 600113
4. **SITE**
5. M/s. CBRE SOUTH ASIA PVT LTD on A/c M/s. DLF Info Park Developers Limited, Jawaharlal Nehru Road (100 Feet Road), next to the American International School, Tharamani, Chennai, Tamil Nadu 600113 Scope of services
6. This agreement shall be effective for a period of One Year and commenced from 01-04-2026 to 31-03-2027

Sl. No	Type of Wastes	Schedule Name	Management Charges * (Rs. per Kg)
1	Disposal of Waste DG Filter & oil-soaked Cotton waste	5.2 ✓	Rs.17/-Per Kg + GST 18% Tax

Transportation Charges

Sl. No.	Description	Payload	Rate *	Remarks
1	Transportation Charges	Below 1 MT	Rs.15000/-	Taxes 18% extra
2	Transportation Charges	Above 1 MT	Rs.25000/-	Taxes 18% extra

Vikram Panwar SPO



For SAI RAM INDUSTRIES
R. Nalagan
Authorised Signatry

Pricing

Part 1. Price

7. SCOPE OF SERVICES

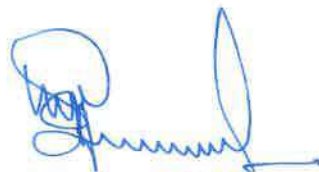
Sl. No	Type of Wastes	Schedule Name	Management Charges * (Rs. per Kg)
1	Disposal of Waste DG Filter & oil-soaked Cotton waste	5.2	Rs.17/-Per Kg + GST 18% Tax

Transportation Charges

Sl. No.	Description	Payload	Rate *	Remarks
1	Transportation Charges	Below 1 MT	Rs.15000/-	Taxes 18% extra
2	Transportation Charges	Above 1 MT	Rs.25000/-	Taxes 18% extra

Part 2. Payment

100% Advance Excluding Taxes



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For SAI RAM INDUSTRIES

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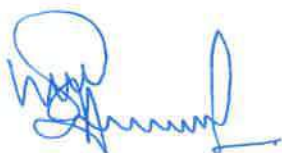
Privileged and Confidential

Client Policies

[Client's policies applicable at the Site, including HSE, physical and information security etc.,]



Sive .



Vikram Panwar-SPOC



For SAI RAM INDUSTRIES



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Privileged and Confidential

Signed by
for and on behalf of CBRE South Asia
Private Limited



Signed by
for and on behalf of Sai Ram
Industries

For SAI RAM INDUSTRIES
R. Narayana
Authorised Signatory

Client Policies

[Client's policies applicable at the Site, including HSE, physical and information security etc.,]

A handwritten signature in blue ink, consisting of a large initial 'V' and a long horizontal stroke.

Vikram Panwar-SPOC



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For SAI RAM INDUSTRIES
R. Narayana
Authorised Signatory

Annexure-XXIII

Photo of thermal insulation materials









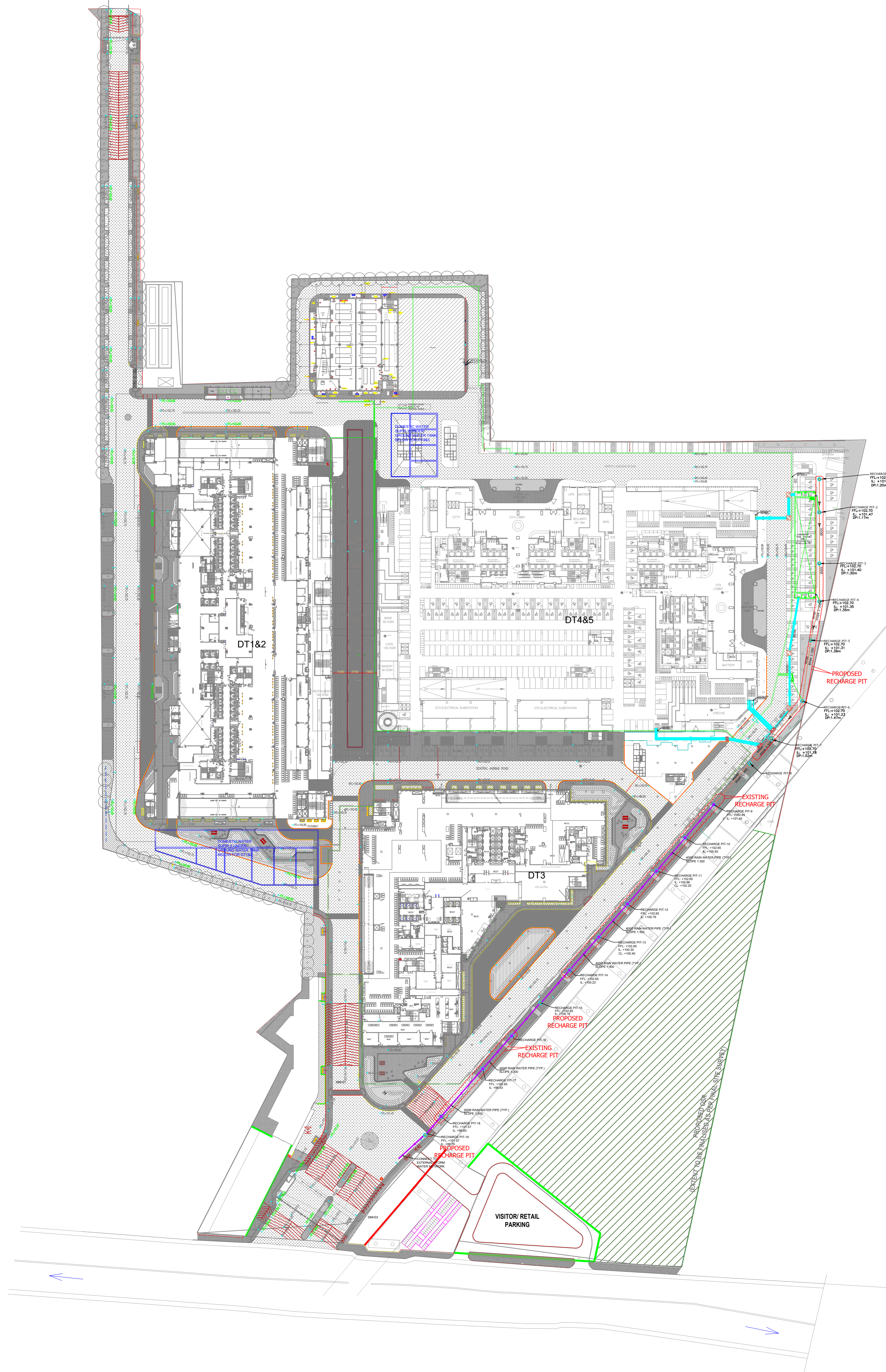




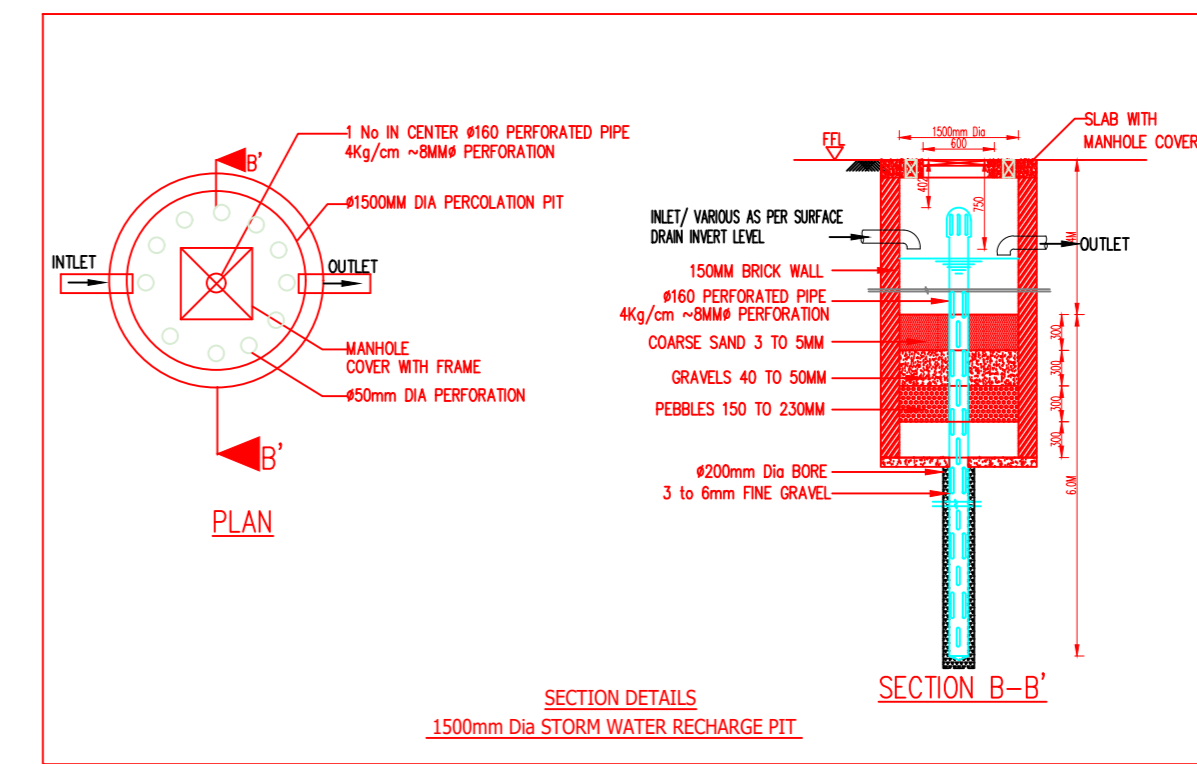


Annexure-XXVI

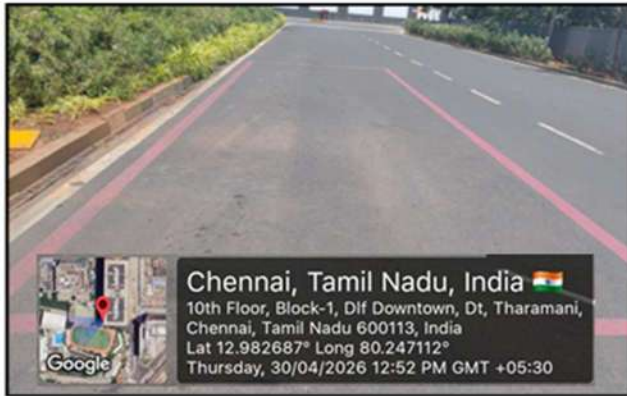
RWH Photos



SYMBOL	DESCRIPTION
(Red line)	EXTERNAL PROPOSED STORM WATER DRAINAGE PIPE
(Blue line)	INTERNAL EXISTING STORM WATER DRAINAGE PIPE
(Green line)	ROOF RAIN WATER PIPE
(Yellow circle)	RECHARGE PIT (PROPOSED)
(Purple circle)	RECHARGE PIT (EXISTING)
(Red square)	STORM WATER MANHOLE



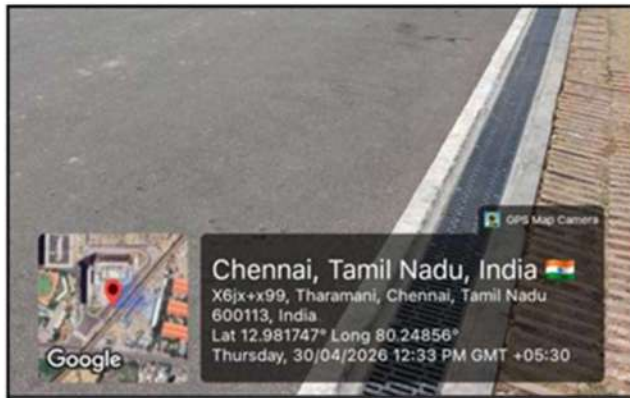
Photographs of RWH System & Storm Water Drains



Underground RWH Sump



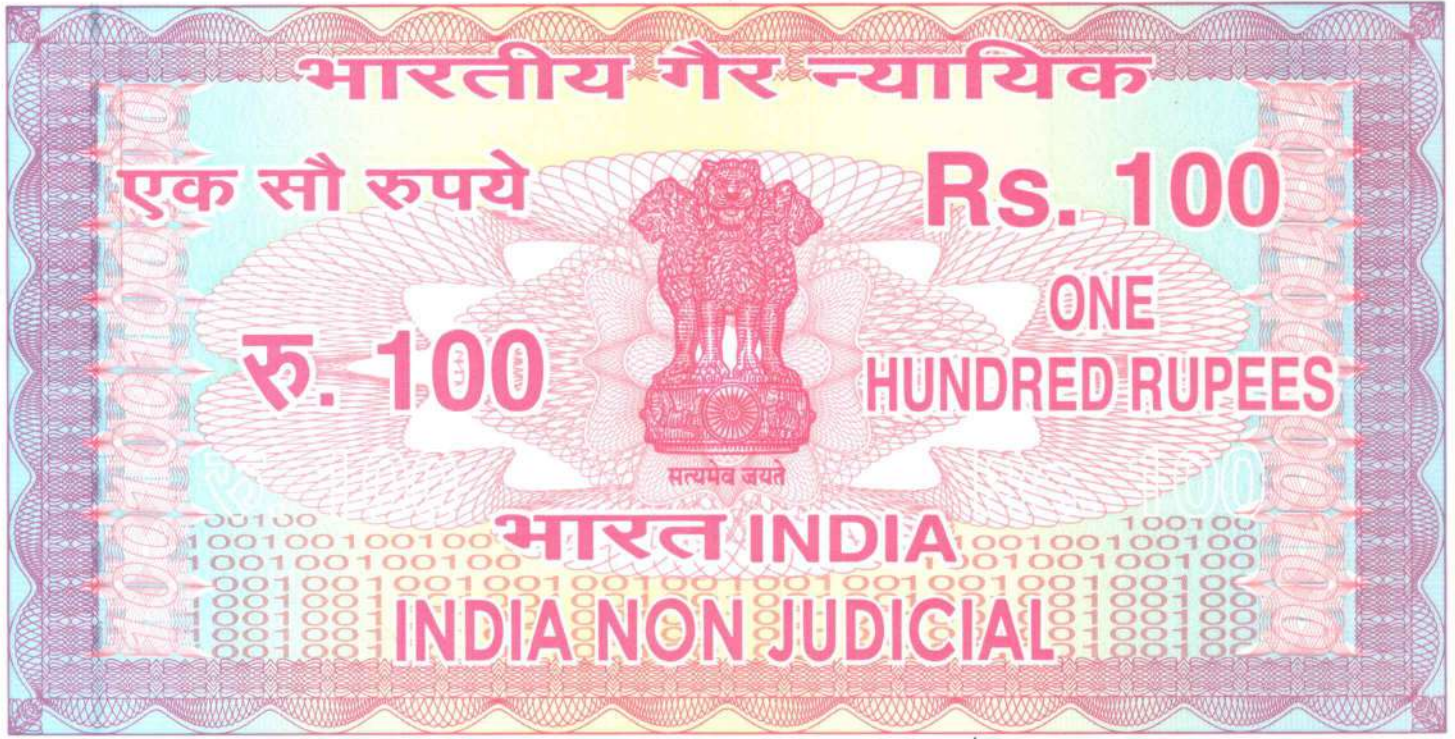
RWH Pit



Storm Water Drains

Annexure-XXVII

Copy of agreement for Hazardous Waste disposal



தமிழ்நாடு தமில்நாடு TAMILNADU RS.100 - 21.02.2025 EL 452475

ATLAS CORPORATION,
KARUR.

M.K.ASHOKKUMAR
STAMP VENDOR

L. No: 04/KRR/2015
MINNAMPALLI-Po., KARUR-DI

**AGREEMENT FOR SAFELY DISPOSAL OF HAZARDOUS
WASTE (Wastes or residues containing oil)**

This agreement hereinafter referred to as ("Agreement") is made and executed at Gurgaon on **25th January 2025**.

By and Between:

DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-I), a company incorporated under the Companies Act, 1956, bearing PAN AACCD8607M having its registered office at S.F.NO. T.S.NO.300/2B,300/2C,301/3,KOTTIVAKKAM VILLAGE,SOLINGANALLUR TALUK AND T.S.NO.1/5,1/9,THIRUVANMIYUR VILLAGE VELACHERI TALUK AND CHENNAI DISTRICT ("First Party") and shall include its successors and permitted assigns, of the First Part

And

ATLAS CORPORATION, A Proprietorship, bearing PAN AQKPA4113G HAVING ITS OFFICE AT at2, M.G.R. NAGAR, C.A.K ROAD, KARUR Tamil Nadu. 639001. ("Second Party") and shall include its successors and permitted assigns, of the Second Part

For Atlas Corporation

Authorized signatory



தமிழ்நாடு தமில்நாடு TAMILNADU

7-2-25
(251001)

Atlas Corporation
Karr

EL 488439

V. S. Subramanian
V. M. SUBRAMANIAN
STAMP VENDOR.
L. NO. 44/97
KARUR.

(The above-mentioned Parties to this Agreement shall also be collectively referred to as "**Parties**" and individually as "**Party**").

AND WHEREAS pursuant to Operation and Management Agreement between the First Party and Clients (herein, above mentioned parties being collectively referred to as the "**Client**" and the service agreements being collectively referred to as the "**Service Agreement**"), the First Party has agreed to provide certain services to the Client at the Property (defined as per Annexure A) owned and/ or occupied by the Client.

AND WHEREAS First Party is permitted under the Service Agreement to subcontract certain of the services as stated in the Service Agreement, which are set out in detail here.

AND WHEREAS the Second Party has represented that they are the authorized, registered and licensed under Central Pollution Control Board and respective State Pollution Control Board and have a cost-effective organization of Hazardous Waste to safely dispose generated Wastes or residues containing oil., (under 5.2) and has requested.

to dispose the Hazardous waste from the First Party and First Party has accepted the request of Second Party on the terms and conditions set forth in this Agreement.

AND WHEREAS it is deemed expedient to record the terms and conditions between the Parties in this Agreement.

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED, DECLARED COVENANTED AND RECORDED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS.

1. That the First Party has agreed to engage Second Party, on terms and conditions contained hereinafter for disposing Wastes or residues containing oil from First Party.
2. That Second Party will disposing Wastes or residues containing oil as mentioned under **Annexure A** under this Agreement.
3. That Second Party shall use its best skills and judgments and shall perform all services timely, diligently and to the satisfaction of the First Party in a whole.
4. That the Second Party shall provide the service diligently and in conformity with the applicable laws and regulations. Second Party shall carry out the Service in under the supervision of employees of First Party.
5. That the Services to be provided by the Second Party are detailed in this Agreement. However, it is expressly understood between the Parties that scope of work is only indicative of the services to be provided by Second Party and not an exhaustive list of the services to be provided by Second Party and the First Party will be entitled to add more service in the scope of work
6. That Second Party undertakes to fulfill all the formalities and requirements of Government of India, Ministry of Environment and Forest and CPCB and other authorities.
7. That the Second Party will be responsible for disposing Wastes or residues containing oil at price indicated against each item hereunder.

THAT THE SCOPE OF WORK WILL BE AS UNDER:

1. That Wastes or residues containing oil disposal through Second Party under the supervision of representative of First Party.
2. That the representative of the First Party shall observe the loading of the vehicle when used oil is taken from the Second Party. In such cases, Second Party

representative will accompany the truck during the time it is lifted from the Site(s) (The term "Sites", more specifically defined in Annexure A attached hereto).

3. That the clearance of the paper such as gate pass will be provided by the First Party.
4. That at the disposal site, waste will be stored as per the categorization and adequately segregated. All precautions shall be taken to avoid spillage of any kind and leaching to the soil. The Second Party shall ensure that the people handling hazardous waste have adequate training and knowledge of type of hazardous waste being handled.
5. The Second Party shall ensure that the vehicle for transportation of hazardous waste is in perfect condition and the driver has valid driving license and other permission and necessary papers. If any of the transport is approved by State Pollution Control Board is there, then vehicle will be arranged from the transporting agency only.
6. That the Second Party will ensure that before loading all hazardous waste containers are labeled (as per form-12 of the rule).
7. That if any material is found to be taken out by Second Party except for the material which is permitted by the First Party, then First Party will have the sole right to cancel the Agreement with immediate effect. The case will be handed over to First Party's Legal Staff for future action.

THAT THE SECOND PARTY UNDERTAKES AS UNDER:

1. That the Second Party represents that they have the specialization to handle hazardous waste, used oil and have permission under Applicable Rule i.e. Hazardous Waste (Management and Handling) Rules 2016. The Second Party also represents and warrants that it will comply with all the relevant laws and rules as applicable in India and also comply with various international conventions for hazardous waste.
2. That the Second Party will ensure that the hazardous waste will be loaded and stored and copy of TERM card (as per Form-11 of the above mentioned Rule) be given. In case of any doubt, concern First Party's Officials may be asked for the clarification.
3. That the Second Party will produce consent from respective State Pollution Control Board (Form -2) and the approval of the disposal site from Ministry of Environment & Forest.

4. That the First Party will receive the 6 copies of manifest from the Second Party as per form 13 of the above mentioned rule.

- Copy-1 (White): Copy 1 will be forwarded to SPCB/PCC by first party.
- Copy-2 (Yellow): Copy 2 will be retained by first Party.
- Copy-3 (Pink): Copy 3 will be returned by the First Party to second party.
- Copy-4 (Orange): Copy 4 will be returned to the transporter after accepting waste.
- Copy-5 (Green): Copy 5 will be forwarded to Pollution Control Board after disposal.
- Copy-6 (Blue): Copy 6 will be returned to second party after safe disposal.
- Copy-7 (Grey): Copy 7 will be forwarded to Pollution Control Board after disposal.

That the Second Party undertakes to fully indemnify and keep indemnified the First Party in case of any misuse, mishandling, pilferage or spill over of the hazardous waste by the Second Party, its employee, agents and / or any authorized person thereof resulting in any penalty, liability and damages under any rule, regulation, Acts, Notification imposed by the authority concerned that the payments terms will be as under:

1. The respective charges for disposal of Wastes or residues containing oil, payable by First Party shall be as follows:-

S. No	Description	QTY	Unit rates
1	Wastes or residues containing oil., (under 5.2)	Per Kg	Rs. 7/- Per Kg
2	Registration/Agreement Fee per annum	Ontime	Rs 5000.

Note: Minimum Quantity Required 1 Ton. Below 1 Ton will be considered as 1 Ton only

Note – Rates may increase or decrease as per market and same shall be reviewed after mutual understanding of both parties.

- a. All taxes excise duties, sales taxes, wherever applicable, is excluded in the prices at the rate prevailing at the time such taxes are due.

- b. All Payments to be made in 30 days from invoice date by first Party.
- c. The transportation and any other cost required for disposal of Wastes or residues containing oil will be born by Second Party.
- d. First Party reserves its right to review the rates of Wastes or residues containing oil disposal on periodic basis at its own discretion.**
- e. First Party may at any time, without notice to the Second Party set off any liability of the Second Party to First Party arising under this Agreement against any liability of First Party to pay fees to the Second Party. Any exercise by First Party of its rights under this clause shall not limit or affect any other rights or remedies available to it under this Agreement or otherwise.

THAT THE DURATION OF AGREEMENT WILL BE AS UNDER:

- This Agreement shall be affective for a period 5 Years and commenced from **01st January' 2025 to 01st January'2030.**
- First Party may extend the term of this Agreement at its sole discretion.

OTHER CLAUSES:

1. TERMINATION

1.1. Termination for Breach

- 1.1.1.** If Second Party defaults in one or more of the following aspects, then First Party may terminate this Agreement with immediate effect:
- wholly or partly suspends the services without reasonable cause;
 - fails to proceed with the services regularly or diligently;
 - fails to proceed with the services in a competent manner;
 - fails to comply or unreasonably delays in complying with a written direction given by First Party;
 - commits a breach of this Agreement;

- 1.1.2.** In the event of termination, both Parties will fulfil all obligations that accrued to either of the Parties prior to such termination.

1.2. Termination for Insolvency

- 1.2.1.** Upon occurrence of any/ all of the following events, First Party, at any time, without prejudice to any other rights or remedies, may terminate this Agreement with immediate effect. Second Party:

- 1.2.1.1. is unable to pay its debts as they fall due;
- 1.2.1.2. commits an act of bankruptcy;
- 1.2.1.3. enters into a composition, scheme or arrangement with its creditors or calls a meeting of creditors with the view to entering into a composition, scheme or arrangement;
- 1.2.1.4. has execution levied against it by creditors, debenture holders or trustees under a floating charge;
- 1.2.1.5. takes or has taken or instituted against it any actions or proceedings, whether voluntary or compulsory, which has the object of or which may result in the winding up of Second Party (except for the purposes of reconstruction);
- 1.2.1.6. has a winding up order made against it or (except for the purposes of reconstruction) passes a resolution for winding up;
- 1.2.1.7. is a party to the appointment of or has a receiver, receiver/manager, provisional liquidator, liquidator, controller or administrator appointed to the whole or part of its property or undertaking;
- 1.2.1.8. repudiates this Agreement; or
- 1.2.1.9. in the opinion of the First Party, Second Party (or any of its agents and/ or employees) has acted dishonestly and/ or deceptively in any way in connection with this Agreement or the performing of its obligations under this Agreement,

1.3. Failure to Meet Performance Standards

- 1.3.1. If First Party determines that, in more than one regular review conducted by First Party, Second Party's performance of any of the services or any of its obligations under the Agreement was unacceptable then First Party, without prejudice to any other rights or remedies, may by written notice to Second Party terminate this Agreement with immediate effect.

1.4. Termination By Notice Without Breach

- 1.4.1. The First Party may terminate this Agreement at any time without reason by notice in writing to Second Party requiring termination upon the expiry of thirty (30) days from the date of the notice.

2. CONFIDENTIALITY

- 2.1. Second Party agrees to any Confidential Information disclosed to it under this Agreement:

- 2.1.1. to take such steps necessary to protect First Party Confidential Information from unauthorized use, reproduction and disclosure as Second Party takes in relation to its own Confidential Information of the same type, but in no event less than reasonable care;
- 2.1.2. to use such Confidential Information only for the purposes of this Agreement or as otherwise expressly permitted or expressly required by this Agreement or as otherwise permitted by First Party in writing;
- 2.1.3. not, without First Party's prior written consent, to copy the Confidential Information or cause or allow it to be copied, directly or indirectly, in whole or in part, except as otherwise expressly provided in this Agreement, or as needed for the purposes of this Agreement, provided that any proprietary legends and notices (whether of First Party and/ or Client or of a third party) are not removed or obscured;
- 2.1.4. not without the First Party's prior written consent, to disclose, transfer, publish or communicate the Confidential Information in any manner to any person except as permitted under this Agreement.
- 2.2. This Clause 2 shall survive any termination or expiry of this Agreement.

For the purpose of this section the term "Confidential Information" shall mean information disclosed/ furnished by First Party to the Second Party whether disclosed orally or in written or in electronic form. The term Confidential Information shall also include any and all information and/ or data which is obtained/ furnished/ derived, whether in writing, pictorially, in machine readable form, orally or by observation of the representative by the Second Party during their visits, including but not limited to, financial information, technical data, product, service, software, inventions, designs, drawings, engineering, business model, planning, know-how, processes, customer information, data and statistics, market intelligence with regard to customers of either Parties, and other business strategies of either Parties or their customers. Confidential Information shall also include any copy, abstract, extract, sample, note or module of any Confidential Information.

3. GOVERNING LAW AND DISPUTE RESOLUTION

- 3.1. All disputes, controversies and differences arising out of or relating to this Agreement, including a dispute relating to the validity or existence of this Agreement and any non-contractual obligations arising out of or in connection with this Agreement ("**Dispute**") shall be referred for arbitration under the provisions of the then prevailing Arbitration and Conciliation Act, 1996. The arbitral proceedings shall be conducted by a sole arbitrator to be mutually appointed by the Parties . As part of the terms of the appointment, the arbitrator shall be required to produce a final and binding award or awards within three (3) months of the appointment of the arbitrator. Parties shall use their best efforts to assist

the arbitrator to achieve this objective, and the Parties agree that this three (3) month period shall only be extended in exceptional circumstances, which are to be determined by the arbitrator in its absolute discretion.

- 3.2. The arbitral award passed by the arbitrator shall be final and binding on the Parties and shall be enforceable in accordance with its terms. The arbitrator shall state reasons for its findings in writing. The Parties agree to be bound thereby and to act accordingly.
- 3.3. The seat of arbitration shall be at New Delhi and the arbitral proceedings shall be conducted in the English language.
- 3.4. Clause 3 does not preclude a Party from seeking equitable relief, including injunction and preliminary injunction from a court of law.
- 3.5. During the pendency of any Dispute, Second Party shall continue to provide services in accordance with the terms of this Agreement.
- 3.6. This Agreement is governed by the laws of India. The Parties agree to submit to the exclusive jurisdiction of the courts of New Delhi alone.
- 3.7. This Clause 3 shall survive any termination or expiry of this Agreement.

4. **Subcontracting**

Second Party must not assign or subcontract the Services or any part of the Services without the prior written approval of First Party. First Party's approval may be given or refused in its absolute discretion. In the event that part or all of the Services are subcontracted, Second Party will remain fully responsible to First Party in respect of the Services carried out by such subcontractor and the subcontractor's compliance with this Contract and the Agreement.

5. **Relationship between the Parties**

At all times, First Party and Second Party shall act on a principal to principal basis only. Nothing in this Agreement constitutes or may be deemed to constitute a relationship of principal and agent, employer and employee, partnership or joint venture between the Parties or any subsidiary, parent, holding company or affiliate thereof.

Second Party and its employees, personnel, agents, contractors etc. shall have no authority or right to bind First Party in any manner. It is also clarified that the employees and personnel of Second Party shall be employed by Second Party and shall be governed by the terms of Second Party's employment of them and Second Party shall at all times be solely responsible and liable for and in respect of such employees and personnel including in the event of any adverse claims of whatsoever nature made on First Party by and/ or on behalf of and/ or on account of the employees and personnel of Second Party.

6. Stamp duty

The Parties agree that any stamp duty assessed or payable on or in relation to this Agreement shall be paid or borne solely by Second Party.

7. Advertising

Second Party shall not advertise or publish in any manner the fact that the Second Party has contracted with First Party.

8. Prevention of Sexual Harassment

Second Party hereby agrees to be in compliance with the provisions of Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013 and further agrees that:

- a. All acts which fall within the definition of sexual harassment as stated under the legislation would be dealt with in accordance with the provisions of the captioned legislation;
- b. That Second Party will duly constitute an Internal Complaints Committee which would deal with all complaints arising out of the aforementioned;
- c. Second Party also agrees to disclose identities of members of such committee to First Party whenever requested by First Party;

9. Code of Conduct & Compliance with Relevant Requirements

(a) Second Party shall:

- (i) comply with all applicable laws, statutes, regulations, and codes relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010 (Relevant Requirements);
- (ii) comply with First Party's Code of Ethics and Code of Conduct for Second Party as mentioned under Annexure B and any applicable industry code on Anti-Bribery in each case as First Party or the relevant industry body may update them from time to time ("Relevant Policies"). Second Party shall execute and return the acknowledgement in Annexure B and ensure that its personnel understand the Relevant Policies. Failure to abide by the above mentioned provisions and/or this clause provides First Party with an immediate basis for termination as set forth in clause titled "Termination".
- (iii) have and shall maintain in place throughout the term of this Agreement its own policies and procedures, including but not limited to adequate procedures under the Bribery Act 2010, to ensure compliance with the Relevant Requirements, the Relevant Policies, and will enforce them where appropriate;

For Atlas Corporation

 Authorized signatory

- (i) promptly report to First Party any request or demand for any undue financial or other advantage of any kind received by the Second Party in connection with the performance of this agreement;
- (b) Breach of this clause shall be deemed substantial breach.

10. Insurance

- 10.1.1.** Second Party shall (and shall ensure that every approved sub-vendor of Second Party shall), during the term, maintain the following insurance policies:
 - 10.1.1.1.** professional indemnity insurance with a registered and reputable insurer for no less than INR ten million in aggregate; and
 - 10.1.1.2.** commercial general liability ("CGL") with a registered and reputable insurer for no less than INR ten million per occurrence.
- 10.1.2.** The CGL policy must name First Party as the additional insured.
- 10.1.3.** Second Party shall provide evidence of such insurances to First Party within seven (7) days of signing of this Agreement, failing which First Party shall have the right to terminate this Agreement forthwith without any notice to Second Party.
- 10.1.4.** Second Party agrees to a waiver of all rights of subrogation including those of its insurers against First Party and its insurers.
- 10.1.5.** If Second Party is unable to comply with the requirements of this clause, then Second Party agrees and undertakes to:
 - 10.1.5.1.** participate in the Vendor insurance programme ("VIP") organised by First Party for all service providers and vendors, including Second Party involved; and
 - 10.1.5.2.** bear the costs of insurance (including but not limited to the premium) for the VIP and agrees and consents to have such costs off-set from their fees.

11. Safety and Environmental Matters

The Second Party acknowledges and agrees that the overall co-ordination of safety and environmental matters relating to the performance of Services will be exercised by the Second Party.

The Second Party must at all times exercise all necessary precautions for the safety of all persons on the Property and the public, and the protection of the environment.

Throughout the term, the Second Party must comply with all applicable laws, Legislation and requirements of Authorities and the directions by First Party, in relation to occupational health, safety and environment matters, including but not limited to the energy & environmental conservation management policy and safety and environmental best practice guidelines (as amended or replaced from time to time) issued by First Party. The Second Party must advise First Party of any requirement of legislation or of an authority which differs from the requirements of First Party's safety or environmental best practices guidelines (as amended or replaced from time to time).

The Second Party must implement and provide to First Party, a copy of the Second Party's safety and environmental management plans. In case Second Party fails to implement such safety and environmental management plans and submit the copy of the same to First Party within ten (10) days of signing of this Agreement, First Party shall have the right to terminate this Agreement forthwith without any notice to the Second Party. These plans must:

- a. detail any possible safety and environmental risks associated with the Services;
- b. evaluates those risks;
- c. detail risk management practices the Second Party has in place to eradicate or reduce those risks to acceptable levels; and
- d. be provided to First Party prior to the Second Party commencing the services at the site.

12. Representations and Warranties

Each of the Parties hereby represents and warrants to the others that:

It has all requisite power and authority to enter into this Agreement, to perform its respective obligations hereunder.

This Agreement will be duly executed and delivered by it and upon such execution and delivery each shall constitute a legal, valid and binding obligation upon it, enforceable against it in accordance with its terms, subject to applicable law.

It is duly organized and validly existing under the laws of India.

The execution and performance of this Agreement does not violate any law, rule, regulation or order. It is not inconsistent with terms of any agreement, contractual obligation or any other instrument that the said Party is a party to, nor is it in breach

of any of the terms, conditions or provisions of any of the agreements or contractual obligations or any other instrument that the said Party is a party to.

Each Party further represents and warrants to the other Party that each of their respective representations and warranties are true and accurate and not misleading in any manner.

13. Indemnity

The Second Party releases, fully and unconditionally and without set-off indemnifies and shall keep indemnified First Party, its affiliates, directors, officers and employees from and against all claims, demands, writs, summons, actions, suits, proceedings, judgments, orders, decrees, costs, losses, liabilities, damages and expenses of any nature whatsoever which First Party, its affiliates, directors, officers or employees may suffer or incur, arising from or in connection with the performance of Services by the Second Party, and/or breach by Second Party of the representations or warranties, and/ or terms and conditions of this Agreement, and/or any alleged or actual infringement by the Second Party of a third party's intellectual property rights and/or any act, omission, negligence, default, misconduct and/ or fraud by the Second Party or any of the Second Party's officers, employees, agents or sub-Second Party. Without prejudice to any other rights or remedies that First Party may have, First Party shall have the right to withhold from any payments due to Second Party under this Agreement the amount of any defence costs, plus additional reasonable amounts as security for Second Party's obligations under this Clause 13.

This Clause 13 shall survive any termination or expiry of this Agreement.

14. Waiver and variation

A provision or a right created under this Agreement may not be:

- (i) waived except in writing signed on behalf of the Party granting the waiver; or
- (ii) varied except in writing signed by the Parties.

15. Compliance

If the Second Party is registered under Micro, Small And Medium Enterprises Development Act, 2006 (MSMED Act) at the time of execution of the Agreement or gets registered in future under the said Act during currency of its engagement with the First Party, it shall be the Second Party's responsibility to inform the First Party about the same and provide copy of the said registration certificate to the First Party.

16. AUDIT RIGHTS

16.1 Right to Audit: Second Party agrees to allow First Party, or an authorized representative, during the term of this Agreement, and for one (1) year after its termination or expiration, upon providing prior written notice of 7 days to Second Party, the right to conduct full and independent audits, inspections and investigations ("Audit") of all information, books, records and accounts (including, wages, taxes, etc.) directly relating to the Services provided as per applicable laws; to the extent necessary, to verify Second Party's compliance with the terms of this Agreement and the accuracy of invoices. If necessary, First Party or its representatives may: (i) make

copies or extracts of relevant financial statements, systems, processes and records ("Documents") associated with the Audit and with Second Party's performance under the terms of this Agreement; (ii) request additional documents or explanations from Second Party's employees duly designated by Second Party, as necessary to execute an Audit; and (iii) request an internal investigation of any allegations, apprehensions or instances of fraud.

16.2 Audit Confidentiality: First Party shall protect the confidentiality of the Documents and Audit findings. However, if required, First Party may with prior written consent of the Second Party, share relevant Audit observations with its statutory auditors, any internal committee (including but not limited to the audit committee of the board of directors of First Party) or any other governmental/statutory/judicial/quasi-judicial body to the extent it relates to Services provided by the Second Party under this Agreement.

16.3 Audit Findings: In the event the Audit findings relate to overcharging, misrepresentations, unethical practice, fraud, breach of terms and conditions of the Agreement, First Party shall have any and all of the rights stated herein against Second Party, including to: (i) recover the overcharged amount; (ii) suspend/stop all outstanding/future payments; and (iii) immediately terminate the Agreement without any liability and without prejudice to any other rights under this Agreement and/or law. First Party shall bear expenses of all such audits unless material discrepancies are disclosed by such audit, in which event the Second Party shall reimburse First Party only such expenses and disbursements that may have been reasonably incurred for such audit.

16.4 Cooperation: Second Party shall cooperate with First Party's authorized Audit representative in all Audit processes, including but not limited to, providing all requested Documents.

For M/s DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-I)	For ATLAS CORPORATION
SIGNATURE	SIGNATURE  
<u>PARTICULARS OF SIGNATORY</u>	<u>PARTICULARS OF SIGNATORY</u>
Auth. Signatory	Auth. Signatory 

Annexure 'A'

S. NO.	BUILDING NAME	ADDRESS
1	DLF Downtown	DLF Downtown, 100ft Road, Taramani, Chennai-600113

Annexure 'B'

FIRST PARTY CODE OF ETHICS AND CODE OF CONDUCT FOR SECOND PARTY

Acknowledgement of Code of Ethics

Second Party hereby agrees and acknowledges that it has received a copy of the First Party Code of Ethics and Code of Conduct for Second Party (the "Code"). Second Party hereby undertakes to comply with the Code and shall ensure that its employees, officers, subcontractors, agents (together, "Personnel") comply with the same. In particular, Second Party shall not, and shall ensure that its Personnel do not, make, facilitate or assist in making any payments for any unlawful contribution, gift, entertainment or other unlawful expense in connection with the services or this Agreement or make any direct or indirect unlawful payment to any foreign or domestic government official or employee in violation of applicable laws, rules and regulations; and/or make, facilitate or assist in making any bribe, rebate, payoff, influence payment, "kickback" or other unlawful payment prohibited under any applicable law, rules or regulation.

If Second Party becomes aware that any Personnel has violated any provision of the Code, Contractor shall immediately report the same to DLF INFO PARK DEVELOPERS CHENNAI LIMITED (PHASE-I).



Vendor code of
conduct.pdf



Summary Code of
Ethics.pdf

EXECUTED FOR AND ON BEHALF OF

BY ITS DULY AUTHORISED OFFICER:

Authorised officer name:
Title:
Date:

Annexure-XXX

Copy of Email regarding ban on One time use and
throwaway Plastic

Restriction on use of banned single-use plastic (DLF_RENTCO_Downtown Chennai - 1&2_197)



J. Boopathi <Boopathi.J@jll.com>

To: kirubanithi.d@jll.com; Arulmozhi S; b.kannan@jll.com; Hussain, M; Francis, Watson; B, Shanmugam; R. Krishnaraj; R1, Ramya; Mohamed, Ashik; R, Muthukumar; ramadas.c@jll.com
Cc: Tyagi, Dinesh; Srinivasan1, S; Shivaneshwaran S; venkavenkatraman-senthilnathan@dlf.in; Elamaram A.; Muhammad Rafi S; Sasi Selvamony; Balu P; Muthumalai V; Sridharan Kuppussamy; +1 other

Reply Reply All Forward

Sat 20-09-2025 12:06

Caution: Mail received from external domain. Please do not open the mail /link/attachment unless you recognize the sender.

Dear all,

As part of our statutory obligations under the Plastic Waste Management (PWM) Rules, it is mandatory to comply with the following requirements regarding banned single-use plastic (SUP) items:

1. **Avoid Banned SUP Items:** Refrain from using any single-use plastic items prohibited under the PWM Rules.
2. **E-Commerce Compliance:** Ensure that banned SUP items are not sold or used through the online platforms provided by the organisation. [Reference Document](#)
3. **Plastic Raw Material Restrictions:**
 - Do not supply plastic raw materials to producers engaged in manufacturing banned SUP items.
 - All invoices for the sale of plastic raw materials must include the addition:

"Not to be used in the manufacture of Single Use Plastic (SUP) items prohibited under PWM Rules"
 - Provide monthly details of materials sold to suppliers/distributors/dealers/producers, including GST details, to CPD by 7th of every month in the prescribed format. Submit a soft copy of the report to pwm.cpds@dlf.in. [Reference Format](#)
4. **Mandatory Display:** The addition regarding banned SUP items must be prominently displayed at the entry gate of the site for the information of all personnel, suppliers, and visitors.

All concerned teams must ensure immediate implementation and strict compliance. Any queries or challenges should be reported immediately to the Operation Head, CRM, Safety Manager, GPOC, BN, and myself for corrective action.

Compliance with these rules is mandatory, and non-adherence may attract penalties under the PWM Rules.

Thanks & Regards,

J. Boopathi,
Manager - EHS,
DLF Downtown Chennai,
JLL Property & Asset Management,
M +91 8071113340/9557560714
jboopathi@dlf.com
புதுச்சேரி கட்டிட மேலாண்மை,

Building Information Sheet

1. GENERAL INFORMATION

1.1 Name of the Building: **UNITED BANK PLC HEAD OFFICE**

1.2 Address: **1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 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1845, 1847, 1849, 1851, 1853, 1855, 1857, 1859, 1861, 1863, 1865, 1867, 1869, 1871, 1873, 1875, 1877, 1879, 1881, 1883, 1885, 1887, 1889, 1891, 1893, 1895, 1897, 1899, 1901, 1903, 1905, 1907, 1909, 1911, 1913, 1915, 1917, 1919, 1921, 1923, 1925, 1927, 1929, 1931, 1933, 1935, 1937, 1939, 1941, 1943, 1945, 1947, 1949, 1951, 1953, 1955, 1957, 1959, 1961, 1963, 1965, 1967, 1969, 1971, 1973, 1975, 1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025, 2027, 2029, 2031, 2033, 2035, 2037, 2039, 2041, 2043, 2045, 2047, 2049, 2051, 2053, 2055, 2057, 2059, 2061, 2063, 2065, 2067, 2069, 2071, 2073, 2075, 2077, 2079, 2081, 2083, 2085, 2087, 2089, 2091, 2093, 2095, 2097, 2099, 2101, 2103, 2105, 2107, 2109, 2111, 2113, 2115, 2117, 2119, 2121, 2123, 2125, 2127, 2129, 2131, 2133, 2135, 2137, 2139, 2141, 2143, 2145, 2147, 2149, 2151, 2153, 2155, 2157, 2159, 2161, 2163, 2165, 2167, 2169, 2171, 2173, 2175, 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Annexure-XXXI
Fire Safety Plan



EMERGENCY RESPONSE PLAN

DLF DOWNTOWN

CHENNAI - 600113

Prepared by		Verified by	Approved by
Mr. Ashik Mohamed	Mr. Murgan	Mr. Suresh Kumar	Mr. Ramakanta
Manager - Fire Safety	Manager - Security	Sr. Building Manager	SPOC

DISTRIBUTION LIST

The site level emergency response plan shall be distributed to the following persons/ locations:

Sr. No	Particulars
1	ED - Operation
2	Head - Operation
3	VP – Fire & Safety
4	JOC
5	Head- Operations (South)
6	Head- Operations (Downtown)
7	Head - Fire & Safety
8	Head Security
9	Manager - Fire & Safety
10	Manager – Security
11	CRM
12	SPOC – FM
13	Manager Fire & Safety – FM
14	Manager Security – FM
15	Tenants
16	Fire Command Centre (FCC)
17	DMDRP Room

EMERGENCY RESPONSE REVIEW COMMITTEE

This committee will review the ERP Annually or after any major incident /emergency that warrants changes in ERP or to include any critical observation/ learning observed during mock drills.

COMMITTEE MEMBERS

1. Head - Operations
2. Head Fire Safety
3. Head Security
4. Customer Relationship Manager
5. Manager Fire & Safety
6. Manager Security
7. Building Manager-BM
8. Fire Safety Officer - FSO
9. Security Officer - SO
10. Manager Fire & Safety - FM
11. Manager Security - FM
12. SPOC - FM

Details of Amendments/ Revision:

S.NO	Document No	Revision Description	Rev. No	Rev Date
1	DLF-DTT-ERP-001	Review Version	1	01.06.2024
2	DLF-DTT-ERP-002	Final Version Update of Annexures - 01, 02, 04 & 07	2	07.12.2024
3	DLF-DTT-ERP-003	Update of Annexures - 01, 02, 04 & 07	3	20.04.2025
4	DLF-DTT-ERP-004	Addition of MG - 008 Air Raid - Emergency Preparedness & Response	4	15.07.2025
5	DLF-DTT-ERP-005	Inclusion of Emergency Response Time & Update of Annexures - 01, 02, 05 & 06	5	15.10.2025
6	DLF-DTT-ERP-005	Update of Annexures - 01, 02 & 07	5	12.01.2026
7	DLF-DTT-ERP-005	Update of Annexures - 01, 02, 03, 04, 06, 07 & 08	5	15.04.2026

ABBREVIATIONS

ERP	-Emergency Response Plan	BM	-Building Manager
BDS	-Bomb Disposal Squad	LPG	- Liquefied petroleum gas
DG	-Diesel Generator	VP	-Vice President
FSO	- Fire & Safety Officer	SO	- Security Officer
HK	- Housekeeping	AHU	- Air Handling Unit
PA	- Public Address	FAP	-First Aid Point
UPS	-Uninterrupted Power Supply	GIS	- Gas Insulated Substation
SPOC	- Single point of contact	FM	- Facility Management
SDMA	-State Disaster Management Authority		
HVAC	-Heating Ventilation & Air Conditioning		
JOC	– Joint Operation Centre		

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Note: Annexures are to be updated on Quarterly basis and records are to be maintained separately.

1. OVERVIEW AND INTRODUCTION:

DLF is committed to providing a safe & secure environment to all building occupants & visitors. However, any emergency could occur at any time. The likelihood of effectively managing an emergency increase if a well-established emergency response plan is in place. The purpose of this **Emergency Response Plan (ERP)** is to maximize the safety and well-being of all employees, occupants, and visitors by promoting training, drills w.r.t emergency preparedness & Response. It is site specific action plan, which covers the various response agencies, their roles & responsibilities, actions to be taken in case of emergency and appropriate actions required to normalize the situation. The objective is to utilize all resources within and outside the building site as per the action plan, to minimize the impact of the emergency.

This ERP document provides clarity about the defined roles & responsibilities of all key personnel, coordination among response teams, communication, command, and control while dealing with emergencies. The plan also covers awareness, training, and mock drills to promote general awareness and preparedness among occupants.

1.1 PURPOSE:

The purpose of this plan is to identify the different emergencies foreseen at DLF Downtown, Chennai, and to describe roles & responsibilities, actions of the building management team, employees, occupants, and external responding agencies to respond, control and recover effectively from natural and man-made emergencies.

1.2 OBJECTIVES:

The Emergency Response Plan objectives are: -

- To guide and assist various agencies to respond to and manage emergencies in an orderly manner.
- To have a system in place for notification and escalation of an emergency to appropriate levels for emergency actions.
- The resolution of an incident/emergency and the implications impacting stakeholders because of initial and subsequent events.
- Normalizing the situation, enabling the resumption of operations.

This shall include the following:

- i. **Education, Awareness & Mock Drill** – This covers awareness, and training about emergency events that can occur in the building, including risks, ramifications, and response requirements. This also includes creating awareness about the procedures to be followed in case of emergency & to conduct mock drills on various emergency scenarios.
- ii. **Emergency Response and Management** - Includes identifying the emergency responders, their roles and responsibilities including the way they might operate together. The

communication during emergencies and actions of various agencies to manage emergencies in a coordinated way.

- iii. **Damage Mitigation** - To ensure that any harm incurred is minimized, that event-related needs are properly addressed, and those normal operations are quickly restored.

1.3 REFERENCES:

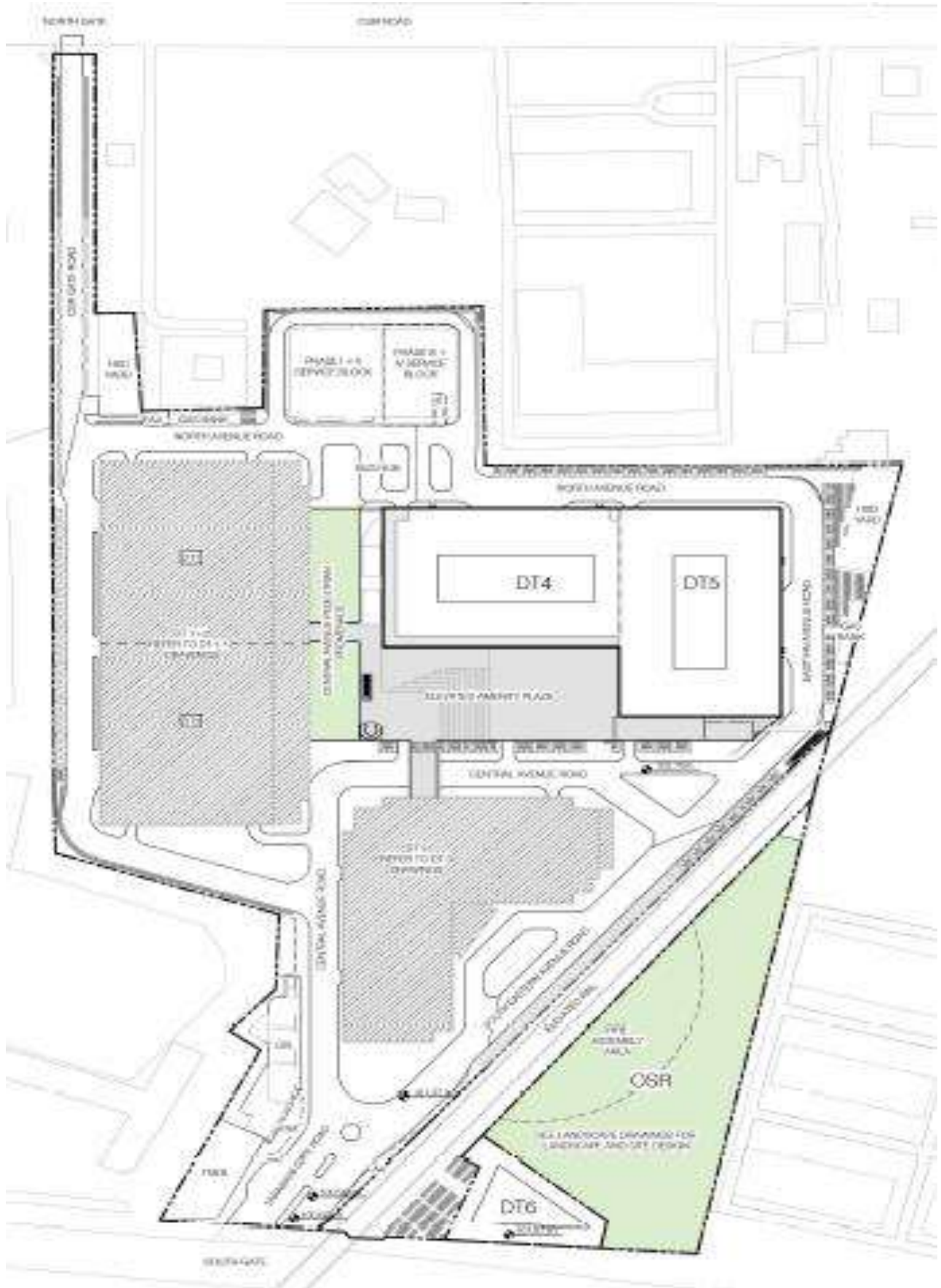
- i. DLF Emergency Response Standard IMS-STD-009-VER-02
- ii. National Building Code of India
- iii. National Disaster Management Authority, India- Guidelines
- iv. State Fire Brigade requirements.
- v. Hazard Identification and Risk Assessment of Emergencies
- vi. World Health Organization Guidelines
- vii. Ministry of Health & Family Welfare, Govt. of India-Guidelines

1.4 SITE INTRODUCTION:

DLF Downtown, Chennai is a commercial building complex, comprising of IT offices and retail/commercial facilities. It is a 25-acre complex located in Taramani, Chennai. A dedicated ambient workspace of 3.3 million square feet of area occupied by various prestigious multinational tenants. The facility is created by global leading names in real estate development, architecture, landscaping, and construction.

DLF Downtown, Chennai is poised to be the ultimate address for business destinations. This is where business leaders can shape their thoughts into market-leading strategies, where chance meetings can change entire industries and the finest of corporate names rub shoulders with the world's most leading brands.

SITE LAYOUT



1.5 SITE SAFETY SYSTEMS – AT A GLANCE

DLF is committed to achieving 100 % compliance as per the requirement of local regulating authorities and has enhanced additional safety provisions exceeding the standard requirements, as a benchmark activity in safety. DLF has been providing extensive plans and arrangements to promote safety to the occupants in terms of fire protection and life safety.

The salient fire & life safety measures provided in the building are listed briefly as follows:

1. Fire Hydrant System.
2. Double-layer sprinkler system (Upright and Pendant Sprinklers).
3. Exclusive fire water storage.
4. Automatic fire detection and alarm system integrated with tenant fire panels.
5. Manual Call points (MCP) with a Talk-back system.
6. Automatic tubular-based clean agent fire suppression system for electrical panels.
7. Automatic fire suppression system for UPS & battery rooms.
8. Kitchen hood fire suppression system
9. Nitrogen injection fire suppression system for oil transformers.
10. Compartmentation of basement areas by fire water curtains.
11. Fire Command Centre (FCC) manned round the clock (24 X 7).
12. Automatic pressurization system for staircases, lift wells and lobbies.
13. AHUs, Supply /Return air dampers, Lifts, and Access control systems are integrated with the fire alarm system.
14. Automatic smoke exhaust system in basements & tenant's areas.
15. Disaster Management & Disaster Recovery Plan (DMDRP) Room.
16. Emergency Lights covering exits and critical areas.
17. Public Addressable Systems for communication and control.
18. Periodical training for fire safety personnel.
19. Mock Drills are conducted including Tenants.
20. Fire Man Lifts for all towers.
21. Façade sprinkler protection and openable panels in the façade.
22. Advance Life Support (ALS) Ambulance with lifesaving equipment like oxygen cylinders and automated external defibrillators (AEDs).
23. Firefighting shaft/fire towers to facilitate firefighting and assisted evacuation through lifts.
24. Multi-purpose Water tender with a water capacity of 4000 liters.
25. Bronto Sky Lift of maximum reach of 61 m for rescue and fire fighting for buildings.
26. Dedicated fire tender with fire crew stationed round the clock.
27. Dedicated Fire Safety Officers are posted at the building on a 24/7 basis.

1.6 SCOPE

The scope of this emergency plan is to cover various emergencies such as fire, earthquake, bomb threat, terrorist attack, civil disturbance/unrest, air raid, windstorm, power outage, gas leakage, medical emergency- food poisoning & infectious disease and the response and actions to be taken by all emergency response agencies including occupants to manage and control the emergency and normalize the situation at the earliest.

The emergency plan and procedures have been prepared based on currently available information. The emergency plan/ procedure may be modified when additional information becomes available / major changes happen or statutory requirement changes or when the DLF Emergency Response Plan is revised.

Emergency Response Plans for the following various types of contingencies are considered.

- 1. Fire**
- 2. Human-caused**
 - i. Bomb threat
 - ii. Terrorist attacks/ Active shooter
 - iii. Civil unrest
 - iv. Air raid
- 3. Natural Calamities**
 - i. Flood
 - ii. Earthquake
 - iii. Windstorm
- 4. Technological**
 - i. Power outage
 - ii. Gas leakage
- 5. Health**
 - i. Medical emergency - Food poisoning
 - ii. Infectious disease pandemic

2. EMERGENCY COMMUNICATION & FIRE INCIDENT NOTIFICATION SYSTEM

All types of Emergencies can be communicated through manual mode. However, the notification of fire occurrence can be communicated through manual as well as automatically to DLF Fire Command Centre. Detailed communication systems are appended below.

a) Manual Mode of Communication:

- i. Breaking Glass of Manual Call point (MCP), which are available at all floors, will communicate the Fire Alarm to the Fire Command Centre.
- ii. Pressing the switch of 'Talk-Back' System, this is provided near staircases at all floors including basements and terrace, one can communicate to the responder at Fire Command Centre.

- iii. The Emergencies can be communicated to fire command centre through telephone /mobile etc. (Emergency contact numbers are displayed at prominent locations).
- iv. Calling Customer Care Numbers: Emergency call can be made by calling customer care numbers as well. The customer care team will then inform the building Fire Command Centre about the emergency.

b) Automatic Mode of Communication to DLF Fire Command Centre:

In case of fire or smoke in any part of the building, the automatic fire detection system will be activated and the alarm will be raised. The Fire Control panel at the Fire Command Centre (FCC) will get the indication and location of fire as the fire detection and alarm system is addressable.

In case of fire in the tenant area, fire alarm indication will come in the tenant fire alarm panel as well as the Building's main fire alarm panel located at FCC.

In case of activation of sprinkler system in any part of the building, the flow switch will transmit a signal as a fire indication in fire alarm panels located in FCC.

In case the sprinkler is activated in the tenant area, the signal will transmit to the tenant's fire alarm panel and main fire panel in FCC.

DLF Downtown, Chennai has the following types of Automatic Emergency Communication and Alarm Facilities: -

1. Fire detection & alarm system- Provides early warning in case of fire (PA system is also provided)
2. Sprinkler system – Provides alarm in case of activation due to fire.

3. INCIDENT COMMAND & CONTROL SYSTEM

The Incident Command & Control system is to set up unified decision-making process and to develop necessary control and coordination mechanisms, from various groups of Emergency Responders, throughout the Emergency Response Management. The roles and responsibilities of site incident controller, Emergency Management controller, fire team leader, security team leader, fire warden and other key personnel/team are given in clause number 4.

The Incident controller is responsible for making suitable & quick decisions, to control & monitor emergency response activities being carried out by his team and the occupants.

The scope of an Incident controller is limited to his area of jurisdiction. The Incident Controller is responsible for making suitable & quick decisions, to control & monitor emergency response activities being carried out by his team and the occupants.

If an incident occurred at any part of a building which comes under the Tenant Area, then, the Incident Controller would act in consultation with a senior level employee of that Tenant Area.

However, when DLF ERT Members respond to an incident, which happened at any Tenants' workplace, it becomes the responsibility of Tenant's Incident Controller to allow them to the incident place irrespective of the fact whether the event is closed or open. If an incident happens at any part of the Tenant's space but the event comes under the assistance of DLF, then the DLF Site Head / Representative would be the Incident Controller of the incident.

If any incident starts at the Tenant Area but connects with the Common Area, then overall in charge for that incident will be led by the DLF Site Head / Representative. However, the decision-making about the re-entry of Tenants' employees into their workplace will be the responsibility of the concerned Tenants' Administrative Officer in consultation with DLF / Govt. Authorities, whichever is applicable and suitable.

4. ROLES & RESPONSIBILITIES OF ALL KEY PERSONNEL & ERT TEAMS:

The specific roles and responsibilities of various team leaders & Emergency Team Members are given below: -

Roles	Key Responsibilities
<p>Emergency Management Controller - FM SPOC</p> <p><i>Alternate: Operation Head(FM)/Senior Most FM Officer</i></p> <p>Guidance: Operation Head</p>	<ul style="list-style-type: none"> • Overall emergency coordination. • Communicate with Site Incident Controller and mobilize supporting groups. • Call out and mobilize key personnel. • Direct emergency actions (e.g., getting external firefighting assistance, medical support, police support, /equipment isolation/shutdown, etc.) • Monitor personnel accounting status and activate rescue operations. • Ensure liaison with Hospitals, media, and other external emergency organizations. • Communicate site emergency status to all concerned from time to time. • Announce all clear messages. • Site recovery and normalization

<p>Site Incident Controller</p> <p>Building Manager (BM)</p> <p><i>Location:</i> Incident site</p> <p><i>Alternate:</i> Shift Manager</p>	<ul style="list-style-type: none"> • Organize an emergency response team. • Size up emergency and decide on response strategy and tactical plan. • Size up control zones. • Set up field Incident Post. • Command and direct emergency response actions • Deploy emergency equipment. • Direct rescue operations upon getting instruction from the Emergency Management Controller. • Communicate with Emergency Management Controller & update onsite incident status. • Monitor the safety of operations and ensure operations. • Monitor personnel fatigue and stress.
<p>Fire Team Leader</p> <p><i>Location:</i> Incident site</p> <p><i>Alternate:</i></p> <p>Fire Head (FM)</p>	<ul style="list-style-type: none"> • Direct firefighting and rescue operations. • Coordinate and manage emergency equipment and supplies. • Mobilize fire & rescue equipment to the site as required. • Get feedback on the water level in the firewater tanks and plan contingency measures. • Schedule the rotation of firefighting teams as needed. • Keep reporting the situation to the Incident. • Plan for rescue operations and get help from external resources. • Plan and mobilize all required tools and equipment for rescue operations. • Coordinate with an external firefighting agency, if called. • Ensure proper selection and availability of required PPEs. • Be aware of team members' fatigue and stress.
<p>Fire Fighter (Firemen)</p> <p><i>Location:</i> Incident site</p> <p>Alternate: Fire Trained Security personnel</p>	<ul style="list-style-type: none"> • Take instructions from the Fire Team Leader. • Carry out firefighting & rescue operations as directed. • Select & use the correct extinguishers. • Work in pairs (Buddy system) as required. • Retrieve all hoses, nozzles, and equipment after the emergency is over. • Decontaminate exposed equipment and PPE. • Take charge of all available extinguishers at the site. • Communicate with the hydrant team and other teams. • Retrieve all used extinguishers and send them for refill after the incident. • Assist in dewatering during flooding.
<p>Pump Operator(Plumber)</p> <p>Location: Fire pump Room</p>	<ul style="list-style-type: none"> • Take instructions from the fighting team leader. • Attend to the fire pumps and continuously monitor their operating conditions, report conditions to the Fire team leader. • Monitor the firewater tank level. • Monitor the diesel tanks and coordinate the topping up of diesel. • Must not leave the fire pump room until relieved.

<p>First Aider</p> <p>Location: Incident Site</p>	<ul style="list-style-type: none"> • Rendering first aid treatment. • Take instructions from the incident controller. • Help the ambulance staff to safely shift the injured person (IP) • Assist the incident first aid center and monitor the injured person (IP) <p>Keep reporting the updated situation to the Incident controller.</p>
<p>Security Team Leader: Security Officer</p>	<ul style="list-style-type: none"> • Take instructions from the Site Emergency Management Controller / Incident Controller • Close all access gates as required and redeploy guards. • Control traffic and divert traffic away from the incident site. • Control crowd at all access gates and keep non-essential personnel away. • Hold visitors and press personnel away from the affected building. • Direct external emergency teams to the incident site. • Assist the firefighting, first aid & rescue teams with trained guards. • If the Police called for a bomb search, assist them during the search operation. • Ensure no one can stay in potential flooding areas during flood threats.
<p>Fire Command Centre (FCC) In charge</p>	<ul style="list-style-type: none"> • Receive emergency call and note down all details: <ul style="list-style-type: none"> • Type of emergency Fire/ Gas leakage etc. • Location of incident • Inform about emergency to FSO, Fire Tender Team, FM, SO, BM & CRM. • Call an ambulance to respond to the emergency site. • Inform DLF Fire Station Phase III. • Get feedback from the emergency site. • If the need arises, Call external help from the TNFRS / Police in consultation with the incident controller. • Coordinate for additional supplies of emergency resources from other DLF buildings.

<p>Floor Wardens / Fire Wardens</p>	<ul style="list-style-type: none"> • Ensure that type of emergency /evacuation is notified to all personnel available on the floor. • Ensure area occupants leave the building in case evacuation is required. • Inform occupants to report at the assembly area. • Check rooms on the assigned floor to ensure they have been evacuated. • Assist and/or direct occupants with limited mobility either to the refuge area or downstairs if able to negotiate the stairway. • Leave the building as soon as possible and go to your assembly area. • Check off co-workers who safely reported to the assembly point from the occupant list. • Collect information on missing personnel known, or suspected to still be in the building, and report to emergency personnel. • Familiarize themselves with the floor or area of their responsibility. • Identify people who will require special assistance during evacuation. • Ensure that firefighting equipment is available at the correct locations • Ensure that staff is conversant with the Emergency Evacuation Procedures and the correct use of firefighting equipment. • Ensure that passageways and exits are always kept clear. • Inform employees to check for suspicious objects (in case of bomb threat) in their workplace and report.
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4.1 FIRE FIGHTING TEAM

1. On reaching the fire spot, a quick assessment is to be made about
 - The location of the fire,
 - Type of fire (materials involved in the fire),
 - Extinguishing the medium to be used,
 - Accessibility and reachability for fighting the fire.
2. Care and consideration are to be given to the aspect of secondary hazards to people and property owing to the impact of the firefighting medium, which is to be used.
3. Assess whether the fire is likely to spread quickly or not.
4. If fire spread is imminent then send call for assistance and use Hose Reel Hose [HRH] or Wet-Riser Delivery Point with proper assistance (ensure electrical supply is cut -off before using water based extinguishing media).
5. Always look for a trapped person. If yes, rescue should be the priority.
6. While calling assistance, clear information about the correct location, type of fire, and hazardous materials involved should be provided.
7. While using pressurized water, care to be exercised to evacuate people from the place of fire, to avoid forced debris/small particles that may fly & hit over eyes and face owing to the high-pressure water jet.
8. All firefighters should be with full PPE, covering the whole body.

9. In the case of solid combustible items 'Water jet' is preferable to dilute the fuel as well as to penetrate water into the burning materials and consequently causing reduction of fire temperature and retarding fire spread.
10. But in the case of lightweight items / powder-like items, 'water spray' may be used as the use of a Water jet may cause 'flying fire' by its force.
11. Further 'Water Spray' is preferable to dilute smoke density, temperature, and toxic gases.
12. Before entering a building under fire, one should understand whether the fire in the building would be in a 'flaming / developing mode,' by knowing/observing the following aspects:
 - Likely duration of fire,
 - Color of smoke coming out from the building.
 - Observation of any "Hissing Sound" near the window/door/any hole.
 - Take the advice of the seniors to enter or not.
14. In case of opening a window or door of a building under fire, the temperature level of the window/door may be felt by cautiously placing your palm at the top, middle, and bottom of the door/window. If the feel of the temperature at the middle and bottom points bearable and increasing, then window / door should not be opened without arranging "Water Spray" protection in addition to full PPE.
15. If fire involves electrical or electronic items, before applying water over it, verify whether power was switched off. In case of any uncertainty consult an electrical specialist.
17. If fire involves chemicals or metals before using water, consult a safety specialist and get advice for further selection of extinguishing medium and suitable method.
18. On complete extinguishment of fire, thorough inspection must be made to find out any "Pockets of Fire" in any hidden area / under / beneath the debris and that must be quenched.
19. As much as possible 'evidence of fires' must be preserved and avoid any attempt which may cause dislocation/disappearance of evidence.
20. The Fire Scene should be barricaded till firefighting and fire investigation activities are completed.
21. Used fire equipment must be put under maintenance and made ready for further use.
22. If any equipment cannot be put into immediate use, alternative replacements should be arranged.
23. Necessary documentation to be made available for future reference.

4.2 SEARCH & RESCUE TEAM

1. Search & Rescue Team should reach the incident place to ascertain, understand and communicate the threat imposed in terms of damage, injured persons, evacuation status, the scope for rescue activities, a trapped person if any, nature of assistance required, usable condition of escape routes and exit passages, secondary imminent fall hazard and any other secondary hazards to be mitigated such as fire, electrocution etc.
2. Rescue Team should assess the situation and type of rescue activities to be done and what type of equipment's might be required to carry out rescue activities.

3. A Team should be ready to do logistic work such as utilizing disaster management equipment's from DMDRP Rooms or from any source points.
4. Before starting and while doing any rescue work, the safety of rescuers must be ensured and monitored by an exclusive person from the rescue team. If safety cannot be ensured while doing rescue, the activity can be withdrawn, and information should be sent accordingly to get special assistance.
5. The Rescue Team must search out all the places of buildings to find out any trapped persons.
6. The rescuers should be equipped with portable torch lights and Walkie-Talkie along with necessary PPEs. There may be situations that require the use of Hydraulic or power operated tools & equipment's for rescue operation. Only trained persons can operate such equipment, if they have one, otherwise, they should seek assistance from the Fire Department.
7. Rescued persons should be taken to a protected/cordoned safe area where ambulances can be reached. Rescued persons should not be left alone without any care or attendee.
8. In case the rescue activity is complicated, they send a request to the Govt. Fire Services through the FCC instead of performing it themselves.
9. While performing rescue work, special care must be taken to prevent further damage, complications, or injury to the victim.
10. The accountability of rescued victims and the corresponding communications must be properly maintained.
11. Rescue of life is the top priority, 'most serious while comparatively less complicated' cases should be the top in priority.

4.3 EVACUATION TEAM

1. The Evacuation Team shall support the orderly and safe evacuation of all occupants.
2. The team shall provide the necessary support to evacuees, by giving special aid, in terms of age, gender, non-ambulant, differently able, wheel user, would-be mothers, etc.
3. The evacuation team shall monitor and liaise with Tenant ERT Members for ensuring proper evacuation and to find any missing persons.
4. The Evacuation team shall make out special efforts to search out for any trapped person in places like basements, confined / remote places. If anyone is found, help to evacuate. If he is to be rescued inform the Rescue Team to get their assistance.
5. The Team shall support and monitor all occupants assembled at their respective assembly areas.
6. The Team shall not allow any occupants to re-enter the building.
7. The Team shall ensure that the assembly area and the end route to the assembly area are safe and cordoned.
8. The team shall watch out whether necessary messages/communications are reaching those who are in the assembly area. If the message or announcements are not reaching effectively, then supportive actions should be taken such as repeating the message and making any suitable corrective actions.
9. The Evacuation Team shall develop proper coordination and ground-level interaction with Tenant ERT Members with the help of CRM and BM of the respective building to ensure ground-level evacuation discipline and to mitigate any problem in the assembling area.

4.4 ASSEMBLY AREA TEAM

1. The Assembly Area Team shall ensure the safe assembly area is free of any obstruction and in case of any emergency during night-time, the team will ensure necessary lighting arrangements at the safe assembly area.
2. The team shall ensure that the respective building Tenants are properly guided to the respective assembly area.
3. Shall help the respective Tenant ERT team for the safe arrival and headcount process.
4. Shall ensure proper cordoning off the assembly area.
5. Shall always get necessary instructions from ECC and ensure the same is being passed on to the associates assembled in the area.
6. The team shall ensure necessary water and medical care at the assembly area which might occur during assembling of associates.
7. Special areas are to be arranged for differently abled and expectant mothers etc.
8. After all clear signals from ECC, they shall assist/guide the associates for the proper re-entry process.

4.5 SECURITY, TRAFFIC & CORDONING TEAM

1. Exit and Entry control over four-wheelers and two-wheelers at the main gate to be regulated / Stopped as per the requirements.
2. Exit and Entry to basement ramp also to be restricted/stopped as if required.
3. Vigilant security measures are to be enforced to avoid traffic jams preventing entry to emergency vehicles to the incident place.
4. In case the normal route cannot be used due to blocking by debris / fallen trees, try to remove those items, if possible, to keep the road ready for use.
5. If a normal route cannot be used, plan an alternate route for the use of emergency vehicles and Ambulances after contacting ECC.
6. Measures to ensure unauthorized persons' entry and stop the unauthorized exit of materials.
8. A team shall be kept ready to bring in the Govt. authorities and proper care while going out through the main gate.
9. Arrange proper assistance to give first aid, drinking water arrangement, would be mothers care at the assembly area, medical assistance to the injured, etc.
10. Control over entry of visitors, contractors, and vendors and their availability with reference to the entry/pass documents.
11. A team shall be kept ready for cordoning areas of rescue activities, assembly, escape routes, and temporary opening/closing of emergency paths.
12. If a car is found in a damaged condition in basement areas and fuel is in leaking condition, that should be cordoned off and information to be sent to the Fire team.

4.6 EMERGENCY CONTROL AND COMMAND (ECC) / COMMUNICATION TEAM

1. On receipt of the incident message, ALERT / INSTRUCTIVE / EVACUATION messages, as per the need, through the Fire Command Centre (FCC) / BMS to all the occupants to act in accordance with the emergency procedure as specified in this document.
2. ECC must be organized at a reasonable distance and all emergency teams are to be called for assembling at ECC and assign tasks as per the plan and need.
3. ECC shall act as a platform for effective communication between various ERT Members to extend effective coordination and control mechanisms till the event is over.
4. Connect with the Metrological Department to get updated information for further communication in case of flood, cyclone, earthquake, etc.
5. Liaison with other Govt. agencies such as Fire Services and Police Departments etc. for requesting further assistance and reports.
6. In times of failure of normal communications such as telephones, mobiles, and sometimes walk-talky, alternate communication systems to be arranged such as Mobile louder (battery operated), Vehicle mounted PA system, and the last Runner system.
7. In a major disaster, an Information Centre shall be arranged and headed by a senior level to cater to the need for meeting communication amongst occupants, families, and external agencies (like the press, and Govt. Authorities) without affecting the emergency communication requirements.
8. 'All clear' announcements shall be made only after getting authorized information and this announcement shall be shared with the respective Tenants' /Operational team and Fire & Safety Head and in turn they must take a call to verify and inspect their workplace to confirm themselves before making an announcement of 'resume to workplace' to their employees.

4.7 TECHNICAL SERVICES

A Technical Team shall be ready to cut off and resume power and A/C Services to the Tenant Areas to ensure safe use of such services.

1. While cutting the power supply, the team shall ensure that emergency lights are on for safe evacuation.
2. The Fire Pump Operator Team (Plumber and Electrician) shall be available to stop and start pump operation as per the requirement.
3. In case of water leakage/flow due to a pipeline break, the plumbing and housekeeping team should be ready to attend to arrest water flow and cleaning.
4. In case of total power failure, portable power generators with floodlights are to be arranged for the purpose of evacuation as well as rescue operations.
5. In case of secondary hazards such as fire, or broken live electrical wires, necessary mitigation measures are to be done to prevent further threat.
6. In case of fire line water damage at basements, causing water stagnation, pumping out arrangements is to be arranged either using internal resources or from outside resources.
8. A team can inspect the firefighting water and diesel storage tanks' physical condition and availability of water and diesel for further use.
9. Before resuming the services of power, A/C, water supply (both domestic and fire line) and gas supply, a thorough '**pre-check**' is to be done. After charging '**after check**' should be done to ensure safe operation.

4.8 FIRE LIFT OPERATION TEAM

1. The purpose of Fire Lift operation during an emergency is, subject to 'Risk Calculation', to provide support in reaching the firefighting/rescue crew to the upper floors, without causing time delay and without wasting their physical energy level, with the necessary accessories. Further non-ambulant persons could also be evacuated, using a fire lift, during an emergency, when they do not have any other means of evacuation.
2. The Fire Lift operation team shall be ready to operate the fire lift and Fire lift operation shall be done only by authorized/trained personnel.
3. The use of fire lift and the sequence of fire lift operation shall be strictly followed by the operators as specified in DLF SOP (IMS No.025-1) for Fire Lift Operation.
4. The operation of Fire Lift will have two phases of operations, namely First Phase and Second Phase.
5. In the First Phase, the fire lift will come to the Evacuation Floor, which is normally Stilt 1, on activation of either the Fireman switch or fire alarm integration, whichever arrangement is applicable to a building.
6. After reaching the evacuation floor, the fire lift's doors will remain in open position. At this stage, the first phase of operation is over, and the lift will not register any calls from any floor.
7. Now the lift is ready for the Second Phase of operation subject to the condition that the Fireman switch should be kept in the ON position.
8. The Fire Lift shall be operated by a team of 4 firefighters /authorized trained personnel.
9. Amongst the four, one shall be exclusively for the lift operation, and he shall not leave the lift operation duty till the task is either completed or cancelled.
10. Before beginning the second phase of lift operation, the team shall get specific information about the fire floor location, the nature of fire/smoke spread and any person must be rescued accordingly and considering the risk factors, the decision shall be taken to reach one or two floors below to the fire floor. The lift shall never be moved to the actual fire floor or above that floor.
11. After deciding the floor to which lift car is to be reached, the following actions shall be carried out by the designated operator.
12. To close the lift doors, the 'door close' button is to be continuously pressed till the door is completely closed. If not, the doors will go back to the open position.
13. After getting the lift car's doors in a closed position, then press the selected floor button continuously till the car reached the desired floor. If not, the car will remain in the same position.
14. On reaching the desired floor, press the 'door open' button to open the car doors. On opening the car doors, take care to look out for any smoke/fire traces which may run into the life car. If there is such a threat, then do not press 'door open' button, so that doors get closed automatically. Further move down the lift car one level below following the same precautions.

15. If you do not find such a threat at the desired floor level, then continuously press 'door open' button till the doors is completely opened.
16. On getting the doors fully opened, excepting the car operator, the remaining personnel are to take care of firefighting/rescue activities as per the site requirements.
17. During the firefighting / rescue activities the operator shall maintain vigil in watching about smoke and fire threat as well as to ensure communication network with the working crew. If necessary, the operator may call back the working crew to return to safer place / floor.
18. On completion of task, the crew shall immediately return to ground floor with the accessories by using the same lift car.
19. After reaching the ground floor, switch off the 'Fireman Switch', if the lift operation is not required anymore.
20. The entire fireman lift crew shall be in constant touch with the ECC team during the complete operations including completion of task or cancellation of task.

4.9 ERT TRAINING & COMPETENCY

1. The training for ERT members is planned and conducted regularly to enhance their skill level, knowledge, and attitude for handling all the emergency situations given in the emergency plan.
2. The training is planned to cover the identification of different types of threats, learning after each emergency, whenever ERT personnel or their responsibility changes, when tenants change, layout or design changes happening which impact the policy or procedures and the required changes to be adopted in the existing plans and practices.
3. The training is used to ensure sufficient and adequately trained people are available to respond and carry out the activities outlined in the emergency plan. A regular third-party expert is involved to improve the competency level of all ERT members including specialized ERT members like first aid, Bomb threat, etc.
4. Training is planned to enhance the competency, confidence level, and role clarity of all ERT members and to gain hands-on experience in using emergency equipment kept in DMDRP room which are periodically checked for its reliability and usability. The training will cover a regular mock drill for DMDRP alone.
5. Also, a regular mock drill involving only ERT members is conducted to put the plan in practice and to reduce the identified gaps.
6. Regular training feedback at the end of each training session is obtained as a key component for enhancing the session as there may be very critical observations which might have very significant impact.
7. Documentation including evaluation of such training is recorded and analyzed periodically to enhance the competency level of ERT members.

4.10 FIRE / FLOOR WARDEN TRAINING

1. The Building Team provides training to Tenant Fire wardens with respect to safety-related topics like fire safety, electrical safety, kitchen safety, home safety, women's safety, etc.,
2. Training sessions are conducted either at training halls or at Tenant's premises based on the requirement.
3. Training covers both theory and practical sessions.
4. The fire warden training shall be conducted at least once in six months.
5. All such trainings are documented for records.
6. All fire wardens should undergo training.

5. EMERGENCIES

Various types of identified emergencies, which can occur in the building are listed below:

- Fire
- Bomb threat
- Terrorist Attack/ Active shooter
- Earthquake
- Floods
- Windstorm
- Civil unrest
- Major power failure
- Gas leakage
- Medical Emergencies like Food poisoning
- Infectious disease pandemic
- Air raid

The Emergency Action Plan for each type of emergency listed above is given below:



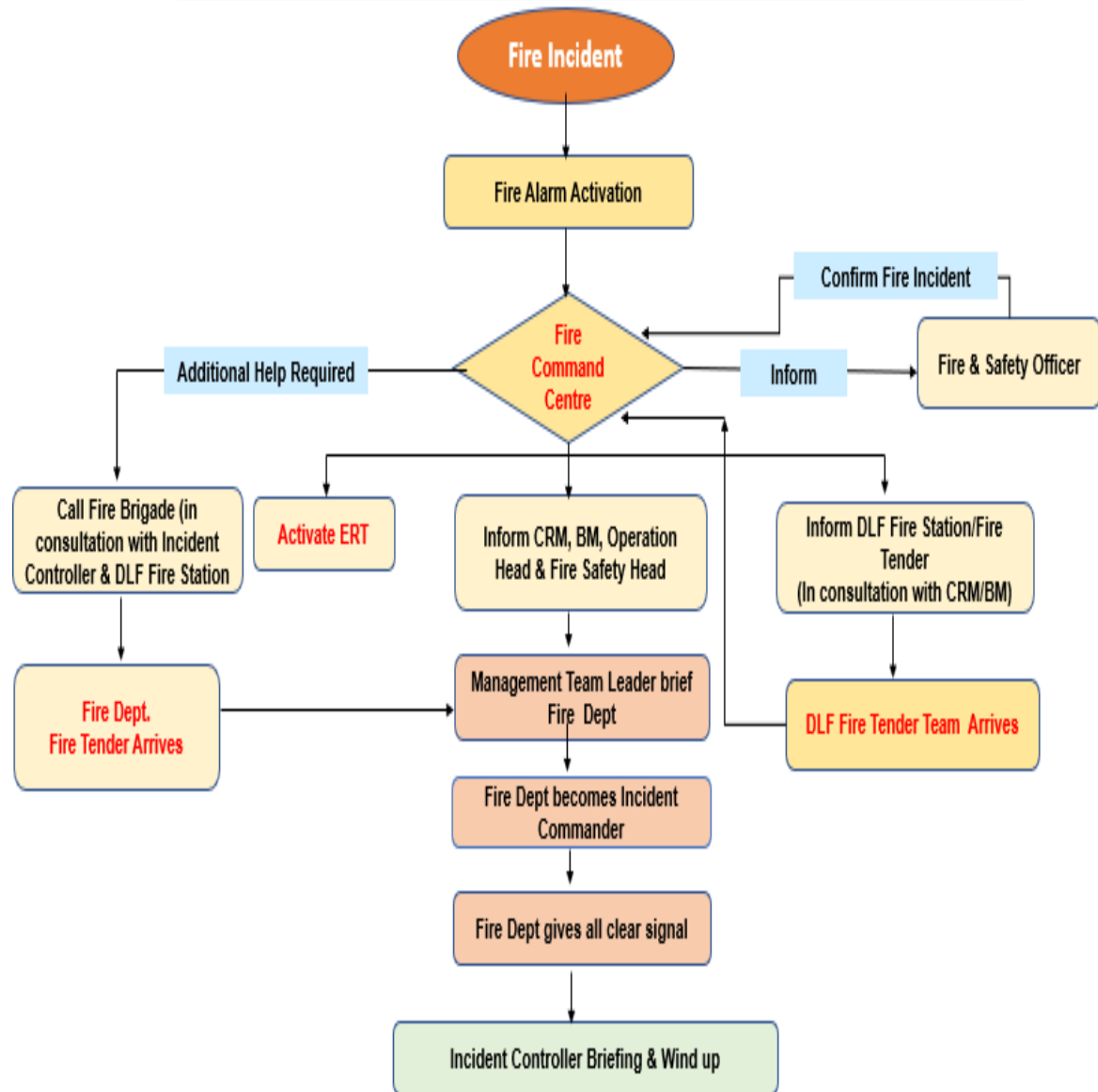
5.1 FIRE EMERGENCY

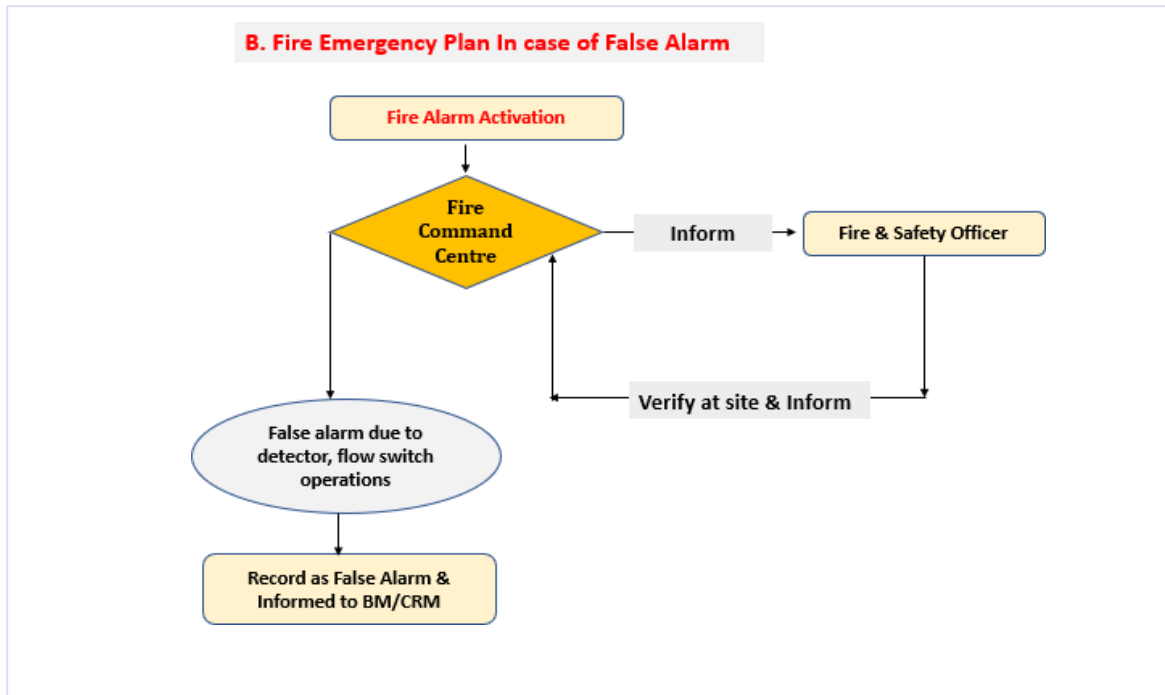
In case of fire in a building, safe evacuation of its occupants requires planning for an orderly evacuation, which should be planned, and all occupants should be well drilled in systematic evacuation. Any person noticing a fire or smoke shall immediately report such condition to the Building Fire Command Centre (FCC) or raise alarm by operating manual call points.

In the case of fire in tenant areas, the tenant fire warden shall ascertain the location of fire, and direct evacuation of the floor based on fire condition, and inform to FCC.

Response Action Flow Chart for Confirmed Fire Alarm & False Fire Alarm Cases are depicted below:

A. Action Plan In case of Confirmed Fire Incident





5.1.1 FIRE INDICATION- RESPONSE PROCEDURES

On receipt of the Fire Alarm & Indication in the FCC Panel, the responder will do the following actions in the sequence given below:

I. Actions at Fire Command Centre -Fire Alarm Panel:

- On receiving fire alarm or incident information, the Fire Command Centre operator communicates to the Fire Officer /DLF Fire Station/ Security Officer.
- Fire Officer rushes to the site with firemen available at the site.
- On reaching the site, the Fire Officer will assess the condition & inform the Fire Command Centre.
- If a false alarm happens, the Fire Command Centre operator will silence the alarm and reset the system.
- If the genuine fire is confirmed, the Fire officer will inform the Fire Command Centre and start the initial firefighting.
- If the Fire Officer/fireman confirms the fire is genuine with status, the following actions are required to be taken.
 - a. The control room operator raises the emergency call through a walkie-talkie to alert ERT Members to respond to the fire site.
 - b. Based on feedback from the fire site, simultaneously FCC Operator will initiate the fire alarm and make a PA announcement for evacuation of the affected floor and one floor above

and below / fire zone, immediately. While taking the evacuation call the onsite team (FSO/SO) may contact CRM/ BM in case of any doubt.

- c. Based on the situation and direction from the site fire team, subsequent floor evacuation/total evacuation may be announced. (Note that if the situation warrants/ fire is out of control or spreading, the Fire Officer may initiate the evacuation under intimation to the Fire Command Centre, even before the arrival of the ERT team)
- d. Fire wardens will start assisting in evacuation and prioritize their evacuation based on parameters like specially-abled persons/injured/children/pregnant ladies etc.
- e. The fire officer shall continue to inform the Fire Command Centre about the fire condition and request additional support if required.
- f. In the event of fire, Fire Command Centre to communicate all concerned as per laid down procedure.

II. Action in case of fire incident at Common Area:

- a. In case of fire in a common area, the Fire Command Centre will inform the Fire Officer and will immediately respond to a site and verify whether the fire is genuine or not and inform the control room accordingly. If the fire is genuine start firefighting using fire extinguishers, hose reel hose, and FHC. Inform the situation frequently to the Fire Command Centre and ask for assistance as required.
- b. After extinguishment, inform FCC / BM /CRM about the same.
- c. Even if the fire is completely extinguished, check for any pockets of fire or smoke in the surrounding areas. Fire Watch is to be continued for an additional period even after extinguishment to ensure there is no re-ignition.
- d. If the fire is extinguished by using fire extinguishers, the same is to be replaced with usable extinguishers, and used extinguishers to be sent for refilling. Used extinguishers should not be kept for operations.
- e. After the use of the hose reel hose, run out the water, then do 'rolling in' and ensure the nozzle valve is properly closed.
- f. In case fire is not controlled / intense fire/fire at different locations / likely to spread, immediately communicate to FCC for assistance and start preparing the use of FHC Hoses with a branch and start using wet riser when supporting person(s) arrive.
- g. After fire extinguishment and ensuring no further ignition of fire do 'water drain out' from the used fire hoses and send the used hose for drying and keep spare hoses in the FHC with a branch.
- h. Then on reaching FCC, ensure the Fire Alarm Main panel system is in normal working mode.

III. Action in case of Fire Incident at Tenant Area:

- a) In case of a fire alarm in the tenant area, the tenant fire warden shall immediately assess the situation and inform the building Fire Command Centre whether it is a genuine alarm or a false alarm. Meanwhile, he should also take suitable action to control/ contain the fire using fire extinguishers & evacuation of the occupants in their areas as per situation.

- a) In case of a fire alarm from the tenants' area, the Fire Command Centre informs the building FSO. The FSO along with Firemen to rush to the respective tenants' area and verify / identify the location of fire and inform to the Fire Command Centre about the incident situation and take firefighting action. The ERT/ Building team shall be alerted by the Fire Command Centre and ERT team to reach the site and quickly assess the firefighting & evacuation requirements as per the site situation.

IV. Firefighting in Basements for Electric Vehicles:

- a. India aims to become a manufacturing hub for electric vehicles (EVs) under its 'Make in India' initiative. The government has announced initiatives such as FAME India and PLI schemes to drive local production.
- b. Electric cars function by plugging into a charge point and taking electricity from the grid. They store the electricity in rechargeable batteries that power an electric motor, which turns the wheels.
- c. Electric cars accelerate faster than vehicles with traditional fuel engines.
- d. Overheating and fire hazards are common concerns associated with EV stations. Improper installation, faulty equipment, or charging a vehicle with a damaged battery can all increase the chances of overheating, leading to a fire.
- e. Lithium-ion batteries are more commonly used in EVs. Not only can the smallest penetration cause them to explode, but also a minor overheating, or even outside temperatures being too high, can cause a fire. A lithium-ion battery fire releases large amounts of heat, smoke, and toxic gases, which can pose a serious risk to human health and the environment.

Since these vehicles are parked in our basements, special precautions are required while dealing with fires associated with Electric Vehicles.

Precautions:

- a. The parking space is to be protected by sprinklers. This will protect the area in case of a large fire outbreak.
- b. Since batteries of EVs are of Li-ion type, they can react with water. Hence using of Water type fire extinguishers is discouraged. All Water-type fire extinguishers are to be removed from EV charging areas. ABC/DCP-type Fire extinguishers are suitable to fight Li-ion Fires and should be placed near charging stations.
- c. Common charging facilities in basements shall not be permitted as the improperly fit charging plugs can lead to ignition.
- d. During firefighting, it is preferred that firefighters use Breathing Apparatus to protect themselves against any toxic gas generation.

Action to be taken in case of Fire in EVs.

1. Alert others and raise the fire alarm.
2. The Fire Team approached the fire with an ABC Fire Extinguisher.
3. Alert/ Intimate RIV crew for assistance.
4. Wear a BA set while fighting the EV fire.
5. In case the fire grows and the sprinkler not operated, Use a Fire Hose from the Nearest Hydrant point, so that a large volume of water is poured on the vehicle.

5.1.2 Pre-Firefighting procedures

- a) On reaching the fire spot quick assessment is to be made about
 - a) The location of the fire,
 - b) Type of fire (materials involved in the fire),
 - c) Extinguishing the medium to be used,
 - d) Accessibility and reachability for fighting the fire.
- b) Care and consideration are to be given to the aspect of secondary hazards to people and property owing to the impact of the firefighting medium, which is to be used.
- c) Assess whether the fire is likely to spread quickly or not.
- d) If fire spread is imminent then call for assistance to FCC.

5.1.3 PROCEDURE DURING FIRE FIGHTING

- a) Always look for a trapped person, rescue should be the priority.
- b) In case of a small fire, use fire extinguishers/ hose reel till it is completely extinguished.
- c) If a fire cannot be put out by using fire extinguishers/ hose reels, call for assistance and use a Fire Hose Cabinet (FHC) with the help of a trained person.
- d) While calling for assistance, clear information about the correct location, type of fire, and hazardous materials (if any) involved should be provided.
- e) All firefighters should use appropriate PPE.
- f) 'Water Spray' is preferable to dilute smoke density, temperature, and toxic gases.
- g) Before entering a building/room/area under fire, adequate precautions should be taken from a safety point of view.
- h) In case of opening a window or door of a building under fire, the temperature of the window/door may be felt by cautiously touching. If the temperature is felt, the window/door should not be opened without arranging "Water Spray" protection in addition to full PPE.
- i) If a fire involves electrical or electronic items, before applying water over it, verify whether power was switched off. In case of any uncertainty consult BM /Shift In charge.
- j) The detailed roles and responsibilities of key personnel, emergency response team, and groups are covered earlier in this document and shall be followed based on the situation.)

5.1.4 POST-FIRE FIGHTING PROCEDURES

- a) On complete extinguishment of fire, thorough inspection must be done to find out any "Pockets of Fire" in any hidden area / under / beneath the debris and that must be quenched.
- b) As much as possible 'evidence of fires' must be preserved and avoid any attempt that may make dislocation/disappearance of evidence.
- c) The Fire Scene should be barricaded till firefighting and fire investigation activities are completed.

d) Used fire equipment must be put under maintenance and ready for further use.

If any equipment cannot be put into immediate use, alternative replacement should be arranged.

a) Necessary documentation to be made available for future reference.

b) Before allowing re-entry, necessary damage inspection procedures are to be followed.

c) The occupants shall only be allowed to re-enter the building upon confirmation/all-clear message by the building team/ govt agency in case of major fire.



5.2 BOMB THREAT

Scope

The scope of this Emergency Response Plan is to address the bomb threat scenario at Downtown, Chennai using local resources (Men, equipment, defined processes) without endangering the safety of human life.

Bomb Threat

The majority of threats are called targets. They may call through a third party. It could be through writing or by recording. Two logical explanations for reporting a bomb threat are:

1. The caller has a definite knowledge of the place where he intends to or has planted the device.
2. The caller wants to create panic which will result in disruption of normal activities.
3. Through the security staff.

Approach to a Bomb Threat

There are three alternatives when faced with a bomb threat: -

- Ignore
- Evacuate
- Search & evacuate if warranted.

Ignoring the threat completely can result in some problems. If employees learn that a bomb threat has been received and ignored, then it may have morale issues and a long-term business effect. Ignoring may force the caller to go beyond and plant a bomb.

Evacuating every bomb threat is an alternative that on face value appears to be the preferred approach. However, the negative factors inherent should also be considered. The obvious result of immediate evacuation is the disruptive effect on the business. If the bomb threat caller knows that each time a call is made evacuation is done, the caller has achieved his intent to cause

business disruption. An employee knowing that the policy is to evacuate immediately may make a threatening call to get out of work.

Initiating a search after a threat is received and evacuating a building after a suspicious package or device is found is the most desired approach. It is certainly not as disruptive as immediate evacuation. If perchance a device is found, the evacuation can be done expeditiously.

Evacuation

Priority of evacuation will be as follows:

1. By floor level
2. Above and below the danger area of the floor
3. Search unit creation, volunteers to be solicited.
4. Search persons should have knowledge of the building's interiors.
5. Using area occupants to do the search and aid the search team.

Search Procedure

The Search will be normally done by the Govt. Authorities in coordination with Building Emergency Response Team.

The search would be done in the form of sweeps. Sweep 1 - All objects located below the hip level. Sweep 2 - All objects between hip & chin level. Sweep 3 - All objects above the chin level. Sweep 4 - Inside the false ceilings.

In conclusion, the following steps might be followed: -

- a. Divide the area and select a search target.
- b. Start from bottom and work upwards.
- c. Start back-to-back and work towards each other.
- d. Go around the walls and proceed towards the centre of the room.

Media Interaction:

Designated person will interact with media; others should refrain from divulging any information.

ACTIONS TO BE TAKEN ON RECEIPT OF A BOMB THREAT CALL

The call receiver shall act as follows.

1. Treat the matter seriously but do not panic.
2. Switch on any available tape recorder to record the message. If possible, tie someone else to extend the conversation if possible.
3. Let the caller finish the message without interruption.
4. Record the exact wording of the threat.
5. If the caller is prepared to carry on the conversation, encourage them to do so and obtain as much of the following information as possible:
 - a. Where is the bomb right now? -
 - b. When is it going to explode? -
 - c. What does it look like? -
 - d. What kind of bomb is it? -
 - e. What will cause it to explode? -
 - f. Did you place the bomb? -
 - g. Why? -
 - h. What is your name? -
 - i. What is your address? -
 - j. What is your telephone number? -
6. Record the time the call was completed.
7. **KEEP THE TELEPHONE LINE OPEN (EVEN THOUGH THE CALLER HAS DISENGAGED)**
8. Where automatic number reveal equipment is available record the number shown:
9. If the call is received by the Tenant, the same shall be informed to the Building Team. The team subsequently shall act as follows.
10. Contact the Police by using the emergency telephone number - 100.
11. Time informed:
12. Inform VP- Operations (non-technical), AVP – Operations (technical), Head Security and Head Fire Safety.
13. Further Information – If any.
14. **ABOUT THE CALL**
 - a. Time and date of call: _____
 - b. Length of call: _____
 - c. Number at which call is received (that is, your extension number)

ABOUT THE CALLER

Sex of caller? Male / Female: _____

Nationality? _____ Age? _____

THREAT LANGUAGE

Well-spoken: _____ irrational: _____ Tape Voice: _____

Incoherent: _____ Foul: _____

Message read by threat maker: _____

CALLER'S VOICE



Calm.....	Crying	Clearing throat.....
Angry.....	Nasal	Slurred
Excited.....	Stutter.....	Disguised
Slow.....	Lisp.....	Accent
Rapid.....	Deep.....	Familiar
Laughter	Hoarse	High Pitched

If the voice sounded familiar, who did it sound like? _____

What accent? _____

BACKGROUND SOUND _____

Street Noises	House Noises	Animal Noises	Crockery
Motor.....	Clear	Voices.....	Static..... PA System
Booth			Office
Others	Music	Factory Machinery	Machinery

Signature:	Date.....	Remarks
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EMERGENCY RESPONSE TEAMS

The following teams would be mobilized in case of a Bomb Threat:

Command Control Centre: -

- a) Command Control Centre: - Located at DLF Downtown, Chennai, Tower A.
- b) Alternate Control Room: - The Security Control Room at DLF Downtown, Chennai will function as the alternate Control Room. Central Command Centre will act as the Pivot point of all communications/instructions to different teams (Team Leaders). This control room will be manned as under: -

a) During Working Days (General Shift Timings): -

Group CRM & Head Security.

b) During other timings & Holidays: -

Duty Security Officer & Shift Engineer till senior level officer arrives in
All instructions pertaining to evacuation (Full/Partial), search, call off threat (resilience) during the emergency will be given by Command Control Centre only. All teams (Team leaders) will maintain two-way communications with the Command Control Centre.

Emergency Response Team – This Team would be the first reaction team, which will be activated immediately upon receipt of information of a potential threat at the site of incident. It will be led by the Building Fire & Safety Officer.

Cordon-Off Team – This team would be activated immediately after confirmation of the Bomb by the Emergency Response Team.

This team will be led by on Duty Security Officer.

The team will consist of: -

This team will be equipped with all cordoning equipment (Barricading tapes, cones, rope, etc.) and shall be responsible for isolating the affected area and restricting personnel movement into the affected building. Upon confirmation, Cordon team members will reach the incident building entrance and ensure complete isolation of the incident area by barricading the area with cones and caution tapes to restrict any unwanted movement of personnel/vehicles inside/out of the incident area. Simultaneously Command Control Centre will be informed of the same.

Traffic Management Team – This team will be led by the Security Supervisor. This team will also be activated simultaneously along with the Cordoning team to restrict all incoming vehicular traffic at the gates to enter the premises.

Search Team – This team will be led by the Duty Security Officer along with the team as mentioned in the ERT list Annexure. This team will assist the Govt. Authorities along with all search equipment (Thermal Imager and Bomb Blanket) to search for any suspicious object and to isolate the affected area.

Evacuation Team – This team would be led by

a) During Working Days (General Shift Timings) - Building Manager

b) During other timings & Holidays - Shift Engineer

This team will move to the floor along with all evacuation equipment's (Stretchers, Emergency Lights, and Masks etc.) to evacuate employees safely to the assembly area through escape route.

Assembly Area Management Team - This team would be led by: -

a) During Working Days (General Shift Timings): -Ø Respective Building CRM.

b) During other timings & Holidays:
-Ø Shift Officer

The Team will consist of: -

- a) Security Team
- b) House-keeping Team
- c) First Aid Team

The location of Assembly areas is already earmarked in the building. This team will be responsible for proper assembly of evacuated employees at Safe Assembly Point and to report the total headcount (or deficiency) to the Command Control Centre.

First Aid Team. This team will be placed along with the assembly area so that necessary medical assistance can easily be provided to the injured evacuated personnel. Ambulances and lifesaving equipment will be a part of these team resources.

ACTION PLAN

1. The Central Command Centre will simultaneously inform Local Police, Bomb Disposal Squad, and in-house QRT teams, which are placed at various strategic locations at DLF Cybercity, Gurugram to attend to any emergency with a response time of 3 minutes.
2. Two-way communication between each search team leader and Central Command Centre to be always up to update the findings and status of the search.
3. In case any suspicious object is found, the Search team leader will immediately notify the Central Command Centre about the type and location of the bomb and tag the bomb location with the 'RED' flag. The search team will try to isolate and barricade the area near the object by barricading tapes/sandbags.
4. Search teams will continue to look out for any other bomb inside the premises until the entire area is searched completely for any suspicious object.
5. Central Command Centre will immediately inform the Cordon Team Leader to put all the lifts in Firemen Switch / Manual mode. Cordon Team Leader will confirm back to Central Command Centre once all lifts are kept in manual mode - as if required by Govt. Authorities.
6. On arrival of the Bomb Disposal Squad / Local Police, they will be guided to the concerned Building manager by the Traffic Management Team and there-after by the Building Manager to the incident area to take over further search and bomb disposal process.

Evacuation

On confirmation of unidentified object(s) by the Search Team to the control room, a call for evacuation will be decided by Govt. Authorities. Accordingly, the Central Command Centre will initiate evacuation (Partial/ Full).

Full Evacuation: As per the assessment of the situation, the Central Command Centre may activate Full evacuation of the building, wherein the entire building will be evacuated to the assembly area.

Partial Evacuation: In partial evacuation, affected floor, floor above and floor below will be evacuated only to the assembly area.

An evacuation message will be broadcasted in the common area and building premises through PA system for immediate evacuation to the Assembly Area with the evacuation order.

Evacuation Team members will be positioned at each Entry/Exit point, Lifts and along the escape route to assist employees to evacuate safely to the assembly area.

Evacuation team members / Emergency Wardens would direct all employees to take the escape route for quick and timely evacuation. Priority of evacuation would be:

- Senior Citizens
- Expected Mothers
- Especially abled Employees
- Injured Employees

POST EVENT MEETING

Post event meeting will be conducted immediately after the normalcy is resumed between Local Police, Head Security and Management Representatives to get the details about the Bomb Threat call for further investigation.

Details required by the Police will be shared by designated DLF Representative.



5.4 EARTHQUAKE

THE IMPACT:

The shaking can cause buildings and bridges to collapse; disrupt gas, electric, and phone service; and sometimes trigger landslides, avalanches, flash floods, fires, and huge, destructive ocean waves (tsunamis). Most earthquake-related injuries result from collapsing walls, flying glass, and falling objects because of the ground shaking, or people trying to move more than a few feet during the shaking. Much of the damage in earthquakes is predictable and preventable if the preparedness is well established and people know about safety procedures which will help them to be safe during an earthquake.

SCOPE:

Emergency Preparedness Guides are based on presently available information, as well as current occupational safety and health provisions of National and International practices. The procedures and practices discussed in Emergency Preparedness Guides may need to be modified when additional, relevant information becomes available or when standards are promulgated or modified by the authorities concerned.

EMERGENCY PROCEDURES:

The safe procedures and practices could be followed in two parts. The first part covers procedures to be followed by the occupants in the three stages, before, during and after, of earthquake. The second part covers procedures to be followed by the ERT Members while responding to an incident.

GENERAL GUIDELINES: -

BEFORE THE EARTHQUAKE

1. Identify safe places in your work area, where you can do **'Drop, Cover and Hold On.'** It is better to take shelter near strong structures such as a table/desk / rigid object where one can comparatively take safe shelter.
2. Know at least two ways to exit the building safely after an earthquake.
4. Tall objects like file cabinets, almirah, etc. may be anchored suitably to prevent them from falling causing injuries to the occupants.
5. Heavy objects may be stored on low level and breakable objects can be stored in cabinets with latches.
6. Identify an alternate safe assembly area, as the primary safe assembly area, may not be in a usable condition.

DURING THE EARTHQUAKE:

a. IF INDOORS

1. When earthquake tremors/shaking start, **DROP** to the ground; take **COVER** by getting under a sturdy table or desk; and **HOLD ON** to the table/desk firmly until the shaking stops.
2. If there is no table or desk near you, cover your neck and head with your arms and crouch in an inside corner of the building.
3. Stay away from glass, windows, shelves, outside doors, and anything that could fall, such as light fixtures, furniture, etc.
4. During an earthquake do not run outside, do not panic, and stay calm even if you witness falling objects, shattering glass, loss of electricity, or actuation of fire sprinkler, etc.
5. Do not use elevators.
6. If you are in a wheelchair, lock the wheels and cover your head.

As per NDMA guidelines stay inside, as you are in a structurally sound building. Research has shown that most injuries occur when people inside buildings attempt to move to a different location inside the building or try to leave.

b. IF OUTDOORS

1. Do not move from where you are. However, move away from buildings, glass façade, trees, streetlights, and utility wires.
2. If you are in an open space, stay there until the shaking stops. The potential danger exists directly outside buildings; at exits; and alongside exterior walls. Most earthquake-related casualties result from collapsing walls, flying glass, and falling objects.

c. IF IN A MOVING VEHICLE

1. When driving a vehicle, pull to the side of the road and stop. Avoid stopping near or under buildings, trees, overpasses, and utility wires.
2. Proceed cautiously once the earthquake has stopped. Avoid roads, bridges, or ramps that might have been damaged by the earthquake.

AFTER THE EARTHQUAKE:

1. Check yourself and others for injuries to get first aid.
2. Do not move seriously injured persons unless they are in immediate danger.
3. As per NDNA guidelines evacuation is not needed for structurally sound buildings, however due to psychological reasons if any one wish to evacuate, do it in an orderly manner.
4. Go to your designated assembly area unless you are directed to alternate assembly area.
5. Do not stay besides buildings, under power lines / bridges / tall structures and in basements which may collapse due to aftershocks.
6. Check around you for dangerous conditions such as fire, gas smell, water leak or flow, broken power line or any structure in a falling condition and notify the same to the building authorities.
7. Check your telephones lines are in live condition.
8. Be aware and expect that aftershocks or tremors may come again and you may have to face powerless, waterless, and dark situation.
9. Before using any electrical equipment/ power /water / gas connection a check to be made to avoid secondary hazard.
10. In case if you are trapped in debris, try to move a little as possible and try to tap on a pipe or wall so that rescuers can hear where you are.

11. Do not move, if your movement will cause further fall of debris. So, call for help with loud noise as much as possible but with caution for hearing.

भूकंप के दौरान क्या किया जाए? What to do DURING an earthquake?

झुकी [Drop]

ढकी [Cover]

पकड़ी [Hold]

भूकंप के दौरान फर्श पर लेट जाएं, किसी मजबूत डेस्क या मेज के नीचे छिप जाएं, और उसे पकड़ लें ताकि वह फिसलकर आपसे दूर नहीं जाए। कंपन के बंद हो जाने तक प्रतीक्षा करें।

During earthquakes, drop to the floor; take cover under a sturdy desk or table, and hold on to it so that it doesn't move away from you. Wait there until the shaking stops.

अगर संरचना की दृष्टि से मजबूत इमारत में हैं तो वहीं बने रहें।
If you are in a structurally sound building, stay there.

अगर आप किसी पुराने कमजोर भवन में हैं तो सर्वाधिक तीव्र एवं सुरक्षित रास्ता से बाहर निकलें।
If you are inside an old weak structure, take the fastest and safest way out.

लिफ्ट/एलिवेटर प्रयोग नहीं करें।
Do not use elevators.

कंपन के बाद, खुले स्थान तक पहुंचने के लिए सीढ़ी इस्तेमाल करें।
After the shaking stops, take the staircase to reach open space.

यदि आप विकास द्वार के नजदीक नहीं हैं या आप किसी ऊंची इमारत में/ऊपरी मंजिल पर मौजूद हैं तो वहीं बने रहें। हड़बड़ाएं नहीं; शांति रखें और आवश्यक कार्रवाई करें।
If you are **not near an exit** or, you are situated in **high-rise building/ upstairs** stay inside. **Do not panic**; stay calm and take necessary action.

यदि आप किसी विकास द्वार के नजदीक हैं तो यथासंभव शीघ्र इमारत से बाहर निकल जाएं। विकास द्वार के लिए धक्कापुक्की नहीं करें। सुव्यस्थित तरीके से शांतिपूर्वक बाहर निकलें।
If you are **near an exit**, leave the building as soon as possible. **Do not rush** to the exit point. Get out calmly in an orderly manner.

विजली की लाइनों, खंभों, खंभारों, फाल्स सीलिंग, गुंडेर, गिरने वाले बत्तनों/गमलों तथा गिरने या ढहने की संभावना रखने वाले अन्य वस्तुओं से दूर हो जाएं।
Move away from power lines, posts, walls, false ceiling, parapet, falling flower pots and other elements that may fall or collapse.

कांचफलक वाली इमारतों से दूर हो जाएं।
Stay away from buildings with glass panes.

अगर आप पहाड़ी की खड़ी ढलान पर हैं तो भूस्खलन होने एवं गड़दों गिरने के स्थान से दूर हो जाएं।
If you are on a steep hillside, move away in case of landslides and falling rocks.

वाहन चलाने समय सड़क की बगल में हो जाएं और रुक जाएं।
When driving a vehicle pull to the side of the road and stop.

शक्तिग्रस्त हो गए पुलों/पल्लाईओवरों को पार करने की कोशिश नहीं करें।
Do not attempt to cross bridges/flyovers, which may have been damaged.

Source : Earthquake Preparedness Guide, National Disaster Management Authority, Government of India

ROLE OF EMERGENCY RESPONDERS:

The building emergency teams must undertake multi-faceted role to render all possible help and services to the occupants with all possible safety precautions. On the arrival of Government Authorities, the building team should do necessary assistance in the interest of safety.

A. COMMUNICATION:

1. In case of earthquake (after shaking stops), ECC may be set up in consultation with GCRM / CRM & action to be taken as mentioned below.
2. ECC should act as a platform to coordinate communication between various ERT Members to extend effective coordination and control mechanism till the event is over.
3. Connect with Metrological Department to get updated information for further communication.

4. Liaison with other Govt. agencies such as Fire Services and Police Departments etc. for requesting further assistance and reports.
5. In the times of failure of normal communications such as telephones, mobiles and sometimes walkie-talkie, alternate communication systems to be arranged such as, megaphones, Vehicle mounted PA system and at the last Manual Messengers etc.
6. In a major disaster, an Information Centre should be arranged which will be headed by VP Operations to cater the need of meeting communication among occupants, families, and external agencies (like media, Govt. Authorities) without affecting the emergency communication requirements.

B. SECURITY, TRAFFIC & MEDICAL AIDS:

1. Exit and Entry control over four wheelers and two wheelers at the main gate to be regulated / stopped as per the requirements.
2. Exit and Entry to basement ramp also to be restricted / stopped as if required.
3. Vigilant security measures are to be enforced to avoid traffic jam preventing entry to emergency vehicles to the incident place.
4. In case normal route cannot be used for blocking by debris / fallen trees, try to remove those items, if possible, to keep the road ready for the use. If not possible please request assistance through ECC.
5. If a normal route cannot be used, plan for an alternate route for the use of emergency vehicles and Ambulance.
6. Measures to ensure unauthorized persons entry and not allowing unauthorized exit of materials.
7. A team should be kept ready to bring in the Govt. authorities and proper return.
8. Arrange proper assistance to give first aid, drinking water arrangement, would be mothers care at assembly area, medical assistance to the injured etc.
9. Control over entry of visitors, contractors and vendors and their availability with reference to the entry / pass documents.
10. Providing and monitoring cordoning areas of rescue activities, assembly, escape routes and temporary opening / closing of emergency paths.
11. Advantage of CCTV can be used, if it is in working condition, to understand the status of evacuation and requirement of further help from ERT through ECC.
12. If a car is found in damaged condition in basement areas and fuel is in leaking condition, that should be cordoned off and information to be sent Fire team for doing further mitigation measure. The CCTV Control Room can help in this record in addition to manual inspection.

C. BUILDING SERVICES:

1. A Technical Team should be ready to cut off and to resume power and A/C Services to the Tenant Areas to ensure safe use such services. Cutting off power, A/C, water, gas supply to be carried out to avoid / prevent secondary hazards. While cutting power supply, the team should ensure that emergency lights are on for safe evacuation.

2. Fire Pump Operator Team (Plumber and Electrician) should be ready to stop and start pump operation as per the requirement.
3. In case of water leakage / flow due to pipe break plumbing and housekeeping team should be ready to attend to arrest water flow and cleaning.
4. In case of total power failure, portable power generators with flood lights may be arranged for the purpose of evacuation as well as rescue operation.
5. In case of secondary hazards such as fire, broken live electrical wires, necessary mitigation measures are to be done to prevent further threat.
6. In case of fire line water damage at basements, causing water stagnation, pumping out arrangements is to be arranged either using internal resources or from outside resources.
7. Team can inspect firefighting water and diesel storage tanks' physical condition and availability of water and diesel for further use.
8. Before resuming the services of power, A/C, water supply (both domestic and fire line) and gas supply, a thorough 'pre-check' is to be done. After charging 'after check' should be done to ensure safe operation.



5.5 FLOOD

DLF Downtown , Chennai caters to all essential services like Electricity, AHU, HVAC, Potable water etc. on its own, through building management services and all these services run from the building basements. The Building basements house all essential service rooms, like Plant Room, Pump Room, Panels, etc.

The potential for flooding, which can cause damage to these essential services are very high since they are in basements. Therefore, it is essential to have an emergency plan to respond to Flood conditions

A comprehensive plan reduces the threat from emergencies through prevention, early detection, notification, effective evacuation or relocation measures, control and mitigation, and recovery operations.

Scope of this Emergency Response Plan is to address flooding scenario at DLF Downtown , Chennai using local resources (Men, equipment, defined processes) without endangering the safety of human life.

Action Plan for handling Flood situation:

On receiving information regarding flood situation, Shift In-charge will immediately activate the Emergency response team members to various essential service rooms.

Plant Room (which houses most of the essential services like)

- DG Sets
- Electrical Panels
- Chiller Machines
- Under Ground Water Tanks etc.
- UPS/Inverter Room

- Transformer room (Basement-1)

Emergency Response team will deploy diesel operated dewatering pumps to extract water out of the basements to avoid any water logging inside basement.

In case of heavy rains and major flood situation, where extracting rate is less than the water logging rate, decision regarding shutting down essential service in view of the personnel, equipment safety will be taken by Shift In - charge in consultation with Building Manager.

Emergency Response team will be immediately activated and all essential supplies. (Electricity, Water Pumps, Chiller etc.) will be shut down to avoid damage.

Store officer along with stores team will ensure that all store material is placed at safe height to avoid damage from flood water.

Emergency Response Team will ensure that all hazardous material like Lube oil is Shifted from basement to upper floor to avoid damage.

Cordon Off

Upon receipt of instructions from Control Room, on Duty Security Officer will gather his team consisting of guards from basement parking.

Security Supervisor along with his team will ensure that all Fire Entry/exits, ramp entries are cordoned by barricading the area with cones and caution tapes to restrict any unwanted movement of personnel and vehicle.

Upon cordon off, Duty Security Officer will inform Control room about the barricading done status.

Traffic Management

On Duty Security Supervisor along with his team consisting of guards from Gate and in/Out ramp will stop all vehicular entry to building through Main Gate. All vehicles which are inside building premises, will be exited immediately from Main Gate.

Main Gate of Building will be partially closed, and a signage will be put 'ENTRY RESTRICTED'. Only Emergency vehicles will be allowed to enter. Upon Controlling the vehicular entry completely, will confirm to Control Room.

Search & Evacuation

Control Room will activate Search and Evacuation team, First Aid Team simultaneously.

On receiving instruction from control room that all essential services have been shut down, Search and evacuation team will be sent to the basements to search for any services running which needs to be shut down.

Search and evacuation team will also ensure that there are no personnel (Worker, employee) trapped inside the basement. Search and evacuation will safely evacuate the persons to the basement and simultaneously inform control room so the necessary medical assistance can immediately be given to the evacuee at First Aid Point (Ground Floor)

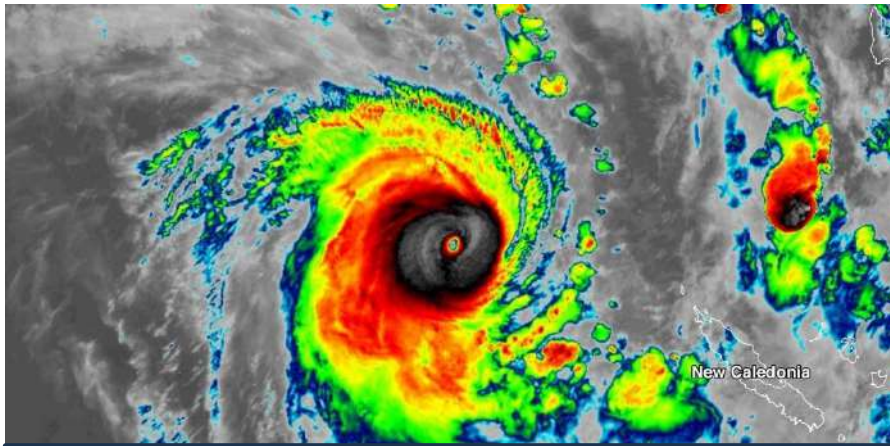
Search and evacuation team will ensure that all basements are searched for any services running which should be shut down and any trapped person. Search and evacuation team leader will inform control room once the Search and evacuation is complete.

First Aid Point (FAP)

Designated First Aid Point will be earmarked at Atrium. FAP will be equipped with all necessary medical equipment and first aid tools to handle any emergency / First Aid Case. Control Room will coordinate with local hospitals also under Mutual Aid in case there is a requirement to move injured / casualties. All the injured evacuated by evacuation team will be brought to First Aid Point for necessary medical assistance.

Salvage Team

Once the flood situation is normalized, water extracted from basements completely and resiliency is declared by the GM - Operations, this team will be activated immediately by control room to revive the operations/ services and bring back the service level including housekeeping back to normal



WIND STORM

5.6 WINDSTORM

Windstorm, a wind that is strong enough to cause damage to trees and buildings and may or may not be accompanied by precipitation. Wind speeds during a windstorm typically exceed 65 km per hour. Wind damage can be attributed to gusts (short bursts of high-speed winds) or longer periods of stronger sustained winds.

Storms are created when a center of low pressure develops with the system of high pressure surrounding it. This combination of opposing forces can create winds and result in the formation of storm clouds.

THE IMPACT:

Windstorm are characterized by their destructive potential to damage structures such as houses, lifeline infrastructure such as power and communication towers, buildings, hospitals, roads, bridges, culverts, crops, etc., due to high velocity winds.

A. EMERGENCY PROCEDURES:

Prior to the windstorm:

- a. Storm water drain points to be kept clear of any obstacles.
- b. Storm water sluice valves & electrical pumps operational status to be confirmed
- c. Emergency storm water dewatering pumps operational status to be confirmed.
- d. Announcements to the occupants to be made through building PA system and other modes of communication available.
- e. All loose hanging material to be removed / latched in terrace, surface, and refuge areas.

- f. All cradles suspended from terrace needs to be parked at the ground level.
- g. As wind storms many times comes with heavy rains, sandbags for containment to be made ready and stacked at vulnerable areas of flood water entry into the premises and building basements.
- h. To watch out for updates on windstorm on media channels/ forecast.
- i. First aid and ambulance teams to be activated and put on high alert.
- j. ERT to be briefed for their preparedness and action plan.
- k. Medical treatment kits to be made ready in adequate numbers.
- m. Emergency contact numbers to be kept in handy for any external aid / assistance.

During the Windstorm:

- a. While staying indoors, stay away from the glass façade glass doors.
- b. Pay attention to the weather forecasts and warnings.
- c. In case of heavy winds, glass doors should be locked and stay away from doors.
- d. If you are in a car, stop the car away from trees or power lines that might fall on you. Avoid the base of steep or unstable slopes and low areas prone to rainwater flooding. Stay inside the car.
- e. If you are trying to evacuate from the floor, do not use the elevator as the power might be disrupted.
- f. Power supply, Gas supply and water supply may be disrupted depending on the situation.
- g. In the event of basement flooding due to heavy rainwater ingress, vehicle entry into the basements to be restricted.

Post Windstorm:

- a. Listen to the official announcements (if any) and warnings before venturing out.
- b. Do not go outside until it is safe. If you need to go outside, be careful of fallen power lines and trees, broken sewerage and water lines, loose roof sheeting and other material.
- c. Beware of fallen power lines, damaged buildings and trees, and flooded water courses.
- d. Do not ignore warnings and do not go sightseeing.
- e. Keep children away from flood water.
- f. Look out for visible damages if any in the structure, fixtures, etc.,
- g. Take pictures / videos of any property damage.
- h. Communicate to relevant authorities internal / external on the status of the disruption / damage to the property.
- i. Clean up the affected areas and make repairs.
- j. Restore building services / equipment.
- k. Replenish the emergency kit whichever has been utilized during the windstorm at the first instance.

B. COMMUNICATION:

- a) Upon receiving the windstorm warning from the various media, alert message must be given to the ERT team through walkie – talkie or phone call.
- b) Site emergency control centre must be set up at a reasonable safe location and all emergency teams are to be called for assembling at emergency control centre and assigning of task as per the plan and need.
- c) Site emergency control Centre should act as a platform to effect communication between various ERT Members to extend effective coordination and control mechanism till the event is over.
- d) Connect with Metrological Department to get updated information for further communication.
- e) Liaison with other Govt. agencies such as Fire Services and Police Departments etc. for requesting further assistance and reports.
- f) In the times of failure of normal communications such as telephones, mobiles, and sometimes walk-talky, alternate communication systems to be arranged such as megaphone (battery operated), Vehicle mounted PA system etc.
- g) Planned dedicated communication team will be more desirable in such situations / conditions to carry out that tasks listed above and anymore.
- h) In a major disaster, an Information Center should be arranged headed by a senior level to cater the need of meeting communication among occupants, families, and external agencies(like media, Govt. Authorities) without affecting the emergency communication requirements.

C. ROLE OF EMERGENCY RESPONSE TEAM:

The emergency response team consists of personnel as per site emergency plan which includes various teams.

Each team has been trained to perform specific task of emergency action depending upon the scenario. They render all possible help and services to the occupants with all possible safety precautions. In case of any major damage, on the arrival of Government Authorities, the building team would coordinate with them and assist the authorities.

1. ENGINEERING TEAM:

- a. Engineering team should thoroughly inspect the building and look out for all loose materials at the surface, terrace, and refuge areas. Along with housekeeping team, these materials shall be latched and secured properly.
- b. Plumbers should ensure that all storm water drain points are clear of any debris and all catch basins are clear.
- c. Technicians to ensure that the storm water sluice valves and Storm water dewatering pumps are operational.
- d. Technicians to test run the emergency diesel driven dewatering pumps along with the engineers and confirm their operational status.

- e. Housekeeping team along with engineers to bring down the cherry picker cradles to ground level and secure them.
- f. Housekeeping team to make sandbags in adequate quantity and stack them near vulnerable areas.
- g. Building Manager to ensure that adequate essential resources viz, Diesel are available and stacked.
- h. Engineers to cut off the power supply, gas supply and water supply if a need be.
- i. Engineering Team to ensure that emergency lights are operational in the event of a power disruption.
- j. In case of total power failure, portable power generators with flood lights may be arranged for the purpose of evacuation as well as rescue operation.
- k. Before resuming the services of power, A/C, water supply (both domestic and fire line) and gas supply, a thorough 'pre-check' is to be done. After charging 'after check' should be done to ensure safe operation.

2. FIRST AID & AMBULANCE TEAM:

- a. First aid and ambulance team to be activated and put on high alert.
- b. First aid team to make ready emergency medical treatment kits containing all essential medicine in adequate numbers.
- c. Ambulance team to ensure readiness of ambulance with resuscitator, ventilator, and other first aid equipment's fully functional.

3. EVACUATION:

It is advisable to stay indoors in the event of a windstorm. However, for any other reasons if there is a need to do an evacuation, or evacuation is ordered, the following procedure to be followed:

- a. The Evacuation Team should support orderly and safe evacuation of all occupants.
- b. During windstorm, the demarcated assembly area may or may not be suitable for assembly. If it is not suitable, an alternate assembly area must be identified and occupants need to be guided accordingly by the teams. In case of any fire or other disaster in one area, the other area may be used for temporary assembly area.
- c. The team should provide necessary support to evacuees, by giving special aids, in terms of age, gender, non-ambulant, differently able, wheel user, would be mothers etc.
- d. The evacuation team should monitor, and liaise with tenant fire warden for ensuring total evacuation and to find out any missing persons
- e. The Evacuation team should make special efforts to search out for any trapped person in places like basements, confined / remote places. Provide support for evacuation/rescue of such persons if anyone found.
- f. The Team should support and monitor that all occupants assembled at their respective assembly area
- g. The Team should not allow any occupants to re-enter into the building

- h. The Team should ensure that assembly area and the en-route to assembly area should be safe and cordoned.
- i. The team should watch out whether necessary messages / communications are reaching to those who are in the assembly area. If the message or announcements are not reaching effectively, then supportive actions should be taken such as repeating the message and making any suitable corrective actions.
- j. The Evacuation Team should develop proper coordination and ground level interaction with tenant fire warden with help of CRM and BM of the respective buildings to ensure ground level evacuation discipline and to mitigate any problem in assembling area.

4. SECURITY & TRAFFIC:

- a. Exit and Entry control over four wheelers and two wheelers at the main gate to regulated / stopped as per the requirements
- b. Exit and Entry to basement ramp also to be restricted / stopped depending upon the situation.
- c. In case normal route cannot be used due to blockage by debris / fallen trees, try to remove those items, if possible, to keep the road ready for the use.
- d. If a normal route cannot be used, plan for an alternate route for the use of emergency vehicles and Ambulance.
- e. Measures to ensure unauthorized persons entry and not allowing unauthorized exit of materials.
- f. A team should be kept ready to guide if any govt. authorities visit the site.
- g. Control over entry of visitors, contractors and vendors and their availability with reference to the entry / pass documents.
- h. Providing and monitoring cordoning areas of rescue activities, assembly, escape routes and temporary opening / closing of emergency paths.
 - i. Advantage of CCTV can be used, if it is in working condition, to understand the status of evacuation and requirement of further help from ERT.



5.7 CIVIL UNREST

INTRODUCTION:

‘Civil disturbance/ Civil unrest’ means acts of violence and Unrest prejudicial to the public law and order caused by a group of people. Incidents like Insurrection, Riots, Strikes, Unlawful obstructions/ assemblages, Protest socio-political problems, Traffic blockage and Civil disobedience can be classified as Civil Disturbance.

OBJECTIVE:

Objective is to establish a procedure to react to a civil /riot in the vicinity of the property and to protect company assets, property, people (Including Tenant employees) and brand value.

SCOPE:

Scope of this document is DLF Commercial office buildings. The procedure should be simple, clear, safe, and easy to follow. It should enable continuous training of all the concerned person.

RESPONSIBILITY:

The responsibility lies with Security Division assisted by operation team. Law enforcement agencies have a primary responsibility to control and prevent increased levels of unrest.

PROCEDURE:

The shift supervisor, upon noticing the size and agitation of the crowd, should take the following action:

- Immediately notify the Head Security/ Operation- Head
- Direct security staff to close all non-essential entrances to the facility and concentrate additional security personnel at the main entrance.

- **Security Deployment:** Additional security shall be deployed in all building premises at following strategic locations (**Main Gates/Ingress/Egress Points, Periphery, Basement, Outside Building, Traffic Control, HT /LT Panel, Gas Installation and HSD yard**)
- Plain clothed security to be deployed amongst the mob/ riot area to gather real time information.
- Dispatch two security officers to the respective area to watch the crowd and report their activities to the Security Head.
- **Equipment's:** Following equipment's shall be utilized during such emergency by various team members of Security / Fire / Operation Team (**Radio Sets, Barriers, Physical Locks, Fire Hydrant/ Hose, CCTV**).
- **Other critical Resources** (Guard Dogs, Jersey barriers, Heavy duty Chains & Locks, Portable/ cordless announcement system)
- **Emergency Response:** Broadcasted from Security Control room for all tenant employees, visitors to remain inside the building premises till normalcy is declared by the law enforcement. Emergency response of Building shall be limited to protection of company assets, employees, and tenant employees only. Law enforcement agencies will lead the primary role in restricting the protesters.
- **Head Security – FM** to notify building occupants of the situation outside and recommend they remain within the facility until the situation is under control.
- **External Communication:** Shall be given by VP- Operations to Media/Tenants. No information, updates to be shared by any DLF member to anybody.

Note: In case of a civil disturbance due to the internal matter of Tenant with the protesting group, matter will be intimated to the Tenant for initiating necessary action.



5.8 MAJOR POWER FAILURE

Any one of the emergencies described previously can cause major electrical power failure. Backup generators and adequate fuel supplies may be helpful in maintaining essential building services (e.g. lighting, heating). The building is equipped with an emergency power generator; however, such equipment is required to be tested and maintained in accordance with the National Building Code.

- To guide the building occupants during power failure, the building emergency lights and exit signages have 90 minutes battery back-up.
- Pre-arrangements should be made to ensure additional fuel supplies available upon demand, in situations where the power failure is for an extended period. Building management and occupants need to be prepared in advance to cope with such situation where the power supply may not resume due to any unforeseen situation by having flashlights and emergency torch lights.
- When there is a potential for a power failure occurring simultaneously with the building evacuation, building occupants should avoid using the elevators to leave the building.
- To be on the safe side, the occupants should be advised to proceed to evacuate the building promptly using the primary and secondary exits which are normally be used to evacuate the building during a fire evacuation.
- It may be necessary to stage the evacuation to ensure that it is conducted in an orderly manner.
- If possible, try to evacuate the employees through safest exit.



5.9 GAS LEAKAGE

LPG is used in the building for cooking in kitchens of Restaurants and F&B. The gas leakage may occur due to any of the following reasons.

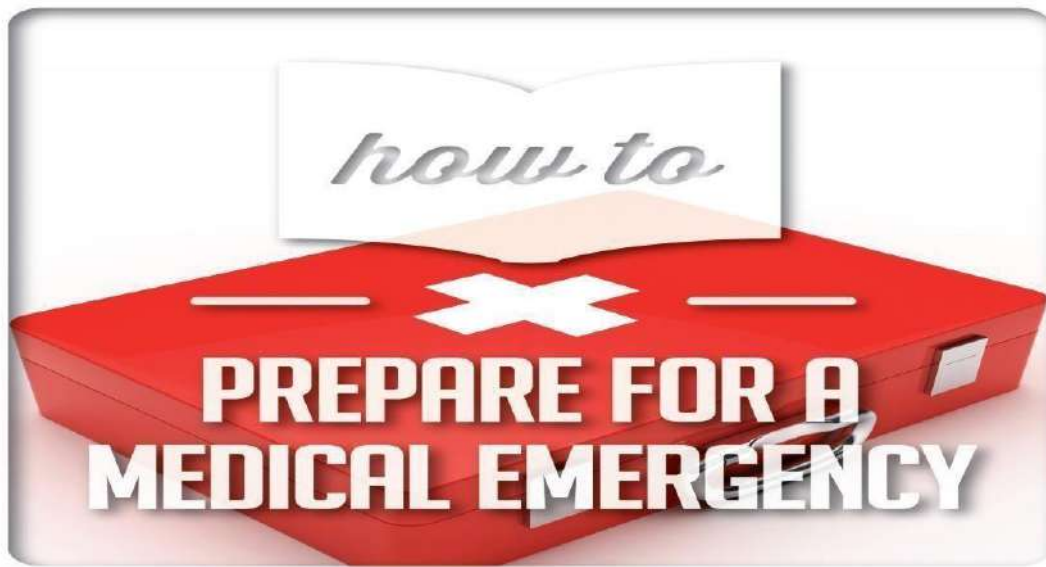
- Leakage from piping due to damage by external sources, sabotage, and pilferage.
- Failures caused by corrosion defects.
- Failures caused by miscellaneous factors such as pipe material defects.

However, safety controls measures have been put in place to deal with any gas leakage incident. The safety measures adopted at site are mentioned as below.

- LPG detectors are provided near valves, joints etc. to sense any gas leakage and alarm are also provided for alerting people. On detection of any gas leakage the gas supply valve will be automatically closed.
- Apart from the above the Fire Command Centre is provided with manual main valve closing switch and by operating the valve the gas supply to the building can be cut off from the source at LPG inlet line to the building.
- LPG is an odorless gas, but ethyl mercaptan is added as it provides easy detection by the users in case of a leakage.
- If there is a hissing sound near a pipeline, it may indicate leaking natural gas.

Actions to be taken in case of Gas Leakage :

- Evacuate the area, if unable to control the gas leakage.
- Actuate nearest fire alarm manual call point and /or inform FCC.
- Try to extinguish or contain fire with help of nearest available fire extinguisher, Hose reel / FHC , if you are trained to do so.
- Use Talk back to communicate the gas leakage to Fire Command Centre.
- The Fire Command Centre will inform to building FSO /FM & active the ERT.
- The Fire team will immediately respond to the incident upon receipt of fire alarm and after assessing the situation necessary action to be taken. Emergency plan should evoke as per site condition.
- Advice occupants not to smoke or use any electrical devices, including cell phones during gas leakage.
- Call Emergency Services from a phone located well away from the source of the leak.
- Call your gas company from a phone located well away from the source of the leak.
- Building management should retain a list or drawings that identify the location of all gas shut-off valves, not just the main shut-off valve locations.



5.10 MEDICAL EMERGENCY Purpose:

To establish an action plan for responding to a medical emergency and to ensure the proper procedures are followed in the event of a medical emergency within the building.

Medical Emergency Response Team:

1. Control room operator
2. Paramedic with Ambulance
3. On duty First aiders
4. Security Officer & Fire Officer
5. Other ERT members (If required)

Emergency Procedure:

Personnel not qualified or assigned to provide first aid assistance are expressly instructed not to provide any medical treatment. General assistance to the victim, when conscious, is permissible and advised. The medical emergency shall be assessed by responding personnel, who will evaluate the situation, and the course of action to be taken.

Examples of a Medical Emergency

- Unconsciousness
- Seizure
- Chest Pain and/or Heart Attack
- Stroke
- Food poisoning
- Choking
- Trouble Breathing
- Major Injury - Slip or Fall

- Drowning
- Quarantine and evacuation of COVID-19 patient from the building and drop him/her to COVID-19 Hospital covered.
- Rescue of electrocution in panel areas etc. (include resuscitation) are covered.
- Rescue from Height and Confined Space are covered in SOP.

Resources to Handle Medical Emergencies at site: -

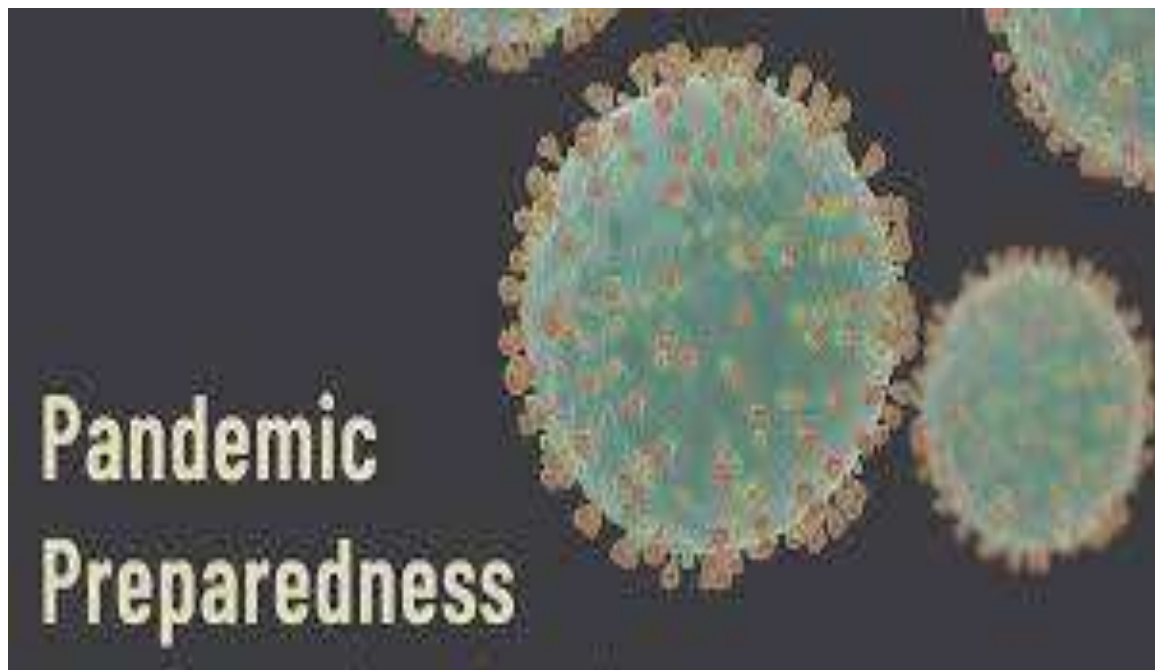
- Ambulance with all advanced equipment's
- Stretchers -
- Wheelchairs
- Staircase evacuation chairs
- Ambu bags
- First-aid boxes etc.

Action in case of Food Poisoning:

- i. Identify kitchen / source where from food was served.
- ii. Stop serving food from that kitchen immediately.
- iii. Preserve food for testing and investigation.
- iv. Ask staff who are not affected to go for medical check.
- v. Inform hospital to activate required resources.
- vi. Ambulance to be called and put in action.
- vii. If required, staff cars to be utilized to transport affected person to the hospital.
- viii. Helpline number should be set up, to submit and track all information and data.
- ix. Senior management to be kept informed.

Action in case of other Medical Emergencies listed above :

- i. Control room immediately inform the ambulance.
- ii. The information to be given to BM & CRM.
- iii. Only trained first aider will provide the first aid till the time ambulance comes.
- iv. Immediately send the affected person to hospital, if required.
- v. Duty Security officer will accompany.
- vi. In case of tenant employee, their admin manager shall also accompany the person to hospital.
- vii. In case of medical emergency in tenants' area follow the "Medical emergency Guidelines" issued by DLF.



5.11 Infectious Disease Pandemic threats

The purpose of this plan is to ensure the employees well-being and business continuity at DLF facilities during any pandemic situations by having structured mechanism in place to prevent, predict, identify, control, and mitigate the impact of pandemic outbreak.

Responsibilities

Building Manager has the overall responsibility for implementing this plan.

Each employee is responsible for reporting any symptoms of pandemic in colleagues, family members, contractors, visitors and to promptly report incidents such as dead birds and other suspicious situations immediately to the line management or site emergency response team.

World Health Organization (WHO) Pandemic Phases

The WHO Pandemic Phases indicate the general level of pandemic risk. The WHO has issued recommended actions that government, companies and other organizations should take during each Pandemic Phase.

RESPONSE PROCEDURE

INTERPANDEMIC PERIOD

Phase 1: No new influenza subtypes have been detected in humans. An influenza virus subtype that has caused human infection may be present in animals. The risk of human infection is low.

Phase 2: No new influenza virus subtypes have been detected in humans. However, a circulating animal influenza virus subtype poses a substantial risk of human disease.

PANDEMIC ALERT PERIOD

Phase 3: Human infection(s) with a new subtype are reported. There are no instances of human-to-human spread, or at most, rare instances of spread to a close contact.

Phase 4: Small cluster(s), meaning less than 25 people, lasting less than two weeks, with limited human to human transmission occur, but spread is still highly localized, suggesting that the virus is not well adapted to humans.

Phase 5: Larger cluster(s), meaning between 25-50 people, lasting from two to four weeks, appear. While human-to-human transmission is still localized, the virus appears to be increasingly better adapted to humans. Though it is not yet fully transmissible, there is a substantial pandemic risk.

PANDEMIC PERIOD

Phase 6: virus transmission increases significantly and there is sustained transmissibility in the general population.

Facilities

Purpose and Scope

This portion of this document provides pandemic-related guidance for initiating a site team, contingency planning, and communicating advisories.

All site employees shall be trained on pandemic preparation at least **annually**. Increased frequency of training may be exercised when required. The site pandemic plan shall be linked to site Emergency Response team and the ERT should get necessary communication related to pandemics. Site HSE coordinator is responsible for smooth information flow. All necessary information must be passed on to employees, contractors and visitors and necessary measures must be taken in-case people show the symptoms of pandemic influenza.

Site HSE coordinator has the responsibility of maintaining the Biosecurity kit inventory list updated and shall ensure the proper upkeep of the same.

The Personal kit has the following items (kit is designed to last for 2 weeks):

1. One-Digital thermometer (for temperature measure usually the first indicator of infection)
2. 30-3ply surgical masks (To wear and change daily to help minimize the spread of viruses)
3. 2-Pairs of nitrile gloves for preparing disinfectant solution.
4. 1- Travel Bag (for transporting thermometer and masks home or transporting masks and spray as needed)
5. 2-5gram sachets of Disinfectant (for disinfecting hard non-porous surfaces that may transmit viruses, chosen for its proven efficacy against influenza viruses)

6. Hand Dis-m Hand Sanitizer (for general hand hygiene when soap and water are not available which can kill 99.99% of germs)

7. 1-Instructions for use

Site managers should review all personnel polices to determine which policies may require some modification in the event of a Pandemic. Particular attention should be paid to the following policies:

- Assessing Fitness for Duty
- Employee Benefit treatment in Special Situations
- Employee Disability and Attendance
- Flexible Work Practices
- Health Care Guidelines for International Assignments
- Relocation Guidelines

Facilities Upkeep:

Effective cleaning and disinfecting are essential to preventing and controlling disease outbreaks. Implement necessary strategies and tactics to mitigate the spread of disease within site facilities to maintain health, hygiene, and well-being. Site HSE/ HR shall play an active role in maintaining the standards.

In case of a pandemic site may exercise the following options to prevent/control deacease outbreaks within site:

- Wall-mounted Disinfectant sprays
- Hands-free paper towel dispensers
- Hands-free urinal and toilet fixtures (retrofit)
- Cafeteria/Food Services: Ensure proper supplies and hygiene.

Managing Processes and Principles for Fever Patients in the Influenza Pandemic Period in DLF Facility

When the WHO pandemic alert level is Phase 4 the following process will be activated.

1. Procedure to be followed at security upon detection of people unwell. (Flow chart - A)
2. Daily monitoring by leaders or designates using the Pandemic Influenza Screening Tool (Checklist).
3. Employee to conduct self-monitoring of temperature using thermometer twice daily. Report abnormalities to site SHE or HR immediately.
4. Procedure to be followed upon Detection of Staff who are Unwell at work (Flow chart B)

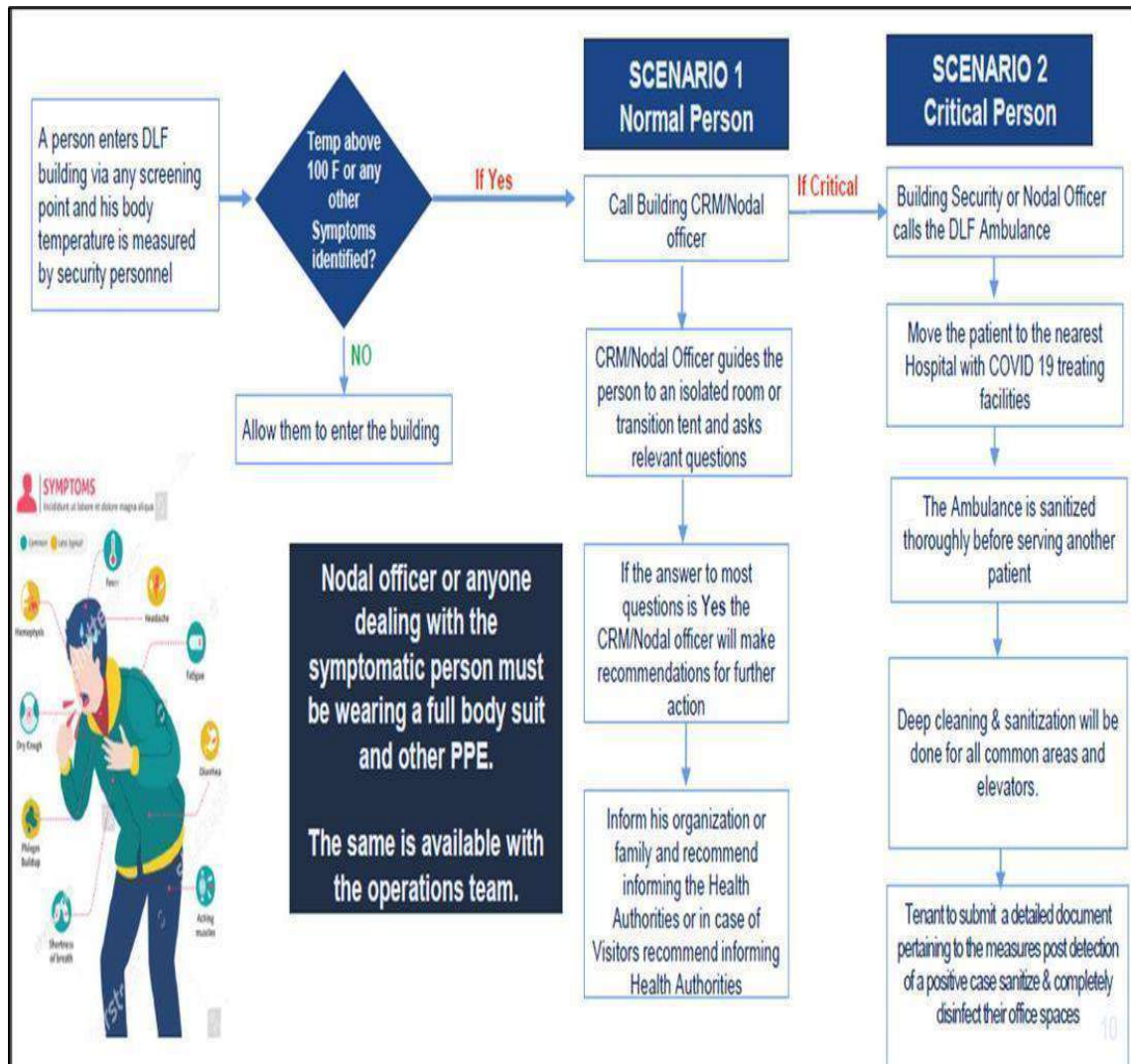
5. Staff unwell outside (Flowchart -C)

6. Trace Sheet (Flowchart - D)

Flow chart - A

Procedures Upon Detection of Visitors & Staff who are Unwell.

(Including staff unwell at work)



Checklist

Pandemic Influenza (H5N1) Screening Tool for All DLF Sites

SCREENING FORM FOR PANDEMIC INFLUENZA

This form must be completed by ALL persons before entering a DLF site and is to be used in the event of human-to-human spread of a pandemic flu virus as directed by ERT. Sections A, B and C are to be completed for sites within 50km of a WHO Phase 4 or 5 outbreak OR WHO designates Phase 6 in India OR when specified by ERT.

SECTION A:

1. Have you had unprotected contact with a person with pandemic influenza?

in the last 10 days? **OR**

No / Yes

2. In the last 10 days have you been to a health care facility that has pandemic

influenza patients or that is closed due to pandemic influenza? **OR**

No / Yes

3. Are you under quarantine, or have been advised to put yourself under quarantine or home isolation or have you been contacted by public health and put on home isolation?

No / Yes

If the answer to any question in section A is “Yes”, then quarantine applies, and Public health should be immediately notified. The person will be required to remain at home until the expiry of the 10-day period.

SECTION B:

Are you experiencing any of the following symptoms?

- Myalgia (muscle aches) **OR** **No / Yes**
- Malaise (severe tiredness or unwell) **OR** **No / Yes**
- Severe headache (worse than usual) **OR** **No / Yes**
- Cough (onset within 10 days), sore throat or runny nose (not seasonal rhinitis) **OR** **No / Yes**
- Shortness of breath (worse than what is normal for you) **OR** **No / Yes**
- Diarrhea **OR** **No / Yes**
- Feeling feverish, or have you had a fever in the last 24 hours **No / Yes**

SECTION C:

Record the temperature in Centigrade or Fahrenheit.

Is the temperature above 38 degrees Centigrade?

No / Yes

PASS or FAIL:

PASS: If the response is “No” to all sections then person passes and may enter the site. **Tick:**

FAIL: If any sections are answered “Yes” then the person fails and cannot enter the site. **Tick:**

A clinical evaluation is required for those answering “Yes” to sections B or C and the person should be given a mask and evaluated by personal physician or designated government clinic. They should be advised not to travel by public transportation for this assessment and should call in advance to warn the facility.

Education materials about pandemic influenza should be given to anyone answering “Yes” to any section.

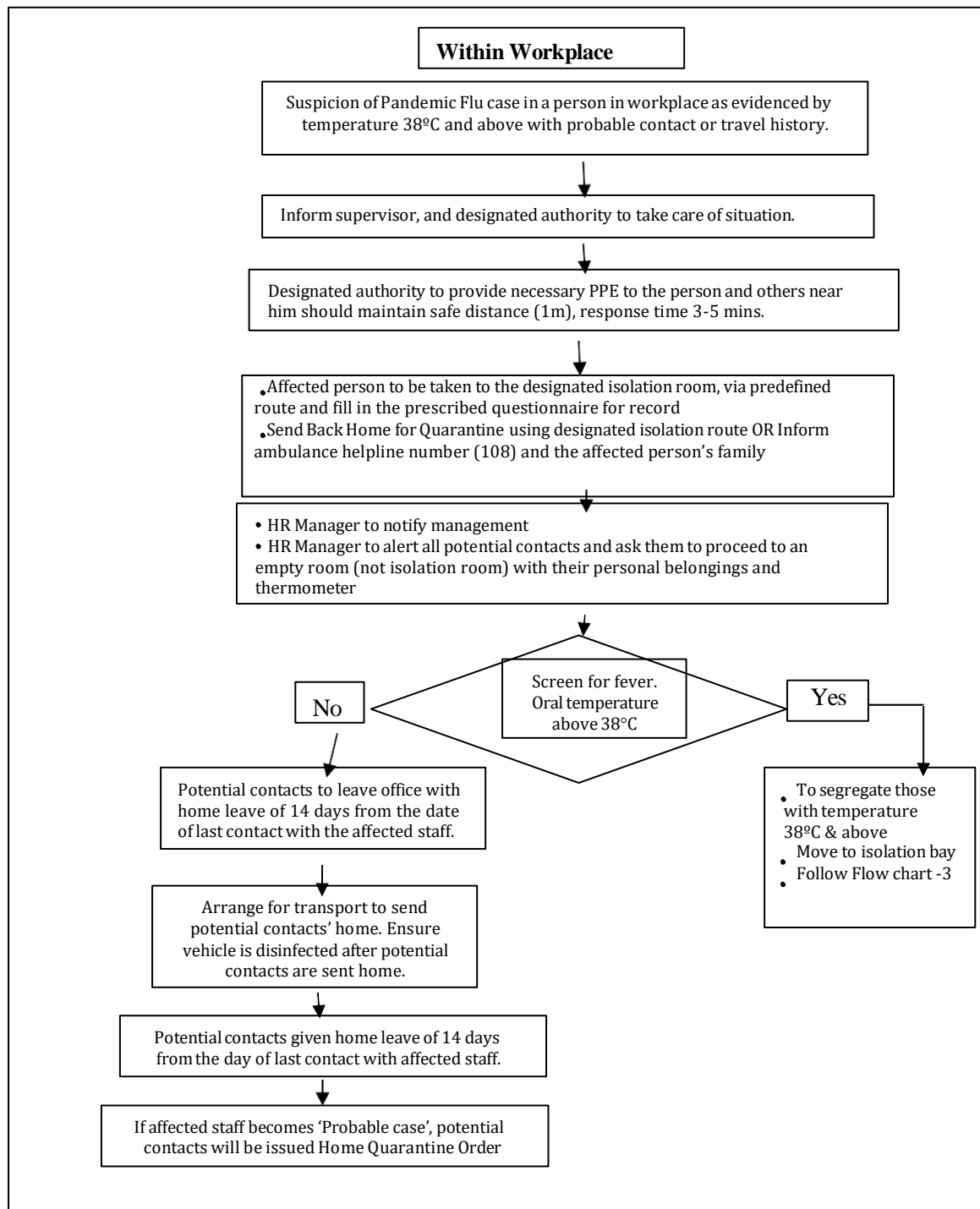
Date: _____

Name of interviewee: _____ Name of interviewer: _____

Signature: _____ Signature: _____

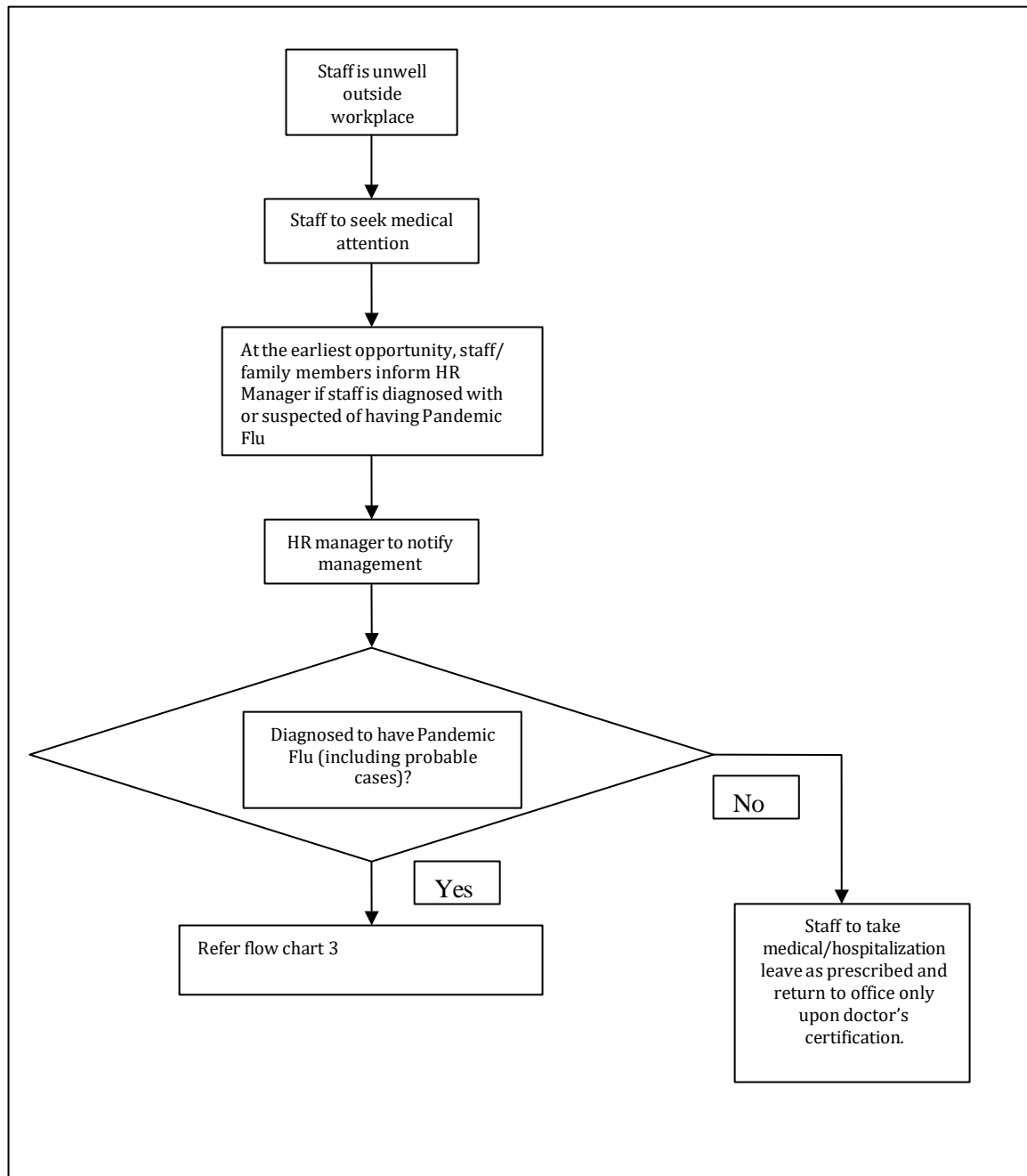
Flow chart -B

Procedures Upon Detection of Staff who are Unwell at work.



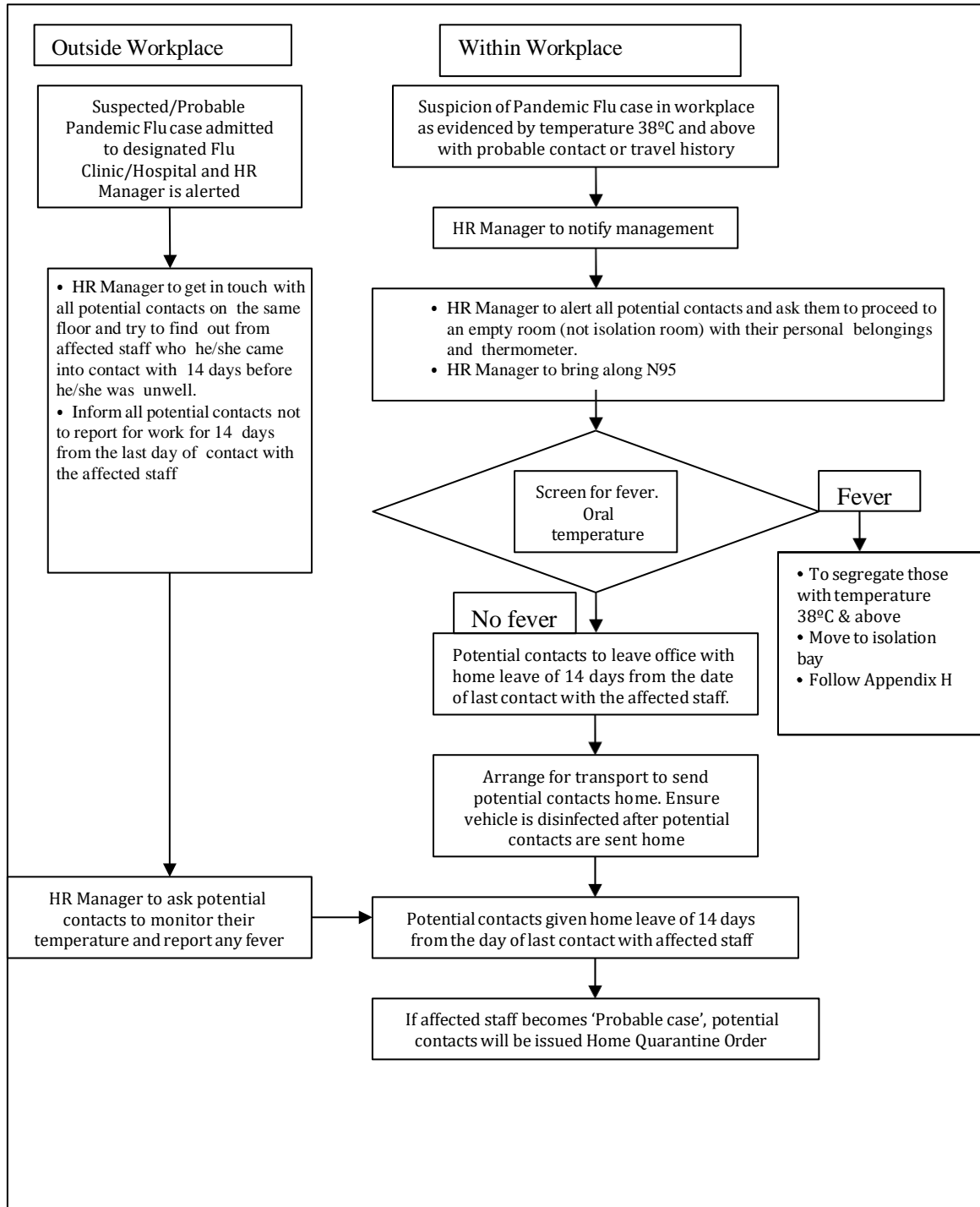
Flowchart- C

Staff Unwell Outside Workplace



Flowchart -D

Contact Tracing



5.12 Air Raid

This outlines the proactive steps to be taken before, during, and immediately after an air raid warning to ensure maximum safety and minimal disruption.

5.12.1 GENERAL GUIDELINES

- In case of an air raid in any building, occupants should seek immediate shelter in designated safe zones, such as interior rooms or basements, or if possible, move to the lowest floor. Staying low to the ground helps protect against flying debris and shrapnel. Following building-specific evacuation plans and the instructions from emergency personnel is crucial.
- Upon receiving an air raid alert, DLF building team should guide occupants to designated shelter areas, ensure blackout conditions, and provide instructions for staying indoors until the all-clear is announced by the building team, according to the Govt /administration guide. Occupants should also be informed about the location of these refuge areas/ shelters in basements to ensure readiness of all stakeholders in the event of an air raid or related emergency, in alignment with government guidelines.
- Arrange to educate the occupants about siren signals, warning alerts and emergency protocols.
- During alerts, DLF / FM / Tenants / Occupants must ensure a complete blackout by turning off all lights, avoiding the use of power backups, and staying away from windows and doors.
- Occupants, not to believe or spread unverified information or rumours, follow all verified information will be disseminated through print, electronic and official social media channels.
- DLF / FM / Tenants / Occupants to stay updated via the official social media handles of local administration
- Any suspicious or unverified message should not be forwarded, and its authenticity must be checked via official sources.
- In case of any assistance / clarification, occupants may contact customer care or respective CRM
- Reiterating the need for strict compliance with blackout protocols during air raids, following above is the key to the success of these preparedness measures depending on active participation from all stakeholders.

- DLF / FM / Tenant representatives must coordinate with local administration through the Operation Head or its representative
- Building Occupants shall follow the Safety Precautions as mentioned below:

A. Preparation

- Stay informed: Stay updated on the situation through local news, emergency alerts, and building management notifications.
- Know the emergency plan: Familiarize yourself with the building's emergency response plan, including evacuation routes and assembly points.
- Have an emergency kit: Keep a kit with essentials like food, water, first aid supplies, and a battery-powered radio.

B. During the Air Raid

- Seek shelter: Move to a designated safe area, such as a basement or an interior room, if possible.
- Stay away from windows: Avoid windows, exterior walls, and doors to minimize the risk of injury from debris or blast effects.
- Crouch or lie down: Crouch or lie down in a low, covered position to reduce exposure to potential hazards.

C. Additional Tips

- Follow building management instructions: Follow instructions from building management or emergency response teams.
- Stay calm: Remain calm and follow the emergency plan to ensure your safety and the safety of others.
- Be prepared to evacuate: Be prepared to evacuate the building if instructed to do so by authorities.

D. Post-Attack Actions

- All Clear Notification Await confirmation from civil defence before declaring "all clear."
- Headcount and Status Check Floor Wardens confirm safety of all occupants.
- Report missing or injured persons to emergency services.
- Damage Assessment Conduct a rapid safety inspection of the building.

- Check for fires, structural damage, water leaks, or electrical hazards.
- Medical Assistance Provide onsite care or arrange transport to nearby hospitals for injured persons.
- Debriefing and Incident Reporting Document incident details and response effectiveness.
- Identify gaps and areas for improvement.
- Restoration and Recovery Begin clean-up and repair operations.
- Resume operations only after clearance from safety and structural engineers.
- In case of an air raid alert in a building, DLF FM team should guide occupants to designated shelter areas, ensure blackout conditions, and provide instructions for staying indoors until the all-clear is announced, according to the Govt /administration guide. Occupants should also be informed about the location of these refuge areas/ shelters in basement.

6 Refuge Area available in the building.

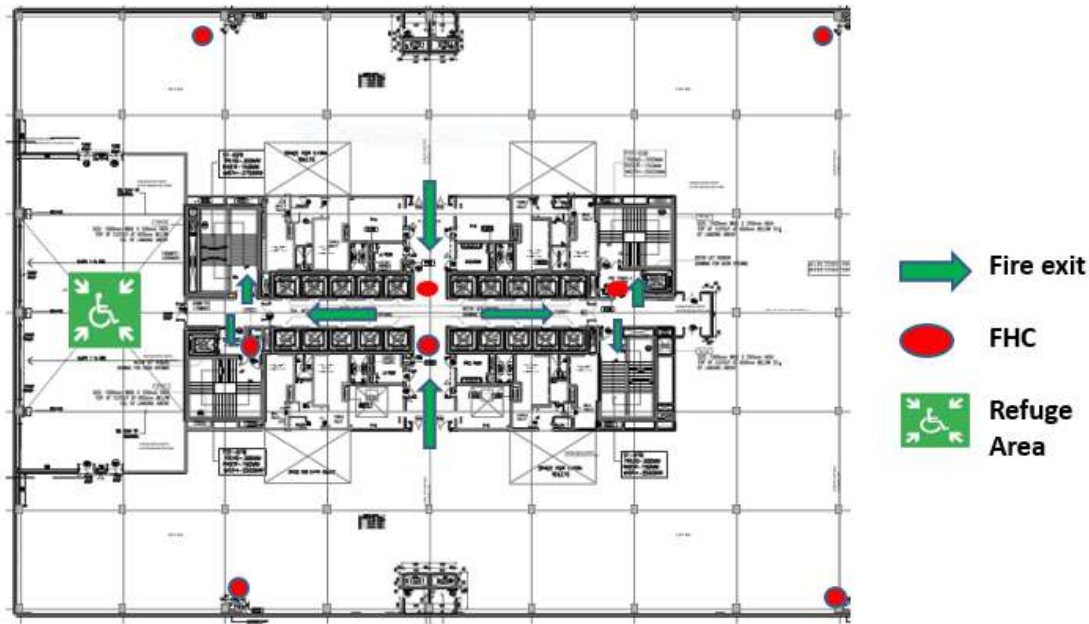
The following are the locations where the refuge areas are provided in the building:

- Tower-DT 1 Refuge Area is available at 2nd,5th,9th & 12th Floor.
- Tower-DT 2 Refuge Area is available at 2nd,5th,9th & 12th Floor.
- Tower-DT 3 Refuge Area is available at A-wing 2nd,5th,9th & 12th Floor and B-wing 2nd,5th Floor.

In case of a fire, occupants of the high-rise building Proceed to the nearest exit staircase leading to assembly area / refuge area. If you are unable to reach the assembly area, move to the nearest refuge area and wait for further instructions or for rescue personnel to arrive.

The Occupants of upper floors may take rest for brief period during evacuation. The Refuge areas are provided with following arrangements to facilitate evacuees during evacuation: -

- (a) Drinking Water Facility
- (b) First Aid kit/Box
- (c) Emergency lighting
- (d) Emergency Communication facility (Talkback & MCP)



7 EVACUATION PLAN FOR SPECIALLY ABLED AND EXPECTANT MOTHERS

The disability may be physical, cognitive, mental, sensory, emotional, developmental, or some combination of these. A disability may be present from birth or occur during a person's lifetime.

PURPOSE

During emergencies, it is crucial that persons with disabilities have access to communications services. Emergency plan can often reduce the duration and extent of trauma for people with disabilities.

EQUIPMENT REQUIRED

7.2 Wheelchairs

7.3 Stretchers

7.4 Staircase evacuation chair

Emergency Evacuation Procedures for specially abled Individuals

The Site should have procedures in place to address the evacuation of occupants with the following disabilities:

1. Mobility impairments
 - Wheelchair users
 - Ambulatory mobility disabilities
 - Respiratory impairments
2. Visual impairments
3. Hearing impairments
4. Speech impairments
5. Cognitive impairments

Note: Also include pregnant woman and person not able to walk normal due the ailment or surgery

Important instructions for people with restricted mobility Always

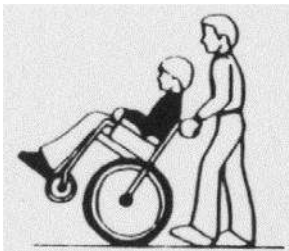
1. Have the fire department emergency number by your telephone.
2. When making a fire or medical emergency call to the fire department, give the correct location and describe your situation.
3. Know the location of the nearest fire alarm pull station and how to use it.
4. Know the location of the exit and alternate exit during an emergency evacuation. Always know of more than one exit.
5. Never use elevators during a fire.
6. Instruct co-workers or neighbors on how they can assist you.
7. Have an evacuation plan and practice it.

Remember:

In an emergency, do not hesitate to inform others that you need assistance during an evacuation. Tell them what your condition is and be prepared to give instruction. Use this section as a training aid.

In chair evacuation

- Person in non-motorized wheelchair
1. Fasten seat belt (Recommend having wheelchairs with seat belt)
 2. Unlock brake.
 3. The chair is gently leaned backward and moved to the edge of the first step.



4. One helper steadies the chair by holding the rods to which the footrests are attached.



NOTE: Do not lift chair from bottom position.

4. The helper in the top position controls the descent of the chair by bending their legs slowly and taking most of the weight.

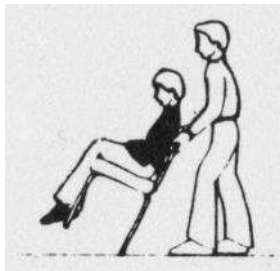


Office chair evacuation

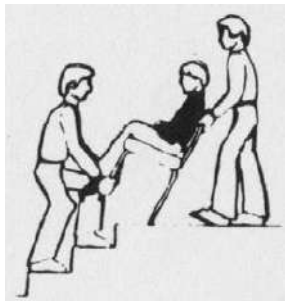
1. Transfer the differently abled individual into a sturdy office chair.

NOTE: See lifting technique described in “Two Person Carry Fore and Aft.”

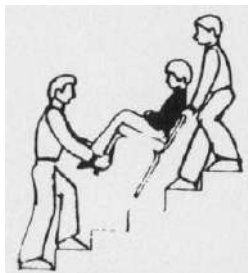
2. One helper gently leans the chair backward.



3. The other helper faces the chair and holds onto the front legs of the chair.



4. The helpers control the descent by bending legs slowly and keeping back erect.

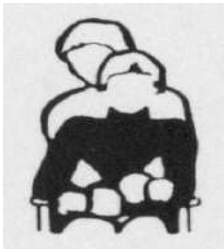


IMPORTANT: Never leave empty wheelchairs in stairwells!

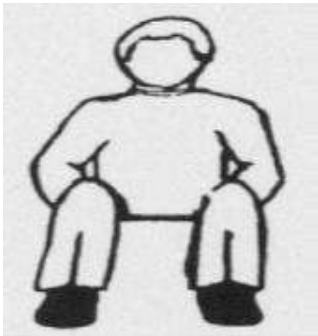
Two Person Carry Fore and Aft

- Person in motorized wheelchair
- Person with limited walking ability
- Narrow stairwell

1. One helper reaches under arms and grasps the individual's right wrist with their left hand and left wrist with their right hand.



- 2a. If the differently abled person can separate their legs, the other helper stands between their legs and lifts just above the knees.

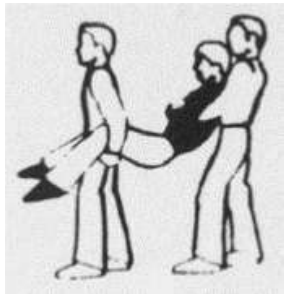


- 2b. If the differently abled person cannot separate their legs, the helper stands alongside and carries from that position



Two Person Carry Side-By-Side

- Person in motorized wheelchair
 - Person with limited walking ability
 - Wide stairwell
1. Helpers position themselves next to the wheelchair and grasp the other person's upper arm or shoulder.



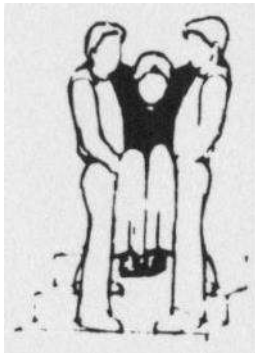
2. The differently abled individual places their arms around the helpers' necks.



3. The helpers then lean forward and place their free arm under the individual's legs and firmly grasps each other's wrists.



4. The helpers descend the steps at the same time.



PROCEDURE

- 1) List of people with disabled should be available with Fire Warden of the floor/ area.
- 2) Fire warden should ensure buddy (who support the disabled person during emergencies) is nominated and available for each disabled person.
- 3) Fire alarm should be audio & visual type (Strobe)
- 4) Buddy should be accompanied till the disabled person reach to the safe assembly area.
- 5) During emergency, one fire man lifts always running from top floor to ground level along with support team with Stretcher & wheelchair.
- 6) During emergency, fireman lift can be used for the people who cannot evacuate through staircases.
- 7) Lift call buttons will not operate when the lifts are in emergency mode. Buddy must be wait till lift reaches to their floor.
- 8) During emergency, fireman lift can be used by people who cannot evacuate through staircases.
- 9) If lift lobbies are not safe, Buddy and disabled person can assembly at refuge area, till they get support.
- 10) Fire warden should ensure all disabled persons or reached safely to the assembly area.

KEY REQUIREMENTS FOR SPECIALLY ABLED PERSONS AND EXPECTANT MOTHERS, DURING EMERGENCIES, DISASTERS AND CRISIS SITUATIONS

1. People with disabilities should receive support that is as good as that enjoyed by the general population.
2. The support should be tailored to the whole range of potential individual needs, and it should be recognized that, as a wide variety of disabilities is involved, needs will vary considerably from one person to another.
3. Planning for the care of people with disabilities should involve political authorities, public administrators, civil protection authorities and civil society organizations.
4. Emergency plans should consider persons with disabilities individually rather than as groups or categories.
5. The locations and emergency need of people with disabilities should be known and assessed before disaster strikes.
6. Special emergency planning provisions should be made for care homes, psychiatric hospitals and other centers where people with disabilities are likely to be concentrated.
7. Education programme for all who are involved in planning for, managing, responding to or recovering from disasters should include information on how to improve provisions for people with disabilities.
8. Alert processes should be configured in a way that automatically includes the needs and capacities of persons with disabilities (the Design for All principle).
9. Evacuation, emergency transportation, sheltering and rehabilitation processes should not discriminate against people with disabilities but should ensure that their needs are catered for.
10. Emergency responders should maintain a correct, professional, and non-discriminatory attitude to people with disabilities
11. Emergency responders who are required to lift and transport people with physical impairments should receive appropriate training and have appropriate equipment for these tasks.

12. In pre- or post-disaster evacuation, procedures should be in place to ensure that no one is left behind.

13. Rest centers and temporary dormitories should be equipped to accommodate people with disabilities who are expected to use them.

14. People with disabilities should not suffer discrimination in the assignment of temporary, post-disaster accommodation, which should be accessible to them and designed to meet their essential needs.

15. Procedures should be put in place to ensure that people with disabilities are not discriminated against during planning, warning, alert, evacuation, emergency response, respite, transitional shelter, or recovery from disaster. Cases of discrimination should be dealt with promptly and fairly.

8 Golden Timings – Emergency Response Time

- **Basement:**

In case of an emergency in the basement, the Emergency Response Team (ERT) will reach the location within 3 minutes, either by walking or using the lift.

- **Terrace:**

In case of an emergency on the terrace, the ERT will reach the location within 5 minutes if using the staircase, or within 3 minutes if using the lift.

- **Fire Tender Team:**

The Fire Tender Team will reach the incident surface area within 3 minutes of an emergency.

- **Bronto Sky Lift Team:**

The Bronto Sky Lift Team will reach the incident surface area within 3 minutes of an emergency.

- **Ambulance Team (Internal):**

The internal Ambulance Team will reach the incident surface area within 3 minutes of an emergency.

- **External Ambulance Team:**

The External Ambulance Team will reach the incident surface area within 5 minutes of an emergency.

- **External Fire Station Team:**

The External Fire Station Team will reach the incident surface area within 15 minutes of an emergency.

9 ANNEXURES

(Note: Annexures should be updated on Quarterly basis)

ANNEXURE: 1

LIST OF TENANTS			
S.NO	TOWER	FLOOR	TENANT's NAME
1	1DT	S1 FLOOR	STARBUCKS
2			AXIS BANK
3	2DT	S1 FLOOR	RELAY
4			KIDO
5	FOOD HALL	GROUND FLOOR	MADRAS COFFEE HOUSE
6			CHAI KING
7			SQUEEZE JUICE
8			McDonald's
9			CALIFORNIA BURRITO
10			A2B
11			ASIA 7
12			AMARAVATHI
13			STARBUCKS
14			KFC
15			BACI QSR - KITCHEN
16	1DT	L1 FLOOR	COWI
17		L2 FLOOR - WEST SIDE	EVERI
18		L2 FLOOR - EAST SIDE	McDermott
19		L3 & L4 FLOOR	McDermott
20		L5 FLOOR	SYNECHRON
21		L6 FLOOR	SIMPLIWORKS
22		L7, L8 & L9 FLOOR	FIDELITY
23		L10 FLOOR - WEST SIDE	SIMPLIWORKS
24		L10 FLOOR - EAST SIDE	TABLESPACE
25		L11 - L14 FLOOR	KLA
26	DT 2	GROUND - L11 FLOOR	BACI
27	DT 3	GROUND - L9 FLOOR	STANDARD CHARTERED
28		L10 FLOOR	TABLESPACE
29		L11 - L13 FLOOR	AMEX

ANNEXURE: 2

INTERNAL CONTACT DETAILS			
S.no	Name	Designation	Mobile No.
01	George Jesuraj Fernandes	VP, Operations	9663846919
02	Sridharan	GM, Operations	9902755477
03	Muthumalai V	DGM, Operations	9789366177
04	Chinta Siva Prasad	DGM, Fire Safety	9989501704
05	Jai Mishra	Manager, Security	7776960401
06	Balu P	Manager, Operations	9962591380
07	Rakesh Reddy	Operations Head, Retail	91769 90510
08	Arun AC	Sr. Manager, Fitout	9626916969
09	Senthilnathan V	Manager, Soft Service	9986766414
10	Vengatesan M	Asst. Manager, Utility	9790364647
11	Rajesh S	Asst. Manager, BMS	8248457637

Other ERT Members from FM

S.no	Full Name	Designation	Mobile No	Department	Blocks
1	IV Ramachandran	SPOC	9884706088	Operations	Common
2	Ramakanta Nahak	DGM	9538335777	Operations	Common
3	Suresh Kumar	Sr. Manager	9940446240	Operations	DT1&2
4	Shanmugam	Sr. Manager	8825785797	Technical	Common
5	Jahir Hussain	Manager	9884678844	Technical	DT1
6	Murgan	Manager	9884999072	Security	Common
7	Boopathi	Manager	9597590274	EHS	Common
8	Ashik Mohamed	Manager	9629419771	Fire & Safety	Common
9	Arulmozhi	Manager	9003457037	Soft Service	Common
10	Badrinath	Asst. Manager	9840405269	Technical	DT3
11	Krishnaraj	Asst. Manager	9952644155	Procurement	Common
12	Muthukumar	Asst. Manager	7871383312	Fire & Safety	Common
13	Ramdas	Asst. Manager	8939566607	Technical	Common
14	Thurai	Asst. Manager	9994411757	Soft Service	Common
15	Ramkumar	Asst. Manager	9976884916	Technical	Common
16	Mathan	Asst. Manager	9944092519	Technical	Common
17	Deepak	Fire & Safety Officer	7550275096	Fire & Safety	Common
18	Varatharajan	Fire & Safety Officer	9952556485	Fire & Safety	Common
19	Arun Kumar	Fire & Safety Officer	8220387438	Fire & Safety	Common
20	Surya A	Fire & Safety Officer	9629315224	Fire & Safety	Common
21	Petchimuthu A	Fire & Safety Officer	7871320314	Fire & Safety	Common
22	Vishnu A	Fire & Safety Officer	7338954807	Fire & Safety	Common

23	Vishnu Kumar	Fire & Safety Officer	6397974733	Fire & Safety	Common
24	Aridharmakrishnan	Fire & Safety Officer	9943610864	Fire & Safety	Common
25	Anandarajan K	Shift Engineer	9551472333	Technical	Common
26	Veeraragavan K	Shift Engineer	8122897332	Technical	Common
27	Sudarmani	Shift Engineer	8344338629	Technical	Common
28	Karthik Krishnan	Shift Engineer	9884546053	Technical	Common
29	Velu	Shift Engineer	8220542264	Technical	Common
30	Praveen N	Shift Engineer	8122755195	Technical	Common
31	Harish	Shift Engineer	9840490515	Technical	Common
32	Siva	Shift Engineer	9791975119	Technical	Common
33	Dhanush	Shift Engineer	9080516742	Technical	Common
34	Karunakaran	Shift Engineer	8072034271	Technical	Common
35	Dhevaram S	Security Officer	8940405416	Security	Common
36	Janakiraman	Security Officer	9019229145	Security	Common
37	Sasi Damodaran	Security Officer	8605464303	Security	Common
38	Kalimuthu	Executive	9176095393	Soft Service	Common

ANNEXURE: 3

INTERNAL AND EXTERNAL CONTACT DETAILS				
SL.NO	LOCATION	DESCRIPTION	TEL.NO	MOBILE NO
1	DLF - DOWNTOWN, CHENNAI	FIRE TENDER	-	8056170552
2		AMBULANCE	-	8925926191
3		CUSTOMER CARE CENTRE	-	8925926191
4		DUTY FIRE STATION OFFICER	-	8925926193
5		DUTY MANAGER	-	8925926194
6		DUTY SECURITY OFFICER	-	8925926192
7	TAMILNADU FIRE AND RESCUE SERVICES	FIRE CONTROL NUMBER - TNFRS (EGMORE)	044 - 28294132, 28294120, 28294121, 28294124	101/102
8		FIRE STATION POONAMALLEE	044 - 26274700	-
9		STATION OFFICER THORAIPAKKAM	044 2496 1186	-
10		FIRE STATION - THIRUVANMIYUR	044 2440 1213	9445086052
11		FIRE STATION GUINDY - STATION OFFICER	044 2250 2101	9445086050
12		FIRE STATION (RAJBHAVAN)	044 2235 4835	9445086051
13	POLICE STATION	POLICE CONTROL ROOM CHENNAI	044 - 23452367	100
14		J13 TARAMANI POLICE STATION	044-22541636	09498100168
15		J7 TRAFFIC POLICE STATION VELACHERY	-	09498140599
17		POLICE TRAFFIC	044 3322 1111	
18	HOSPITAL	APOLLO MULTI SPECIALITY HOSPITAL	044 - 22492288	-
19		PRASHANTH SUPER SPECIALITY HOSPITAL, VELACHERY	044 4680 5544	-
20		VHS HOSPITAL, THARAMANI	098847 30000	-
23		GOVERNMENT GENERAL HOSPITAL (RAJIV GANDHI- CENTRAL	044 - 25305000	-
24	ELECTRICITY DEPARTMENT	TARAMANI SUBSTATION	044 2454 0674	9789876107
26	DISTRICT COLLECTOR	COLLECTOR OFFICE - KANCHIPURAM	044 - 27237433	-
27		COLLECTOR OFFICE - CHENGALPATTU	044 - 27427412	-
28		COLLECTOR OFFICE - CHENNAI	044 - 25228025	9444131000
29		COLLECTOR OFFICE - TIRUVALLUR	044 - 27661600	9962354270
30	METEROLOGY	METEOROLOGICAL DEPT - NUNGAMBAKKAM	044 - 22300655	-
31		METEOROLOGICAL DEPT - MEENAMBAKKAM	044 - 28271951	-
32	NATIONAL DISASTER MANAGEMENT AUTHORITY	THIRUVALLUR	044 - 27661600 , 044 - 27662455	-
33		KANCHEEPURAM	044 - 27237433 , 044 - 27238477	-
34		CHENNAI	044 - 25228025	-
35	BOMB THREAT	THROUGH POLICE STATION	100	-

ANNEXURE: 4

LIST OF SPECIALLY ABLED PERSON & EXPECTED MOTHERS			
S. No.	Company Name	Floor/ Location	Name of Employee
1	McDermott	L3 FLOOR	SUBRAMANIAN THANIGAIVELU

ANNEXURE: 5**Building Details (DLF Downtown, Chennai)**

1	Name of the Building and Address	DT 1 DLF Downtown Taramani Chennai
1.a	Plot Area (In.Sq.Meters)	5598.5 Sqm
1.b	Total No. of floors with description	01 Basement+4 Stilt Floor+1 TOS +14 Floors
1.b.i	Basement	01 Basement
1.b.ii	Amenity	Stilt 1 +TOS
1.b.iii	Office Floors	TOS+14 Floors
1.b.iv	Penthouse	Not Applicable
1.c	Height of the building (in meters)	80.14 M
1.d	Entrance (width)	24.5 M
1.e	Approach road (width)	16 M
2.	Occupancy / Use	E3 Business
3.	Parking areas	1 Basement + 4 Stilts
4.	Exposure hazard	Nil
5.	Fire resistance of construction materials	230mm thick wall (120M fire resistance)
5.a	Self-closing fire / smoke check doors	Self-closing Fire doors provided
5.b	Partition	Block Work/AAC Block Work
5.c	False Ceiling	Grid tiles & Gypsum Board
5.d	Lining for air-conditioning ducts	-
5.e	Insulation for air-conditioning ducts	-
5.f	Paneling	Gypsum Board/Bison Board.
5.g	Surface finishes	Plaster, Paint, Glass
5.h	Enclosures for panels for electrical switches, shafts etc., and access doors to such enclosures	Yes
6.	Compartmentation	Yes
7.	Ventilation	Pressurized

8.	Means of entry	Ramps & Staircase						
9.	Means of escape	Fire Exit Staircase, Ramp, Main Staircase						
10.	Electric Installations	Dry type transformers in stilt 1						
11.	Alternate lighting arrangements	UPS Back-up						
12.	Rooms air-conditioners	Centralized Air Conditioning						
13.	Drainage	Provided as per NBC 2016						
14.	Lightening protections	Provided as per NBC 2016						
15.	Fire protection & alarm system	Yes						
16.	Water supply (well, bore pumps, water mains etc.)	Metro Water supply through Pipelines						
17.	Fire pumps (Total Nos.)	SL.NO	PUMPNAME	HEAD (M)	FLOW RATE (LPM)	LOW ZONE	HIGH ZONE	
		DT1&DT2						
						Cut-In	Cut-Off	
		1	Jockey Sprinkler	100/150	180	9	10	13
		2	Main Sprinkler	100/150	2850	7	Manual	11
		3	Jockey Hydrant	100/150	180	8	10	12
		4	Main Hydrant	100/150	2850	6	Manual	10
		5	DG 1	100/150	2850	5	Manual	9
		6	DG 2	100/150	2850	4	Manual	8
		WATER CURTAIN						
						Cut-In	Cut-Off	
1	Main	55	2850	4.5	Manual			
2	DG	55	2850	3.5	Manual			
18.	Wet riser down comer & Hydrant system & automatic sprinkler system	Provided as per NBC 2016						
19.	Hose reel & Hose box	Yes						
20.	Portable fire extinguishers	Yes						
21.	Fire lift with separate generator	Yes						
22.	Storage of Diesel / Oil / LPG	UG Tank for HSD and LPG bank at stilt 1						
23.	Communication System	PA, Talk Back system & Walkie Talkies						
23.a	Public Address System	Yes						
23.b	Illuminated signs	Yes						
24.	Maintenance of fire protection installation equipment's (by whom)	CBRE						
25.	Firefighting training to staff	Well Trained Fire Officers available. Regular training given to staff						

1	Name of the Building and Address	DT 2 DLF Downtown Taramani Chennai
1.a	Plot Area (In.Sq.Meters)	5598.5 Sqm
1.b	Total No. of floors with description	01 Basement+4 Stilt Floor+1 TOS +14 Floors
1.b.i	Basement	01 Basement
1.b.ii	Amenity	Stilt 1 +TOS
1.b.iii	Office Floors	TOS+14 Floors
1.b.iv	Penthouse	Not Applicable
1.c	Height of the building (in meters)	80.14 M
1.d	Entrance (width)	24.5 M
1.e	Approach road (width)	16 M
2.	Occupancy / Use	E3 Business
3.	Parking areas	1 Basement + 4 Stilts
4.	Exposure hazard	Nil
5.	Fire resistance of construction materials	230mm thick wall (120M fire resistance)
5.a	Self-closing fire / smoke check doors	Fire Door provided, Self Door closing
5.b	Partition	Block Work/AAC Block Work
5.c	False Ceiling	Grid tiles & Gypsum Board
5.d	Lining for air-conditioning ducts	-
5.e	Insulation for air-conditioning ducts	-
5.f	Paneling	Gypsum Board/Bison Board.
5.g	Surface finishes	Plaster, Paint, Glass
5.h	Enclosures for panels for electrical switches, shafts etc., and access doors to such enclosures	Yes
6.	Compartmentation	Yes
7.	Ventilation	Pressurized
8.	Means of entry	Ramps & Staircase
9.	Means of escape	Fire Exit Staircase, Ramp, Main Staircase

10.	Electric Installations	Dry type transformers in stilt 1						
11.	Alternate lighting arrangements	UPS Back-up						
12.	Rooms air-conditioners	Centralized Air Conditioning						
13.	Drainage	Provided as per NBC 2016						
14.	Lightening protections	Provided as per NBC 2016						
15.	Fire protection & alarm system	Yes						
16.	Water supply (well, bore pumps, water mains etc.)	Metro Water supply through Pipelines						
17.	Fire pumps (Total Nos.)	SL NO	PUMP NAME	HEAD (M)	FLOW RATE (LPM)	LOW ZONE	HIGH ZONE	
		DT1&DT2						
						Cut-In	Cut-Off	
		1	Jockey Sprinkler	100/150	180	9	10	13
		2	Main Sprinkler	100/150	2850	7	Manual	11
		3	Jockey Hydrant	100/150	180	8	10	12
		4	Main Hydrant	100/150	2850	6	Manual	10
		5	DG 1	100/150	2850	5	Manual	9
		6	DG 2	100/150	2850	4	Manual	8
		WATER CURTAIN						
						Cut-In	Cut-Off	
		1	Main	55	2850	4.5	Manual	
2	DG	55	2850	3.5	Manual			
18.	Wet riser down comer & Hydrant system & automatic sprinkler system	Provided as per NBC 2016						
19.	Hose reel & Hose box	Yes						
20.	Portable fire extinguishers	Yes						
21.	Fire lift with separate generator	Yes						
22.	Storage of Diesel / Oil / LPG	UG Tank for HSD and LPG bank at stilt 1						
23.	Communication System	PA, Talk Back system & Walkie Talkies						
23.a	Public Address System	Yes						
23.b	Illuminated signs	Yes						
24.	Maintenance of fire protection installation equipment's (by whom)	CBRE						
25.	Firefighting training to staff	Well Trained Fire Officers available. Regular training given to staff						

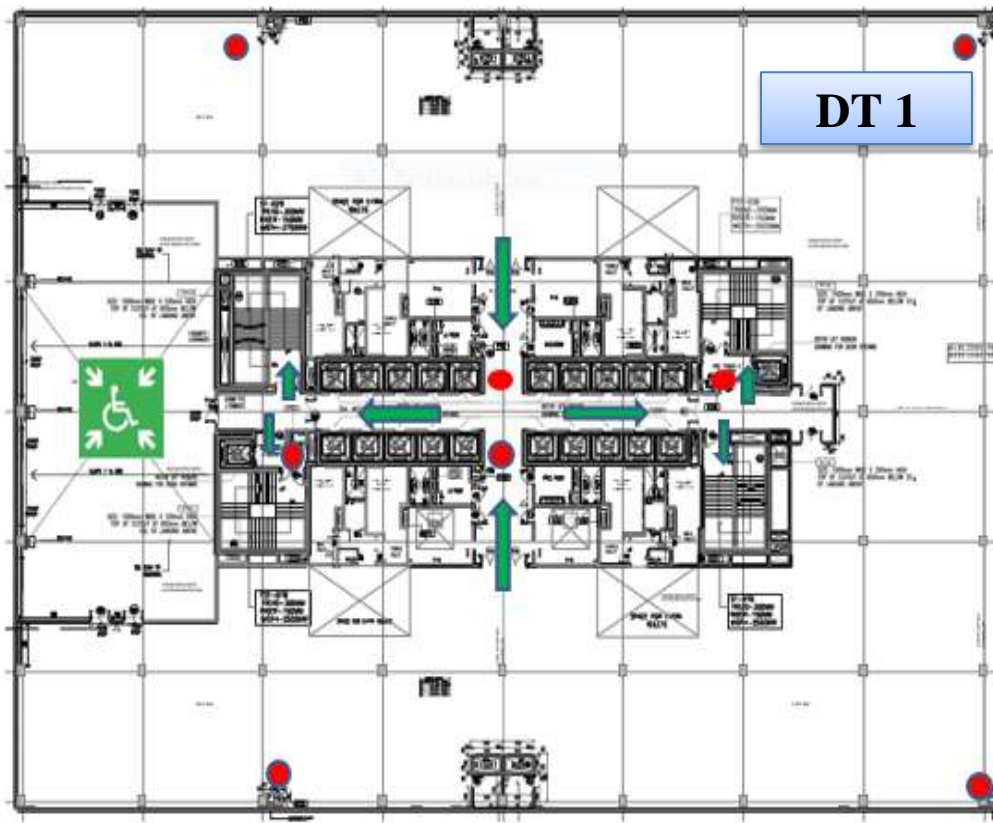
1	Name of the Building and Address	DT 3 DLF Downtown Taramani Chennai
1.a	Plot Area (In.Sq.Meters)	8464.2 Sqm
1.b	Total No. of floors with description	01 Basement+4 Stilt Floor+1 TOS A-wing 13 Floors + B-wing 8 Floors
1.b.i	Basement	01 Basement
1.b.ii	Amenity	Stilt 1
1.b.iii	Office Floors	TOS+ A-wing 13 Floors + B-wing 8 Floors
1.b.iv	Penthouse	Not Applicable
1.c	Height of the building (in meters)	A-wing 75.52 M & B-wing 54.6 M
1.d	Entrance (width)	24.5 M
1.e	Approach road (width)	16 M
2.	Occupancy / Use	E3 Business
3.	Parking areas	1 Basement + 4 Stilts
4.	Exposure hazard	Nil
5.	Fire resistance of construction materials	230mm thick wall (120M fire resistance)
5.a	Self-closing fire / smoke check doors	Fire Door provided, Self Door closing
5.b	Partition	Block Work/AAC Block Work
5.c	False Ceiling	Grid tiles & Gypsum Board
5.d	Lining for air-conditioning ducts	-
5.e	Insulation for air-conditioning ducts	-
5.f	Paneling	Gypsum Board/Bison Board.
5.g	Surface finishes	Plaster, Paint, Glass
5.h	Enclosures for panels for electrical switches, shafts etc., and access doors to such enclosures	Yes
6.	Compartmentation	Yes
7.	Ventilation	Pressurized
8.	Means of entry	Ramps & Staircase

9.	Means of escape	Fire Exit Staircase, Ramp, Main Staircase																	
10.	Electric Installations	Dry type transformers in Stilt 1																	
11.	Alternate lighting arrangements	UPS Back-up																	
12.	Rooms air-conditioners	Centralized Air Conditioning																	
13.	Drainage	Provided as per NBC 2016																	
14.	Lighting protections	Provided as per NBC 2016																	
15.	Fire protection & alarm system	Yes																	
16.	Water supply (well, bore pumps, water mains etc.)	Metro Water supply through Pipelines																	
17.	Fire pumps (Total Nos.)	<table border="1"> <thead> <tr> <th>S.no</th> <th>Pump Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Jockey Hydrant</td> </tr> <tr> <td>2</td> <td>Main Hydrant</td> </tr> <tr> <td>3</td> <td>Jockey Sprinkler</td> </tr> <tr> <td>4</td> <td>Main Sprinkler</td> </tr> <tr> <td>5</td> <td>Diesel Pump - 1</td> </tr> <tr> <td>6</td> <td>Diesel Pump - 2</td> </tr> <tr> <td>7</td> <td>Main Water Curtain</td> </tr> </tbody> </table>	S.no	Pump Name	1	Jockey Hydrant	2	Main Hydrant	3	Jockey Sprinkler	4	Main Sprinkler	5	Diesel Pump - 1	6	Diesel Pump - 2	7	Main Water Curtain	
S.no	Pump Name																		
1	Jockey Hydrant																		
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6	Diesel Pump - 2																		
7	Main Water Curtain																		
18.	Wet riser down comer & Hydrant system & automatic sprinkler system	Provided as per NBC 2016																	
19.	Hose reel & Hose box	Yes																	
20.	Portable fire extinguishers	Yes																	
21.	Fire lift with separate generator	Yes																	
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25.	Firefighting training to staff	Well Trained Fire Officers available. Regular training given to staff																	

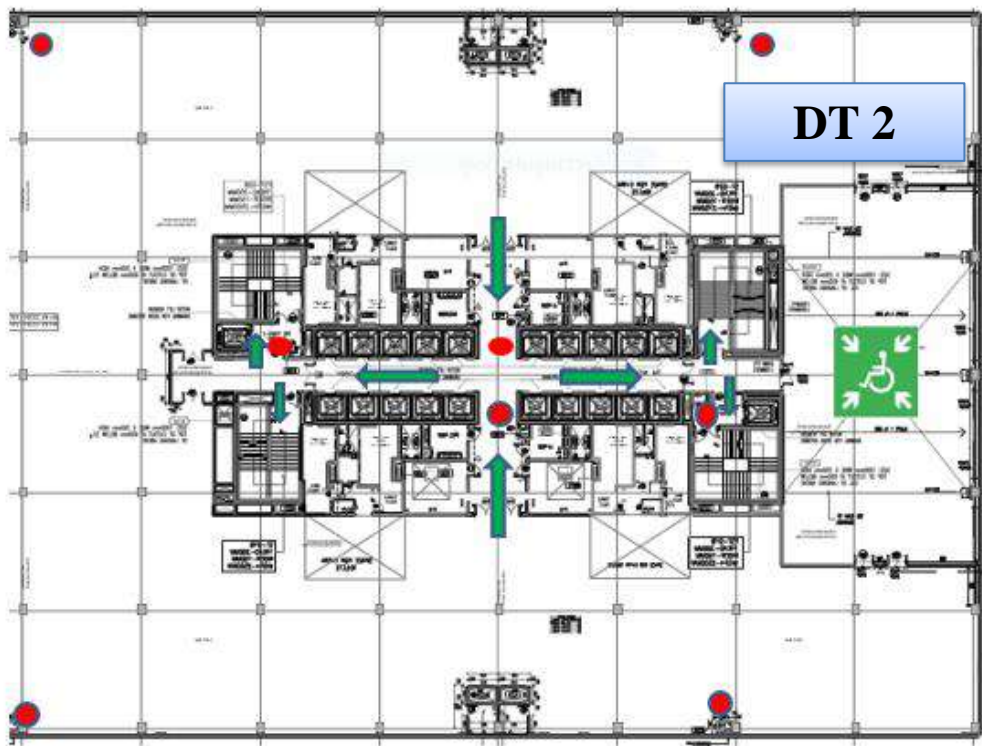
1	Name of the Building and Address	Utility Building DLF Downtown Taramani Chennai
1.a	Plot Area (In.Sq.Meters)	1866.2 Sqm
1.b	Total No. of floors with description	Ground Floor + 2 Floors + Terrace
1.b.i	Basement	Not Applicable
1.b.ii	Amenity	Not Applicable
1.b.iii	Office Floors	Not Applicable
1.b.iv	Penthouse	Not Applicable
1.c	Height of the building (in meters)	21.45 mtr
1.d	Entrance (width)	24.5 M
1.e	Approach road (width)	16 M
2.	Occupancy / Use	Group H
3.	Parking areas	Nil
4.	Exposure hazard	Diesel tanks
5.	Fire resistance of construction materials	230mm thick wall (120M fire resistance)
5.a	Self-closing fire / smoke check doors	Fire Door provided, Self Door closing
5.b	Partition	Block Work/AAC Block Work
5.c	False Ceiling	Nil
5.d	Lining for air-conditioning ducts	-
5.e	Insulation for air-conditioning ducts	-
5.f	Paneling	Acoustic Insulation
5.g	Surface finishes	Plaster, Paint, Glass
5.h	Enclosures for panels for electrical switches, shafts etc., and access doors to such enclosures	Yes
6.	Compartmentation	Yes
7.	Ventilation	Pressurized
8.	Means of entry	Staircase
9.	Means of escape	Fire Exit Staircase

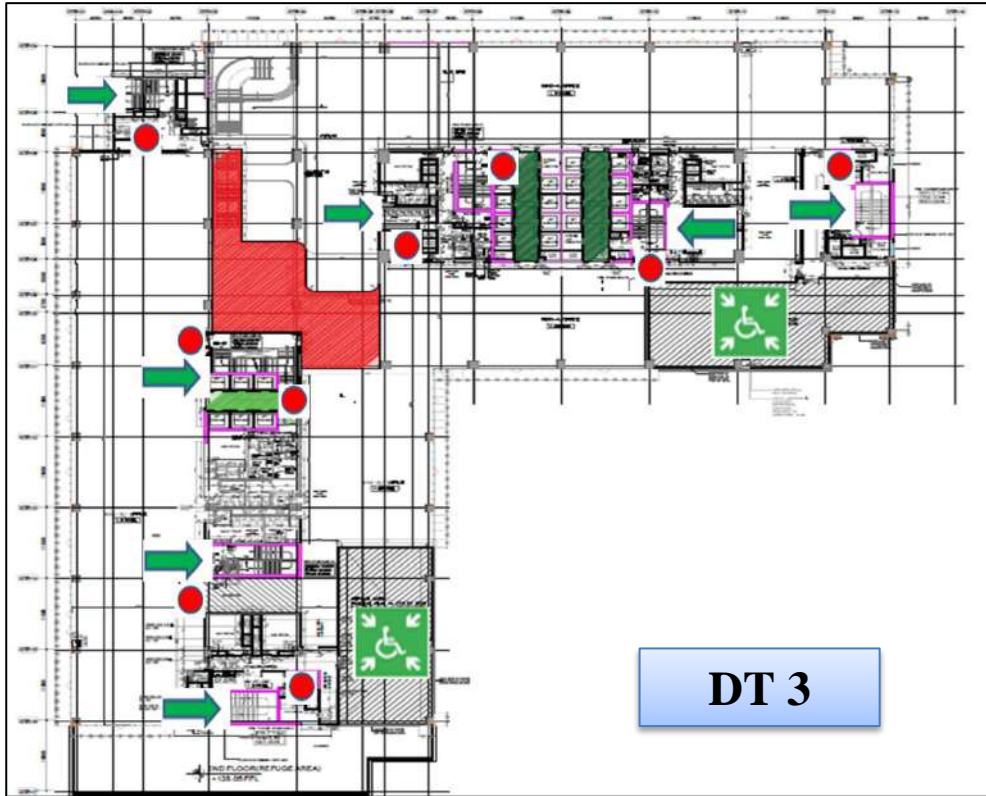
10.	Electric Installations	HT panel in 2nd Floor			
11.	Alternate lighting arrangements	UPS Back-up			
12.	Rooms air-conditioners	Not Applicable			
13.	Drainage	Provided as per NBC 2016			
14.	Lightening protections	Provided as per NBC 2016			
15.	Fire protection & alarm system	Yes			
16.	Water supply (well, bore pumps, water mains etc.)	Metro Water supply through Pipelines			
17.	Fire pumps (Total Nos.)	S.no	Pump Name	Head (M)	Flowrate (LPM)
		1	Jockey Hydrant	80	180
		2	Main Hydrant	80	3420
		3	Jockey Sprinkler	80	180
		4	Main Sprinkler	80	3420
		5	Diesel Engine	80	2280
18.	Wet riser down comer & Hydrant system & automatic sprinkler system	Provided as per NBC 2016			
19.	Hose reel & Hose box	Yes			
20.	Portable fire extinguishers	Yes			
21.	Fire lift with separate generator	Yes			
22.	Storage of Diesel / Oil / LPG	UG Tank, MS Tanks for HSD			
23.	Communication System	PA, Talk Back system & Walkie Talkies			
23.a	Public Address System	Yes			
23.b	Illuminated signs	Yes			
24.	Maintenance of fire protection installation equipment's (by whom)	CBRE			
25.	Firefighting training to staff	Well Trained Fire Officers available. Regular training given to staff			

ANNEXURE: 6 Floor Plan & Fire Exit Plans



-  Fire exit
-  FHC
-  Refuge Area





ANNEXURE: 7

TENANT'S FIRE / FLOOR WARDEN LIST				
S. No.	FLOOR	TENANT's NAME	FIRE WARDEN's NAME	CONTACT NUMBER
1	1DT - TOS FLOOR	STARBUCKS	Mr. LOKESWARAN	9710236227
2	2DT - S1 FLOOR	RELAY	Mr. SATHAYANARAYAN	9738837717
3	2DT - S1 FLOOR	KIDO	Ms. BHARANI	7845790958
4	FOOD HALL - GROUND FLOOR	MADRAS COFFEE HOUSE	Mr. TAMIL	9791790826
5		CHAI KING	Mr. RAHUL	6900471828
6		SQUEEZE JUICE	Ms. SUMATHI	9786248724
7		McDONALD'S	Mr. GUDDU KUMAR	7299658480
8		CALIFORNIA BURRITO	Mr. AJAY	7086533887
9		A2B	Mr. LOKESH	9176195196
10		ASIA 7	Mr. AMIT	8368953777
11		AMARAVATHI	Mr. SARAVANAN	9176423357
12		KFC	Ms. RAJI	9791613402
13		1DT - L1 FLOOR	COWI	Mr. MANO
14	1DT - L2 FLOOR - WEST SIDE	EVERI	Ms. SHOBA	9962837348

15	1DT – L4, L3 & L2 FLOOR - EAST SIDE	McDERMOTT	Mr. KRISHNAN	9500011648
16	1DT - L5 FLOOR	SYNECHRON	Mr. JEROME SAGAYRAJ	8956138962
17			Mr. KARTHIKEYAN	-
18			Mr. DINESH KUMAR S	-
19			Ms. SHILPA VERONICA	-
20			Mr. ASWIN S	-
21			Mr. SANTOSH K	-
22			Mr. ARUN K	-
23			Mr. DILLI GANESH	-
24			Mr. PRAMOD	-
25			Mr. TENNAPPAN	-
26			Mr. RUPA K	-
27	1DT – L6 & L10 FLOOR - WEST SIDE	SIMPLIWORKS	Mr. ANBUMANI	9952981150
28			Ms. RUPA BASUDEVAN	-
29			Ms. NILAVAZHAGI B	-
30			Mr. VISHWANATHAN K	-
31			Mr. VIJAYA RAMA C	-
32			Mr. RAMA S	-
33			Mr. SRIKANTH Y	-
34			Mr. SATHEESH S P	-
35	1DT - L10 FLOOR - EAST SIDE	TABLESPACE	Mr. ARUN	9036900964
36	2DT - GROUND to L11 FLOOR	BANK OF AMERICA	Mr. JAIPRAKASH	7799930004
37	3DT – L1 to L9 FLOOR	SCB	Mr. SATHISH	9962505156
38	3DT – L10 to L14 FLOOR	AMEX	Mr. VISHNU MENON	9995321317

ANNEXURE: 8

LIST OF EMERGENCY EQUIPMENT		
S. No.	Name of Equipment	Qty
1	Fire Suit	6
2	SCBA Set	6
3	SCBA (Spare Cylinder)	12
4	Motion Sensor Personal Alert Safety Alarm - DSU	6
5	Emergency Evacuation Chair	2
6	Glass Centre Punch	1
7	Gumboot Steel Toe	10
8	Leather Hand Gloves	20
9	First Aid Box	10
10	Multi-gas Detector	2
11	Rescue Kit with Accessories	2
12	Safety K-POD/Tripod	1
13	Ambu Bag	10
14	Oxygen cylinders 10 ltr	2
15	Oxygen Concentrator	1
16	Smoke Escape Hood	5
17	Portable PA Speaker	1
18	Megaphone	2
19	Emergency stretcher	6
20	Portable LED lighting system with 2 X 220 W (40000 lumens) with 5 KVA portable generator	1
21	High Expansion Foam Generator	1
22	Fuel saw	1
23	Electrical saw	1
24	Life oxygen pack	2
25	Oxygen face mask	2
26	Air splint	1
27	Insulated Axe 20000V	10
28	Foldable bed	2
29	Fire Blanket	4

30	Lock cutter Medium	2
31	Lock cutter Big	2
32	Sledgehammer 5 kg	12
33	Sledgehammer 10 kg	10
34	Claw hammer	20
35	Carpenter Hammer	12
36	Spade	15
37	Shovel	15
38	FloodSax absorbent	10
39	Cut Resistance Gloves	1

-----END-----

Annexure-XXXIII
Water Purchase Order

EVERSENDAI

EVERSENDAI CONSTRUCTION PRIVATE LIMITED

Plot No: 1 & 2, The Lords, Block-1, 5th Floor, Thiru-Vi-Ka Industrial Estate, Jawaharlal Nehru Road, Ekkattuthangal, Guindy, Chennai - 600032, TN, IND

Tel: Fax: GST: 33AACCE2174N1ZL

PURCHASE ORDER

Order To : St Pio Water Supply	Delivery Name : EVERSENDAI CONSTRUCTION PRIVATE LIMITED-DLF	P/O No. : PO26002201
Address : Plot No. 3, Flat-B, Chinmayi Apartmebt, Pavender Bharathidasan Salai Mahalakshmi Nagar Madipakkam, Chennai, 600091, TN, India	Address : Survey No 300-2B, 300-2C 301-3, Kottivakkam Village, Survey No 1-5 1-9 Block-7, DLF Downtown Chennai, M/s DLF INFO PARK DEVELOPERS LTD, Thiruvanniyur Village, Velachery Taluk, American International School, Taramani Chennai - 600113 TN IND	P/O Date : 16-04-2026 P/O Rev No. : PO26002201-1 P/O Rev. Date : 16-04-2026 R/O No. : RO26003200 Payment : Net 30 Days Currency : INR Project : 310032405 DLF DT 4&5 AT Taramani - Chennai
Tele : 9786114296	Contact : Dhamodharan	
Fax :	Tel/Mobile : 9962259594	
Contact :	Delivery Date : 08-04-2026 00:00:00	
E-mail : jjboss22@gmail.com	Order Type : Non-Stock	
GST/TRN :		

Please supply in accordance with the instructions hereunder .

S.No	Item Code	Description	Unit	Quantity	Unit Price	Gross Amount	Tax Amount	Total Amount
1	WTR0000002	Borewell Water, Trip, 24000, Ltr	Trip	100.0000	2,300.0000	2,30,000.00	0.00	2,30,000.00
				100.0000		2,30,000.00	0.00	2,30,000.00

Grand Total In Words: Rupees Two Lakh Thirty Thousand Only

Terms and condition:

- 1) Freight: Included up to DLF DT4&5 Taramani, Chennai
- 2) Payment terms : 30 days credit from the date of Invoice submission
- 3) The materials shall be dispatched with DC, Invoice only without those documents the materials will not be unloaded.
- 4) If any quality issue the material shall be replaced at free of cost.
- 5) Delivery : Immediate

General Instructions:

1. Material shall be dispatched with Original for Buyer Invoice , Delivery Challon, Lorry Receipt without which the material will not be unloaded.
2. "As per Section 194Q of the income tax Act, effective from 1st July 2021, We shall deduct TDS as per the Income Tax Act when our transaction for current FY exceeds Rs 50 lac, since our last Two years turnover has exceeded Rs 10 Cr, you are not liable to charge TCS in your invoice."
3. Time is the essence of this Purchase Order/Contract.
4. Goods / services supplied should be in accordance with our technical specifications and quality standards and by original Mill Certificates, warranty, guarantee certificates, MSDS, Batch Certificates or any relevant documents.
5. No substitution of goods is accepted without prior approval from us, and amended by a new purchase order.
6. Any damages or rejected goods should be replaced immediately without additional costs and liabilities to us.
7. For payment, all original should be forwarded to our Purchasing Dept and accompanied by your original D.O and copy of our Purchase Order.
8. Delivery must be effected in accordance with stipulated delivery Date. Unless being amended by us in writing.
9. Our company will not be liable for any goods / services received with signed delivery orders, unless supported by our authorized Purchase Order.
10. Acceptance not given by the supplier within 7 days, it treated as accepted.
11. Jurisdiction: All the disputed arising out of this order will be under Chennai Jurisdiction only.
12. The Supplier shall:
 - (a) give the highest regard to IMS to avoid injury to any person and damage any property;
 - (b) ensure that the management of IMS is an integral and visible part of its work planning and execution process;
 - (c) strive for continuous improvement of its IMS performance;
 - (d) obtain Purchaser's Corporate IMS Policy which understands and implement the applicable content of this policy;
 - (e) follow all applicable requirements of Purchaser's Corporate IMS policy/ IMS Manual;
 - (f) monitor and evaluate its safety performance effectively and to take such actions as appropriate to rectify or improve its overall safety performance;
 - (g) ensure that it complies with all applicable IMS laws and requirements of the Purchaser in force from time to time.

EVERSENDAI

EVERSENDAI CONSTRUCTION PRIVATE LIMITED

Plot No: 1 & 2, The Lords, Block-1, 5th Floor, Thiru-Vi-Ka Industrial Estate, Jawaharlal Nehru Road, Ekkattuthangal, Guindy, Chennai - 600032, TN, IND

Tel: Fax: GST: 33AACCE2174N1ZL

PURCHASE ORDER

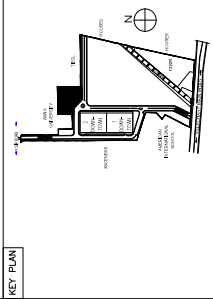
TBA as applicable		
Prepared by	Designation	Prepared date
Valiswaran RAJENDRAN		08-04-2026 17:58:06
Approver	Designation	Approved date
Gopala Subramanian H		09-04-2026 10:19:22
Sridher Arumugam K		09-04-2026 10:42:11
Sivasankar S		09-04-2026 17:41:47
Sundara Vadivel Vaithilingam		09-04-2026 20:23:09
Elangovan T		13-04-2026 14:12:09

*This is computer generated document hence no signature is required. Please reply to acknowledge that this PO has been received.

Annexure-XXXV

Singal Line diagram of SLD

KEY PLAN



REV.	DATE	COMMENTS/UPDATED	DRAWN
R1	16-06-2025	LOCATIONED TO REFLECT ALL THE CHANGES MADE TO APPROVED SHOP DRAWING	S.K
R0	15-12-2024	AS BUILT DRAWING	M.S

REVISIONS

OWNER

DLF
DLF INFO PARK DEVELOPERS (CHENNAI) LTD.

PROJECT TITLE:

DLF DOWNTOWN @ TARAMANI CHENNAI
(1) Town Survey No.15, 19 m Block No.7, Trivramayur Village, Mykore-Triplicane Taluk, Chennai District
(2) Survey No.3002B, 3002C & 3013, ----- in Kolikattam ----- Village, Tamabaram Taluk, Kanchipuram



DESIGN CONSULTANTS :
RSP Design Consultants (India) Pvt Ltd
RSP House, 30, Museum Road, Bangalore-560 001, TN, 2956888 Fax: 25588118
BRANCH AT THIS BLOCK: Q/V/WR/VA TECH-PARK, 1, 8000 INDUSTRIAL ESTATE,
CHENNAI-600 002
Tel: 091-44-23311111 Fax: 091-44-23311111 Email: rspdesign@rspindia.com

MAIN CONTRACTOR:

EVERSENDI
EVERSENDI CONSTRUCTION PRIVATE LTD.
PLOT NO. 1, 2, THE LORDS, BLOCK 1, 5TH FLOOR, JAWAHARLAL NEHRU ROAD,
EKAMUTHANGAL, GUINDY, CHENNAI-600032, TAMILNADU, INDIA
TEL: +91 44 4071 0049 FAX: +91 44 4071 1200
Email: eversendi@india@everend.com

optimal
STRUCTURAL ENGINEERS
216/41 S. GAUTAM NAGAR
NEW DELHI-110049
PH: +91 88600 8046 FAX: 4683259
www.optimalindia.com

MEP CONSULTANT:

Building Engineering, India
15th Floor, Building 5C
DLF Cyber City Phase-II, Gurgaon
T. -91 124-4682700, 4682800

AECOM
ELECTRICAL CONTRACTOR -
HITECH ENGINEERS & CONSULTANTS (P) LTD.
15th Floor, Building 5C
DLF Cyber City Phase-II, Gurgaon, Haryana
TEL: +91 124-4682700
E-Mail: elchitcheer@rediffmail.com

AS BUILT DRAWING-SERVICE BLOCK
DRAWING TITLE:
LIGHTING & POWER DB DETAIL FOR SERVICE BLOCK

DRAWN	CHECKED	DATE	SCALE	REV	SHEET
NAROTAM SHARMA	NAROTAM SHARMA	16-06-2025	1:100	AI	1

DRAWING NO: DLF-ACIM-DT-UT-DR-EL-1031

UTPDBS-2 (POWER DB) LT PLANT ROOM SERVICE BLOCK-WAY TPN (LOC-2ND FLOOR)

INCOMING CABLE FOR INCOMING CABLE SIZE & TYPE REFER MAIN SLD

CKT. NO.	NO. OF WIRE & I/P	SP	NAME OF AREA	NO. OF POINT	LOAD IN WATTS
R1	3x4.0	16A	LT PLANT ROOM	01	1000
R2	3x4.0	20A	LT PLANT ROOM	01	1000
R3	3x4.0	20A	HT PLANT ROOM	01	1000
R4	3x4.0	20A	HT PLANT ROOM	01	1000
R5	3x4.0	20A	HT PLANT ROOM	01	1000
R6	---	16A	SPARE	01	1000
R7	---	16A	SPARE	01	1000
R8	---	16A	SPARE	01	1000
R9	---	16A	SPARE	01	1000
R10	---	16A	SPARE	01	1000
R11	3x4.0	16A	LT PLANT ROOM	02	1000
R12	3x4.0	20A	LT PLANT ROOM	02	1000
R13	3x4.0	20A	HT PLANT ROOM	02	1000
R14	3x4.0	20A	HT PLANT ROOM	02	1000
R15	3x4.0	20A	HT PLANT ROOM	02	1000
R16	---	16A	SPARE	02	1000
R17	---	16A	SPARE	02	1000
R18	---	16A	SPARE	02	1000
R19	---	16A	SPARE	02	1000
R20	---	16A	SPARE	02	1000
R21	3x4.0	16A	HT PLANT ROOM	01	1000
R22	3x4.0	20A	HT PLANT ROOM	02	1000
R23	3x4.0	20A	HT PLANT ROOM	02	1000
R24	3x4.0	20A	HT PLANT ROOM	02	1000
R25	3x4.0	20A	HT PLANT ROOM	02	1000
R26	---	16A	SPARE	01	500
R27	---	16A	SPARE	01	500
R28	---	16A	SPARE	01	500
R29	---	16A	SPARE	01	500
R30	---	16A	SPARE	01	500
R31	---	16A	SPARE	01	500
R32	---	16A	SPARE	01	500
R33	---	16A	SPARE	01	500
R34	---	16A	SPARE	01	500
R35	---	16A	SPARE	01	500
R36	---	16A	SPARE	01	500
R37	---	16A	SPARE	01	500
R38	---	16A	SPARE	01	500
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R173	---	16A	SPARE	01	500
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R181	---	16A	SPARE	01	500
R182	---	16A	SPARE	01	500
R183	---	16A	SPARE	01	500
R184	---	16A	SPARE	01	500
R185	---	16A	SPARE	01	500

Annexure-XXXVIII
Copy of Environmental Clearance



Dr. JAYANTHI. M, I.F.S
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU

3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.

Phone No.044-24359973

Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F. 6645/EC/ 8(b)/689/2020 dated: 22.01.2020

To

M/s. DLF Info Park Developers (Chennai) Limited
Old No.828 & 828A, New No. 268 & 268A,
Sri Ranga, Poonamallee High Road,
Kilpauk,
Chennai-600 010

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed DLF IT Park by M/s. DLF Info Park Developers (Chennai) Limited at Survey No 1/5 & 1/9 of Block 7, Tiruvanmiyur Village, Mylapore Taluk, Chennai District, and SF No 300/2B 300/2C & 301/3 Kottivakkam Village, Tamabaram Taluk, Kanchipuram District, Tamil Nadu - Issued – Regarding.

- Ref: 1. Your application for Terms of Reference dated: 17.07.2018
2. ToR issued by MoEF & CC vide F.No.21-92/2018-IA-III dated: 30.11.2018
3. Proponent submitted EIA report to SEIAA-TN on 11.01.2019
4. Minutes of the 139th SEAC Meeting held on 23.11.2019
5. Proponent reply dated 27.11.2019 & 20.12.2019
6. Minutes of the 142nd SEAC Meeting held on 21.01.2020
7. Minutes of the 367th SEIAA Meeting held on 22.01.2020

This has reference to your application 1st cited, the proposal is for obtaining Environmental Clearance to establish a construction project under Category B and



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7)	Brief description of the project	Construction of "DLF IT park" with 8 Blocks each of G + 23 Floors with Common Basements in three levels; also provided with lawns, greenbelt, neatly paved driveways, parking facilities, etc.
8)	Expected Occupancies (including Visitors)	44372 nos.
9)	Green Belt	16165.2 Sq.m
10)	Parking facilities	Car Parking – 6006 Nos. Two-wheeler Parking - 12012 Nos. Two-wheeler/Four-wheeler Parking facilities will be in the Basements, Podium and on Surface.
11)	UTILITIES-WATER	
	Total Fresh Requirements	2651 KLD
	a)Source from where the water is proposed to be drawn	CMWSSB
	i)Domestic Purposes	1811 KLD
	ii) Toilet Flushing(Recycled Water)	840KLD
	iii) Green belt development/gardening (Recycled Water)	57.4 KLD
	iv) OSR(Recycled Water)	35.6 KLD
	v) HVAC (Recycled Water)	1500 KLD [705 KLD Recycled Water & 795 KLD Fresh water]
12)	Waste Water	
	i)Sewage	Total grey water generated – 864 KLD Total sewage generated - 840 KLD
	ii) Details of Treatment	Black Water (Sewage) Treatment - 840 KLD Modular Type (STP – 420 KLD in the First Phase development +



		500 KLD in the second Phase development), In-situ, MBR based STP Grey Water Treatment - 864 KLD Modular Type (STP – 450 KLD in the First Phase development+500 KLD in the second Phase development)
	iii) Mode of Disposal with quantity	Treated Sewage – 798 KLD, 93 KLD for Green Belt and OSR, 20 KLD for Toilet Flushing, 705KLD for HVAC Treated Grey water sewage- 820KLD for Toilet flushing Total Treated Wastewater (Black+Grey): 1618 KLD The project is Zero Water Discharge
13)	SOLID WASTE	
	I) Municipal solid Waste	6.656MT/Day
	i) Bio degradable – 2.66 MT/day	Organic Waste Converter in the Phase 1 Development and Bio-Methanation in the Phase -2 Development
	ii) Non Bio degradable – 3.99 MT/day	Disposed to Authorized Recyclers
	iii) STP Sludge – 540 Kg/ day	Manure for gardening
14)	POWER REQUIREMENT	
	i) Electricity Board	26.36 MVA from TANGEDCO
	ii) D.G. Set	DG sets of 20 Nos. 2000 KVA
	iii) Height of Stack above the tallest Building	Stack height of 6 m above Roof Top
15)	Project Cost	Rs. 2470 Crores
16)	EMP Cost	For Operation Phase: Capital Cost: Rs. 10.85 Crores



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	Operational Cost: Rs.1.01 Crores/yr
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Annexure 2- Affidavit

The Proponent has furnished affidavit in hundred Rupees stamp paper attested by the Notary stating that

Commitment towards Fresh Water Requirement:

The freshwater requirement to the tune of 1831 KLD for the Operational Scenario post completion of the project shall be sourced from CMWSSB with prior approval from Competent Authority. Based on the above Commitment, I hereby undertake and commit that required water for the operation period will be obtained from the above authority, before obtaining completion certificate from the competent authority.

Commitment towards Disposal of treated wastewater:

Grey water and the sewage generated from the IT Park development will be treated separately in the in-house STPs. Treated Grey water of 820 KLD will be utilized for flushing. Treated sewage generated from the IT Park Development will be 798 KLD out of which 20 KLD will be used in addition to 820 KLD treated Grey water for flushing, 93 KLD will be used for greenbelt and 695 KLD will be used for HVAC. STP shall be based on MBR technology.

Commitment towards Disposal of Solid Waste:

The total quantity of solid waste generated from the IT Park Development is 6.65 MT/Day of which 2.66 MT/Day bio-degradable wastes will be treated through Organic Waste Converter and Bio-Methanation plant and 3.99 MT/Day of non-biodegradable wastes will be segregated at site and handed over to authorized recyclers.

Commitment towards on-site Status:

I commit to SEIAA that we have not started any construction activity at site and shall carry forward the same upon securing the environmental clearance from SEIAA-Tamil Nadu.

Commitment towards CER:

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Further, I am furnishing the commitment on CER activity and related fund allocation of INR 12.34 Crores [Phase-1@ Rs.5.17 Crores and Phase -2 @ Rs.7.17 Crores] as Capital Outlay towards stipulated activities as per MOEF & CC OM dated: 1.05.2018.

Commitment towards Flood Inundation:

I commit to SEIAA that the project development shall be in strict compliance with the terms & conditions issued by Chief Engineer, PWD

Commitment towards Structural Stability

The proposed development structure is designed by a qualified/ licensed, Surveyor / Structural Engineer and I assure you of adhering to the recommendations in total without any deviations.

Commitment towards Unconditional access to MRTS officials

I commit the proposed project will give unconditional access to MRTS officials for inspection, maintenance and other works related to the Railway structure and Civil structures in MRTS area

Commitment signed by me on Nineteenth day of December 2019, as an Authorized signatory of the project proponent before the SEIAA, Tamil Nadu.

The project activity is covered in 8(a) of the Schedule and is of B2 category. It does not require Public Consultation as per Para 7 III Stage (3) (i) (d) of EIA Notification, 2006.

The Authority after consideration all the requisite documents with status and data and based on SEAC appraisal and recommendations for issue of Environmental Clearance in its 142nd meeting held on 21.01.2020, SEIAA placed the proposal in the 367th SEIAA meeting held on 22.01.2020 hereby conveyed Environmental Clearance along with the conditions containing four parts namely

Part - A –Common conditions applicable for Pre-construction, Construction and Operational Phases

Part - B –Specific Conditions – Pre construction phase

Part - C - Specific Conditions – Construction phase

Part – D - Specific Conditions – Operational Phase/Post constructional



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Phase / Entire life of the project.

Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions stipulated below:

Part - A – Common conditions applicable for Pre-construction, Construction and Operational Phases:

1. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
2. The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.



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7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules , 2010 framed under MMDR Act 1957,National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.
12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
13. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.



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14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
15. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.



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21. The EMP cost of Rs. 338 Lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
22. The Project Proponent has to provide rain water harvesting 19 pits and the rainwater collection sump of capacity 162 cu.m in order to recover and reuse the rain water during normal rains as reported
23. The project activity should not cause any disturbance & deterioration of the local bio diversity.
24. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
25. All the assessed flora & fauna should be conserved and protected.
26. The project proponent shall adopt the Bio-methanation technology for treatment & disposal of the bio-degradable waste will be generated.
27. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
28. The proponent shall furnish the permission/ NOC of water supply from the CMWSSB before obtaining CTO from TNPCB.
29. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
30. The safety measures proposed in the report should be strictly followed.
31. EC is issued to the land excluding the area covered under MRTS right of way and its future expansion if any in the project site.
32. No development activities shall be undertaken by the proponent in the area covered under MRTS right of way.
33. The project proponent has to maintain Zero Liquid discharge (ZLD) as reported.
34. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining



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committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.

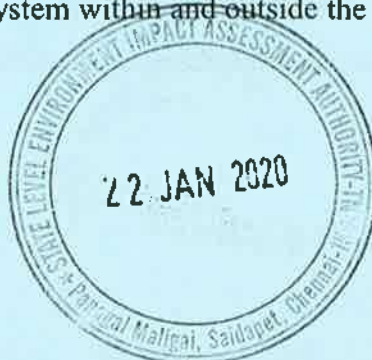
Part - B – Specific Conditions – Pre construction phase:

1. The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.
2. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
3. A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.
4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc as per National Building Code including protection measures from lightning etc before commencement of the work.
5. All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
6. Design of buildings should be in conformity with the Seismic Zone Classifications.
7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
8. No construction activity of any kind shall be taken up in the OSR area.
9. Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.



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10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
12. The project proponent shall ensure the entry of basement shall be above maximum flood level.
13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
 - i. Location of STP, compost system, underground sewer line.
 - ii. Pipe Line conveying the treated effluent for green belt development.
 - iii. Pipe Line conveying the treated effluent for toilet flushing
 - iv. Water supply pipeline
 - v. Gas supply pipe line, if proposed
 - vi. Telephone cable
 - vii. Power cable
 - viii. Storm water drains, and
 - ix. Rain water harvesting system, etc., and it shall be made available to the owners
14. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
15. The present land use surrounding the project site shall not be disturbed at any point of time.
16. The green belt area shall be planted with indigenous native trees.
17. Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.
18. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.



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19. The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.
20. There should be Fire fighting plan and all required safety plan.
21. Regular fire drills should be held to create awareness among owners/ residents.

Part - C - Specific Conditions – Construction phase:

1. Construction Schedule:

- i) The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.

2. Labour Welfare:

- i) All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
- ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.
- iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.

3. Water Supply:

- i) The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
- ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile



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toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.
- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.

4. Solid Waste Management:

- i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.
- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.
- iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.

5. Top Soil Management:

- i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.



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6. Construction Debris disposal:

- i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.
- ii) Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/ lake/ stream etc.

7. Diesel Generator sets:

- i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.
- ii) The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.

8. Air & Noise Pollution Control:

- i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCC/CPCB. The vehicles should be operated only during non-peak hours.
- ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCC, both during day and night. Incremental



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pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.

- iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per CMDA norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be met before commissioning.
- iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.
- v) The project proponent should ensure that adequate Air Pollution Control measures shall be provided from buses and other vehicles, which will be entering the bus terminal. Further, water sprinkling system shall be provided and same shall be used at regular interval to control the dust emission within the project site.

9. Building material:

- i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.
- ii) Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.
- iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.

10. Storm Water Drainage:

- i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.
- ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.



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11. Energy Conservation Measures:

- i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.
- iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.
- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

12. Fire Safety:

- i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.
- ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency shall be made.

13. Green Belt Development:

- i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the



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recommendation of the Forest department well before the project is completed.

- ii) The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. If possible Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot with minimum of 3mt width all along the periphery and in between blocks in an organized manner.
- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.
- iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval.

14. Sewage Treatment Plant:

- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.
- ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.



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16. Building Safety:

Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.

Part – D - Specific Conditions – Operational Phase/Post constructional phase/Entire life of the project:

1. There should be Fire fighting plan and all required safety plan.
2. Regular fire drills should be held to create awareness among owners/ residents.
3. House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
5. The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.
6. The project proponent shall furnish the flood NOC from the PWD before obtaining CTO from TNPCB.
7. Solar energy saving shall be increased to atleast 10% of total energy utilization.
8. The project proponent shall spent the CER amount for Rs. 12.35 Crores (0.5% of the project cost) to carry out for DD favoring Environmental Management Authority of Tamil Nadu" (EMAT) and the said amount shall be utilized for the de-silting and beautification of water bodies in and around project site before applying for CTO from TNPCB.
9. The EMP cost of Rs. 11.86 Crores shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually
10. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.



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11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
12. The Project proponent should discuss with the wet land Authority, Tamil Nadu Forest Department, PWD and support lake restoration cum improvement, awareness and conservation programs.
13. The project activities should in no way disturb the manmade structures.
14. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
15. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
16. Raw water quality to be checked for portability and if necessary RO plant shall be provided.
17. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
18. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
19. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.



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20. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
21. It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc
22. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
23. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
24. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
25. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
26. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
27. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
28. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
29. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.



Jagan
MEMBER SECRETARY
SEIAA-TN

30. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
31. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
32. The Environmental Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be deemed to be revoked/ cancelled.



MEMBER SECRETARY
SEIAA-TN

Copy to:

1. The Principal Secretary to Government, Environment & Forests Dept,
Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ),
34, HEPC Building, 1st& 2nd Floor, Cathedral Garden Road, Nungambakkam,
Chennai - 34.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The Commissioner, Greater Chennai Corporation, Rippon Building, Chennai District
7. Stock File.



