



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जल वायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
क्षेत्रीय कार्यालय
REGIONAL OFFICE
Ground Floor, East Wing, New Secretariat Building
Civil Lines, Nagpur - 440001
E-mail: apccfcentral-ngp-mef@gov.in



F. No. EC-1891/RON/2021-NGP /13968

Dated: 28.11.2024

To

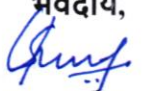
The Member Secretary, (SEIAA), Maharashtra
Room No. 217, Second Floor,
Mantralaya Annex, Madam Cama Road, Mumbai-32.
psec.env@maharashtra.gov.in

Subject: Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC)/ Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210, Dist. Raigad, Maharashtra. -Issue of Certified Compliance Report- Reg.

Sir,

This has reference to issue of CCR for the above project. In this regard, the above said project was inspected by this office. After the site visit and review of additional documents submitted, the implementation of environmental safeguards status in the project is prepared. Copy of the Inspection report is enclosed. **PP should ensure the compliance on the observations made in the report.**

This issues with the approval of Competent Authority.

भवदीय,

सुरेन्द्र गुगलौत
वैज्ञानिक-ई

Encl: as above

Copy to

1. Shri. Satish Bhangale, Engineer 'D' Civil, Engineering Services, 2nd floor, Khanolkar Sodhika, ACTREC - Tata Memorial Centre Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai 41021
Email id: sbhangale@actrec.gov.in
2. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022. Email: ms@mpcb.gov.in
3. The District Collector, District Collector Office, Near Hirakot Lake, Tahasil-Alibag, District-Raigad, Pin - 402201, Maharashtra. collector.raigad@maharashtra.gov.in
4. The Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbag Road, New Delhi- 3. Email: moefcc-monitoring@gov.in

GOVERNMENT OF INDIA
Ministry of Environment, Forest and Climate Change
Regional Office, Nagpur

INSPECTION REPORT- Part-I
Basic Information

1.	Project type	Cancer Hospital Building Construction
2.	Name of the project	Advanced Centre for Treatment, Research & Education . in Cancer (ACTREC) / Tata Memorial Centre (TMC)/ Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210, Dist. Raigad, Maharashtra.
3.	Clearance Letter and date	1) No: SEAC 2013/CR-101/TC-1 dated 08.04.2013 2) No. SEAC 2213/CR 325/TC II dated 12.01.2016 3) No. SEIAA-EC-0000000084 dated 04.05.2017. 4) No. SEIAA-EC-0000002065 dated 07.11.2019 5) No. EC23B039MH160026 dated 23.02.2023 6) No. EC24B039MH110605 dated 06.02.2024
4.	Location District State Location Latitudes Longitudes	Navi Mumbai Maharashtra Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai 19 ⁰ 04'03.76" N 73 ⁰ 0.3'49.88" E
5.	Address for correspondence	Shri. Satish Bhangale, Engineer 'D' Civil Engineering Services, 2nd floor, Khanolkar Sodhika, ACTREC - Tata Memorial Centre Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai 410210 Email id: sbhangale@actrec.gov.in
6.	Salient Features of the Project	Initial EC was granted by SEIAA in 2013 for construction project in plot area of 2,40,007.495 sqm with total built up area of 22,750 sqm. Subsequently EC was obtained in 2016, 2017, 2019,2023 and latest EC was granted by SEIAA in 2024 for plot area of 2,40,007.49 Sqm. with total built up area of 3,15,165.78 Sqm. The project consists of existing buildings 18 no. & proposed 8 no. in which new addition of Mortuary Room, Multipurpose Hall, Hostel

		building, MLCP 1, Substation for Hostel Building, Substation (Asha Nivas), additional four floors of Shantilal Sanghavi, New Animal House and future buildings Seventeen buildings are completed and partly occupied. The project is under construction phase & approximately 20 % of work completed.
7.	Break-up of the project area a) Submergence area: Forest and Non-Forest b) Others	Non-Forest
8.	Allocation made for environment management plan. with item wise and year wise break up	Operation Phase Capital cost Rs. 4800 Lakh & O & M cost Rs. 243 Lakh has been earmarked for Environmental Management.
9.	Date of Commencement	March 2024
10.	Details of earlier site visits by the Ministry	The project was earlier inspected on 08.12.2022 and CCR issued.
11.	Date of Visit	The project was inspected on 16.10.2024. During the visit Shri. Satish Bhangale, Engineer D Civil, was present
12.	Proposal	Reported that due to proposed building at ACTREC campus, pp proposed to Amendment & expansion in master layout plan and applied for EC. Hence, requested for CCR.



Fig: Google Image

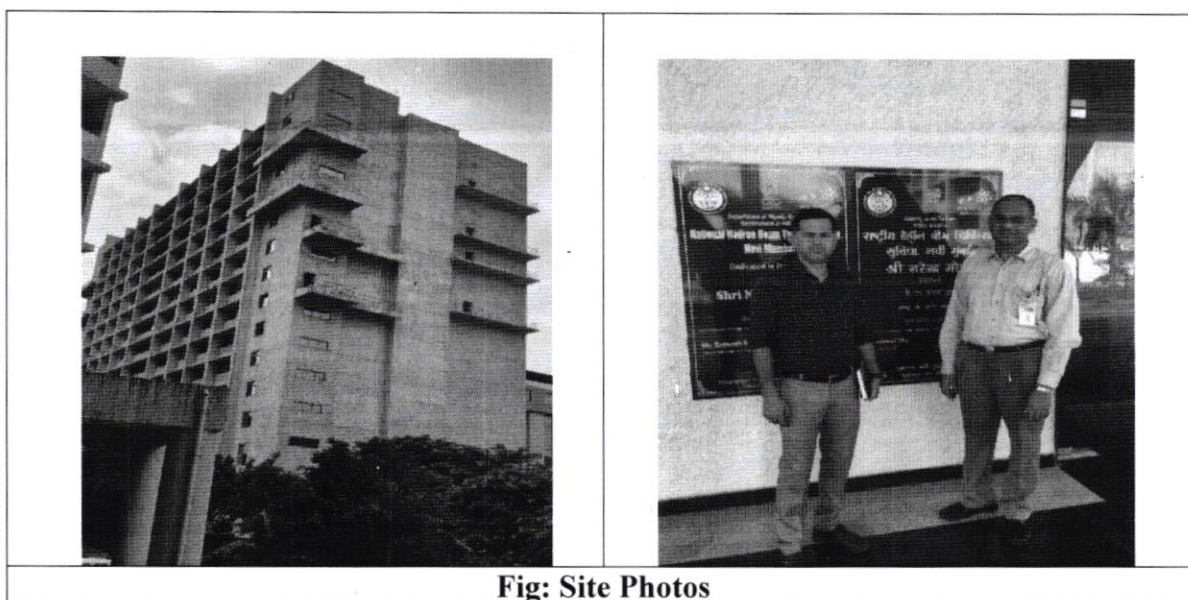


Fig: Site Photos

Part-II COMPLIANCE STATUS IN DETAIL FOR EC EC24B039MH110605 Dated 06.02.2024

SEAC conditions

SEAC has stipulated certain conditions, and their compliance is reviewed by SEIAA before granting the Environmental Clearance (EC). Therefore, the compliance status of SEAC conditions is not included in this report.

SL. No.	SEIAA Conditions	Compliance status
1.	PP has provided mandatory RG area of 24000.7 sqm on mother earth without any construction local planning authority to ensure the compliance of the same.	Complied. PP has submitted Landscape development plan. As per the plan 25,941.74 sqm has been earmarked for the landscape/ plantations.
2.	PP to keep open space unpaved so as to permeability of water. However, whenever paving is deemed necessary, PP to provide grass pavers of suitable types & strength to increase the water permissible area as well to allow effective fire tender movement	Agreed by PP
3.	PP to achieve at list 5% of total energy requirement from the solar/other renewable sources.	
4.	PP shall comply with standard EC conditions mentioned in the office memorandum issued by MoEF &	Complied. It was noted that PP has taken various measures such as tall barricade all along the site for containment of dust and

	CC vide F. No. 22-34/2018-IA III dt. 04.01.2019.	noise, septic tank for the treatment of sewage from construction site, regular Ambient air quality and noise level monitoring etc., as per the conditions.
5.	SEIAA after deliberation decided to grant EC for FSI- 2,40,0007.06 sq.m, Non FSI – 75,158.73 sq.m total BUA – 3,15,165.79 sq.m (Plan approval No. CIDCO/BP-15162-TPO/(NM)/2023/4992, dated. 14.09.2023) (Restricted as per approval)	Agreed by PP

Construction Phase		
I.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	Complied. The project is in construction phase and reported that the excavated earth material partly reused on site for backfilling & leveling.
II.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	PP has agreed to dispose muck, if any, at the designated site with the permission of local Authority. PP has submitted an undertaking on the above.
III.	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	No hazardous wastes are expected from the project as no DG set is used for construction.
IV.	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Adequate drinking water and sanitary facilities have been provided for construction workers at the site.
V.	Arrangement shall be made that waste water and storm water do not get mixed.	Agreed by the PP. PP has submitted an undertaking in this regard.

VI.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Complied. Reported that the water demand during construction is reduced by use of pre-mixed concrete, curing agents and other best practices.
VII.	The ground water level and its quality should be monitored regularly in consultation with Ground water authority.	PP informed that neither there is bore well nor any ground water drawl for construction purpose, hence the ground water analysis was not done.
VIII.	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	
IX.	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Agreed by the PP. PP has submitted an undertaking in this regard.
X.	The energy conservation building code shall be strictly adhered to.	Reported that the Energy Conservation Building Code will be strictly adhered to. PP has submitted an undertaking in this regard.
XI.	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Reported that the top soil was less & not fertile and hence disposed at the designated site with the permission authority.
XII.	Additional soil and levelling of the proposed site shall be generated within the sited (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied. According to PP, there is no disturbance to the Natural drainage system, no additional soil is required for land leveling.
XIII.	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Complied. PP carried out analysis of Soil samples from site and no toxic contaminants noted. As there is no ground water source at the site and in the nearby by vicinity, no ground water samples were analyzed. Copy of the report is enclosed as Annexure-I.
XIV.	PP to strictly adhere to all the conditions mentioned in Maharashtra (urban area) protection and preservation of trees Act, 1975 as amended during the validity of Environment Clearance.	Reported that no tree cutting involved at the project.

XV.	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	No DG is used for construction phase.
XVI.	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the groundwater.	There is no hazardous waste generation, the construction waste if any will be disposed at the designated site with the permission of local Authority. PP has submitted an undertaking in this regard.
XVII.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Complied. Noted that the vehicles having valid PUC are engaged for the transportation of materials.
VIII.	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	Complied. PP carry out the Ambient Air and Noise level monitoring regularly at the site during construction through MOEFCC recognized laboratory and copy of the latest monitoring report is enclosed at Annexure - II . It is noted that the parameters are within the limits.
XIX.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction 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. Use low Sulphur diesel is preferred. The location of the DG sets may be decided with in consultation	Agreed by the PP. PP has submitted an undertaking in this regard.

	with Maharashtra pollution control board.	
XX.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase; so as to avoid disturbance to the surroundings by a separate environment cell/designated person.	Complied. Reported that PP has set up an Environmental Management Cell which is carrying out regular supervision.

i.	The solid waste generated should be properly collected and segregated. b). Wet waste should be treated by organic waste converted and treated waste (manure) should be utilize in the existing premises for gardening and no waste garbage will be disposed outside the premises. C). Dry/inert solid waste should be disposed of the approved site for land filling after recovering recyclable material.	Complied. Solid waste generated is properly collected and segregated. Wet garbage is treated in OWC and Dry/inert solid waste is handed over to local body. PP has provided OWC 2358 kg/day for completed buildings.
ii.	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016	No E- waste will be generated at project. If any will be disposed off as per E – waste (management and handling) Rules, 2016.
iii.	The installation of Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ refused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should e done. Discharge of unused treated effluent shall conform to the norms and standards of the Maharashtra Pollution Control Board. Necessary measures should be made to mitigate the odor problem from STP. b). PP to give 100% treatment to sewage/Liquid waste and explore the possibility to recycle at least 50% of water. Local authority should ensure this.	PP has installed STP having capacity: 600 KLD STP installed however as per the current needs of campus 300 KLD STP is operational. 2 Nos 1KLD ETP plant are also operational.
i.	Project proponent shall ensure the compliance of STP, MSW disposal facility, green belt development prior to occupation of the building. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made	

	functional including water requirement.	
ii.	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only ensuring sustained availability of drinking water, connectivity of the sewer line to the project site and proper disposal of treated water as per environmental norms.	Relates to local authority.
iii.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized	Complied. Entry & Exit to the project are located in such way that it won't affect traffic on the adjoining roads. Also sufficient parking space has been provided for completed buildings.
iv.	PP to provide adequate electric charging points for electric vehicles (EVs)	Agreed by the PP.
v.	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Complied. PP has submitted green belt development plan, according to plan, PP allocating an area of 25.207.44 sqm for green belt development with required trees of 7042 Nos of native species. The green belt development is currently in progress, and upon project completion, the PP has agreed to plant additional trees as per (EC) conditions.
vi.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. Reported that the Environmental Management Cell is carrying out regular supervision.
vii.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes.	As per the documents submitted by the PP, Operation Phase Capital cost Rs. 4800 Lakh & O & M cost Rs. 243 Lakh has been earmarked for Environmental Management.
viii.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of	Complied. PP has submitted copy of the advertisement.

	clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in .	
ix.	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, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	PP has uploaded EC, Compliance report on their company website https://actrec.gov.in/home

General EC Conditions		
i.	PP has to strictly abide by the conditions stipulated by SEAC & SEIAA.	Complied. It was noted that PP has taken various measures such as tall barricade all along the site for containment of dust and noise, septic tank for the treatment of sewage from construction site, regular Ambient air quality and noise level monitoring etc., as per the conditions stipulated by the SEAC & SEIAA.
ii.	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	PP has obtained Consent to Establish from MPCB vide letter Format 1.0/ BO/ CAC-Cell/ UAN No. 0000026705/ CAC – 1801000090 Dated: 03.01.2018. 2 nd CTE vide No. Format 1.0/BO/JD(WPC)/UANNo.00000054179/CE/CC -2002000186 dated: 05.02.2020. Revalidation of CTE vide No: - Format1.0/CAC/UAN No. MPCBConsent-0000172445/CR/2401001819 Dated 15.01.2024 valid up to 04.04.2026.
iii.	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project	Noted from the Google imagery that the construction activity was commenced in Mar 2024 only, i.e after the grant of EC in April 2013.

	proponent if it was found that construction of the project has been started without obtaining environmental clearance.	
iv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied. PP has submitted six monthly compliance report.
v.	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 along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied. PP has submitted environmental statement.

Part-III

Conclusion: After the site visit and review of the additional documents submitted, the compliance status of environmental safeguards for the project has been prepared.

PP should ensure regular monitoring the ambient air quality and noise level and carry out water sprinkling during all dust potential activities. PP should ensure timely submission of the Environment Statement and six monthly compliance report.

PP should ensure compliances of the conditions on green belt development, solar energy utilization, usage of water conservation fixtures etc, as per the undertaking submitted.



(Surender Gugloth)
Scientist-E

(सुरेन्दर गुगलोथ)

(SURENDER GUGLOTH)

वैज्ञानिक 'ई' / Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
क्षेत्रीय कार्यालय - रा. ओ., नागपुर



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"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
• Mobile : 7249867318, 8378018710 • Tel. : 020 - 25460202, 25460203. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

TEST CERTIFICATE

Page 1 of 2
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS M/s Tata Memorial Centre Actrec. Plot No. 1 & 2, Sector 22, Kharghar, Tehsil - Panvel, District - Raigad.	ULR NO.	TC7064240000005260
	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/AA/242
	SAMPLING DATE	11&12/07/2024
	SAMPLE RECEIPT DATE	13/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	17/07/2024
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	Near Main Gate Area

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULTS	NAAQS LIMITS	TEST METHOD REFERENCE
01	Date of Sampling	DD/MM/YY	11&12/07/2024		
02	Test Location		Near Main Gate Area		
03	Start Time of Sampling	Hrs.	12:35		
04	Temperature (Max./Min)	Deg C	29/21		
05	Relative Humidity	% RH	68		
06	Sampling Duration	Hrs.	24		
07	Particulate Matter (Size less than 10µm) PM ₁₀ (24 Hrs.)	µg/m ³	70.16	100	IS 5182(part 23):2006, RA 2022
08	Particulate Matter (Size less than 2.5µm) PM _{2.5} (24 Hrs.)	µg/m ³	35.81	60	IS 5182(part 24):2019
09	Sulphur Dioxide (SO ₂) (24 Hrs.)	µg/m ³	11.80	80	IS 5182(part 2):2023
10	Nitrogen Dioxide (NO ₂) (24 Hrs.)	µg/m ³	19.64	80	IS 5182(part 6):2006 RA 2022
11	Lead (Pb) (24 Hrs.)	µg/m ³	BDL (<0.05)	1.0	IS 5182 (Part 22):2004, RA 2019
12	Ammonia (NH ₃) (24 Hrs.)	µg/m ³	BDL (<30)	400	IS 5182(part 25):2018
13	Ozone (O ₃) (8 Hrs.)	µg/m ³	BDL (<5)	100	IS 5182(part 9):1974, RA 2019
14	Arsenic (As) (24 Hrs.)	ng/m ³	BDL (<3)	06	HS/NABL/AIR/22
15	Nickel (Ni) (24 Hrs.)	ng/m ³	BDL (<7)	20	IS 5182(part 26):2020

DISCLAIMER:

- Sample will be retained only for 15 days.
- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of lab.



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Equipment Used: - Fine Dust Sampler, Sr.No.4709 (Polltech Make)

Date of Calibration: -20/02/2024 **Next Calibration due:** -19/02/2025

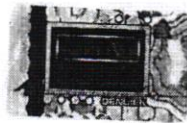
REMARKS/OBSERVATIONS:

NAAQS: - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

BDL-Below Detectable Level

For HORIZON SERVICES



(AUTHORIZED SIGNATORY)

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

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TEST CERTIFICATE

Page 1 of 1

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS M/s Tata Memorial Centre Actrec. Plot No. 1 & 2, Sector 22, Kharghar, Tehsil – Panvel, District – Raigad.	REPORT NO.	HS/LAB/AA/05260
	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/AA/242
	SAMPLING DATE	11&12/07/2024
	SAMPLE RECEIPT DATE	13/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	17/07/2024
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	Near Main Gate Area

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULTS	NAAQS LIMITS	TEST METHOD REFERENCE
01	Date of Sampling	DD/MM/YY	11&12/07/2024		
02	Test Location		Near Main Gate Area		
03	Start Time of Sampling	Hrs.	12:35		
04	Temperature (Max./Min)	Deg C	29/21		
05	Relative Humidity	% RH	68		
06	Sampling Duration	Hrs.	24		
07	Carbon Monoxide (CO) (8 Hrs.)	mg/m ³	0.219	2.0	IS 5182 (Part 10):1999 RA 2019
08	Benzene (C ₆ H ₆) (24 Hrs.)	µg/m ³	BDL (<4)	05	IS 5182 (Part 11):2006
09	Benzo(a)Pyrene (BaP) Particulate phase only (24 Hrs.)	ng/m ³	BDL (<0.5)	01	IS 5182 (Part 12):2004

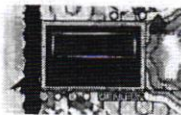
REMARKS/OBSERVATIONS:

NAAQS: - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

BDL-Below Detectable Level

For HORIZON SERVICES



MANISHA NARGOLKAR
(Lab Incharge)

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



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TEST CERTIFICATE

Page 1 of 2

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	ULR NO.	TC7064240000005261
M/s Tata Memorial Centre Actrec. Plot No. 1 & 2, Sector 22, Kharghar, Tehsil – Panvel, District – Raigad.	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/AA/242
	SAMPLING DATE	11&12/07/2024
	SAMPLE RECEIPT DATE	13/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	17/07/2024
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	Near HWCC Near RRS Building

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULTS	NAAQS LIMITS	TEST METHOD REFERENCE
01	Date of Sampling	DD/MM/YY	11&12/07/2024		
02	Test Location		Near HWCC Near RRS Building		
03	Start Time of Sampling	Hrs.	12:20		
04	Temperature (Max./Min)	Deg C	29/21		
05	Relative Humidity	% RH	68		
06	Sampling Duration	Hrs.	24		
07	Particulate Matter (Size less than 10µm) PM ₁₀ (24 Hrs.)	µg/m ³	65.29	100	IS 5182(part 23):2006, RA 2022
08	Particulate Matter (Size less than 2.5µm) PM _{2.5} (24 Hrs.)	µg/m ³	32.19	60	IS 5182(part 24):2019
09	Sulphur Dioxide (SO ₂) (24 Hrs.)	µg/m ³	11.80	80	IS 5182(part 2):2023
10	Nitrogen Dioxide (NO ₂) (24 Hrs.)	µg/m ³	14.26	80	IS 5182(part 6):2006 RA 2022
11	Lead (Pb) (24 Hrs.)	µg/m ³	BDL (<0.05)	1.0	IS 5182 (Part 22):2004, RA 2019
12	Ammonia (NH ₃) (24 Hrs.)	µg/m ³	BDL (<30)	400	IS 5182(part 25):2018
13	Ozone (O ₃) (8 Hrs.)	µg/m ³	BDL (<5)	100	IS 5182(part 9):1974, RA 2019
14	Arsenic (As) (24 Hrs)	ng/m ³	BDL (<3)	06	HS/NABL/AIR/22
15	Nickel (Ni) (24 Hrs)	ng/m ³	BDL (<7)	20	IS 5182(part 26):2020

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Page 2 of 2

Equipment Used: - Fine Dust Sampler, Sr.No.20310 (Polltech Make)
Date of Calibration: -20/02/2024 Next Calibration due: -19/02/2025

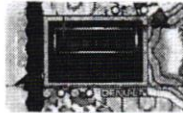
REMARKS/OBSERVATIONS: -

NAAQS: - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

BDL-Below Detectable Level

For HORIZON SERVICES



M. N. Agarwal
(AUTHORIZED SIGNATORY)

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

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS M/s Tata Memorial Centre Actrec. Plot No. 1 & 2, Sector 22, Kharghar, Tehsil – Panvel, District – Raigad.	REPORT NO.	HS/LAB/AA/05261
	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/AA/242
	SAMPLING DATE	11&12/07/2024
	SAMPLE RECEIPT DATE	13/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	17/07/2024
	SAMPLING REF. / SOP NO.	HS/NABL/Air/14

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Air	Horizon Services	Plastic Bottles and Bags	--	Near HWCC Near RRS Building

RESULTS OF ANALYSIS

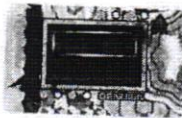
SR. NO.	DESCRIPTION	UNIT	RESULTS	NAAQS LIMITS	TEST METHOD REFERENCE
01	Date of Sampling	DD/MM/YY	11&12/07/2024		
02	Test Location		Near HWCC Near RRS Building		
03	Start Time of Sampling	Hrs.	12:20		
04	Temperature (Max./Min)	Deg C	29/21		
05	Relative Humidity	% RH	68		
06	Sampling Duration	Hrs.	24		
07	Carbon Monoxide (CO) (8 Hrs.)	mg/m ³	0.219	2.0	IS 5182 (Part 10):1999 RA 2019
08	Benzene (C ₆ H ₆) (24 Hrs)	µg/m ³	BDL (<4)	05	IS 5182 (Part 11):2006
09	Benzo(a)Pyrene (BaP) Particulate phase only (24 Hrs)	ng/m ³	BDL (<0.5)	01	IS 5182 (Part 12):2004

REMARKS/OBSERVATIONS: -

NAAQS: - National Ambient Air Quality Standards

Limits as per NAAQS Monitoring & Analysis Guidelines Volume-I (2009)

BDL-Below Detectable Level



For HORIZON SERVICES

Manisha Nargolkar

MANISHA NARGOLKAR
(Lab Incharge)

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



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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	ULR NO.	TC7064240000005262
M/s Tata Memorial Centre Actrec. Plot No. 1 & 2, Sector 22, Kharghar, Tehsil – Panvel, District – Raigad.	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/AA/242
	SAMPLING DATE	12/07/2024
	SAMPLE RECEIPT DATE	13/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	17/07/2024
	SAMPLING REF. / SOP NO.	HS/NABL/AIR/15

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Stack Emission	Horizon Services	Plastic Bottles & Bags	--	D.G. Set 1 (2000 KVA)

RESULTS

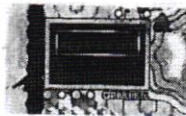
SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	TEST METHOD REFERENCE
01	DATE OF SAMPLING	DD/MM/YY	12/07/2024		
02	TEST LOCATION		D.G. Set 1 (2000 KVA)		
03	TIME OF SAMPLING (00.00)	Hrs	12:00		
04	MATERIAL OF STACK		MS		
05	STACK HEIGHT FROM G.L.	Mtr	6.096		
06	TYPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg C	192		
08	DIFFERENTIAL PRESSURE	mm WG	4.3		
09	VELOCITY	M/Sec	9.14		
10	DIAMETER OF STACK	M	0.1016		
11	STACK AREA	M ²	0.0081		
12	GAS VOLUME	NM ³ /Hr	170.95		
13	PARTICULATE MATTER	mg/NM ³	52.17	150	IS 11255 (Part 1): 1985, RA 2019
14	SO ₂	mg/NM ³	86.34	As Per Consent	IS 11255 (Part 2): 1985, RA 2019
		kg/day	0.35		

Equipment Used: -1) Stack Monitoring Kit, Sr.No. 07/2018 (ETCL model)

Date of Calibration: -07/08/2023 Next Calibration due: - 06/08/2024

REMARK/OBSERVATIONS:

SPM results are well within the limits prescribed by MPCB.



For HORIZON SERVICES

Murugan
(AUTHORIZED SIGNATORY)

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

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Page 1 of 1

HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS M/s Tata Memorial Centre Actrec. Plot No. 1 & 2, Sector 22, Kharghar, Tehsil - Panvel, District - Raigad.	REPORT NO.	HS/LAB/AA/05263
	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/AA/242
	SAMPLING DATE	11/07/2024
	SAMPLE RECEIPT DATE	12/07/2024
	START DATE OF ANALYSIS	--
	END DATE OF ANALYSIS	--
	SAMPLING REF. / SOP NO.	HS/LAB/NABL/Amb-Noise/01

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Ambient Noise	Horizon Services	--	--	--

RESULTS (DAY TIME)

SR. NO.	DESCRIPTION	UNIT	READINGS	LIMITS
	TEST LOCATIONS (12:45 Hrs.)			
01	Near Main Gate Area	dB(A)	58.5	75
02	Near HWCC Near RRS Building	dB(A)	68.7	75

Instrument Used: Digital Sound Level Meter (N43179)

Make: HTC Instruments

Calibration Date: 07/08/2023 **Next Calibration Due:** 06/08/2024

For HORIZON SERVICES



MANISHA NARGOLKAR
(Lab Incharge)

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



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Page 1 of 1
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	ULR NO	TC7064240000005389
M/s. TATA MEMORIAL CENTRE ACTREC Plot No.1&2 Sector 22, Kharghar Tensil-Panvel, District-Raigad.	REPORT DATE	18/07/2024
	LAB REFERENCE NO	HS/LAB/WA/0462
	SAMPLING DATE	12/07/2024
	SAMPLE RECIEPT DATE	12/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	18/07/2024
	SAMPLING REF./SOP NO	HS/NABL/QC/02

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Wastewater sample	Horizon Services	Plastic bottle – 1000ml	Treated	STP

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	MPCB LIMITS	TEST METHOD REFERENCE
01	pH	---	7.85	5.5-8.5	APHA 24 th Ed 2023, 4500-H*B
02	Total Suspended Solids	mg/lit	34.00	< 100.00	APHA 24 th Ed 2023, 2540 D
03	Chemical Oxygen Demand	mg/lit	85.00	< 250.00	APHA 24 th Ed 2023, 5220- C,
04	BOD 3 days at 27° C	mg/lit	23.60	< 30.00	IS 3025 (P 44) RA 2023



For HORIZON SERVICES
Manoj Kumar
(AUTHORISED SIGNATORY)

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

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HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	ULR NO	TC7064240000005390
M/s. TATA MEMORIAL CENTRE ACTREC Plot No.1&2 Sector 22, Kharghar Tehsil-Panvel, District-Raigad.	REPORT DATE	18/07/2024
	LAB REFERENCE NO	HS/LAB/WA/0462
	SAMPLING DATE	12/07/2024
	SAMPLE RECIEPT DATE	12/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	18/07/2024
	SAMPLING REF./SOP NO	HS/NABL/QC/02

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Drinking Water	Horizon Services	Plastic bottle – 1000ml	---	Khanolkar Sodhika Building 2 nd Floor

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	LIMITS IS 10500:2012 (RA 2018)	TEST METHOD REFERENCE
01	Turbidity	NTU	BDL (<5.00)	< 1.00	APHA 24 th Ed 2023, 2130 B
02	pH	---	7.94	6.5 – 8.5	APHA 24 th Ed 2023, 4500-H+B
03	Total Dissolved Solids	mg/L	140.00	< 500.00	APHA 24 th Ed 2023, 2540 C
04	Chlorides as Cl ⁻	mg/L	32.00	< 250.00	APHA 24 th Ed 2023, 4500 Cl-B
05	Sulphates as SO ₄ --	mg/L	20.00	< 200.00	APHA 24 th Ed 2023, 4500 SO ₄ E
06	Total Hardness CaCO ₃	mg/L	46.00	< 200.00	APHA 24 th Ed 2023, 2340 C
07	Calcium as Ca	mg/L	12.00	< 75.00	APHA 24 th Ed 2023, 3500 Ca B
08	Magnesium as Mg	mg/L	4.00	< 30.00	APHA 24 th Ed 2023, 3500 Mg B
09	Iron as Fe	mg/L	BDL (<0.10)	< 0.30	APHA 24 th Ed 2023, 3500 Fe B
10	Nitrates as NO ₃	mg/L	BDL (<2.00)	< 45.00	APHA 24 th Ed 2023, 4500 NO ₃ B
11	Fluoride as F	mg/L	BDL (<0.20)	< 1.00	APHA 24 th Ed 2023, 4500-F- D
12	Residual Chlorine - Cl ₂	mg/L	BDL (<0.50)	> 0.20	APHA 24 th Ed 2023, 4500 Cl-B

REMARK: As per IS 10500:2012(RA 2018), above water sample is chemically potable for drinking purpose for the parameters tested.

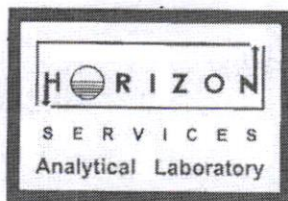


For HORIZON SERVICES
menal gerrera
(AUTHORISED SIGNATORY)

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

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ANALYSIS REPORT

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HS/LAB/NABL/F/7.8.2.1

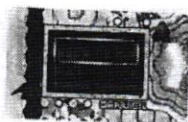
CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/05390
M/s. TATA MEMORIAL CENTRE ACTREC Plot No.1&2 Sector 22, Kharghar Tehsil-Panvel, District-Raigad.	REPORT DATE	18/07/2024
	LAB REFERENCE NO	HS/LAB/WA/0462
	SAMPLING DATE	12/07/2024
	SAMPLE RECIEPT DATE	12/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	18/07/2024
	SAMPLING REF./SOP NO	HS/NABL/QC/02

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Drinking Water	Horizon Services	Glass Bottle- 250 ml	---	Khanolkar Sodhika Building 2 nd Floor

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	LIMITS IS 10500:2012 (RA 2018)	TEST METHOD REFERENCE
01	MPN	MPN/100ml	NIL	ABSENT	APHA 24 th Ed 2023, 9221 B
02	E. Coli	Org/100ml	ABSENT	ABSENT	APHA 24 th Ed 2023, 9221 G

REMARK: As per IS 10500:2018, above water sample is bacteriologically potable for drinking purpose for the parameters tested.



For HORIZON SERVICES

MANISHA NARGOLKAR
(Lab Incharge)

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



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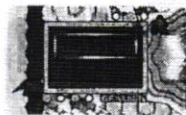
HS/LAB/NABL/F/7.8.2.1

CLIENT'S NAME & ADDRESS	ULR NO	TC7064240000005391
M/s. TATA MEMORIAL CENTRE ACTREC Plot No.1&2 Sector 22, Kharghar Tehsil-Panvel, District-Raigad.	REPORT DATE	18/07/2024
	LAB REFERENCE NO.	HS/LAB/WA/0462
	SAMPLING DATE	12/07/2024
	SAMPLE RECEIPT DATE	12/07/2024
	START DATE OF ANALYSIS	13/07/2024
	END DATE OF ANALYSIS	18/07/2024
	SAMPLING REF. / SOP NO.	HS/NABL/QC/02

DETAILS OF SAMPLE	SAMPLING DONE BY	SAMPLE CONTAINER & QUANTITY	NATURE	LOCATION
Soil Sample	Horizon Services	Plastic Bag- Approx 500 gm	---	Khanolkar Sodhika Building Garden Area

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION OF PARAMETERS	UNIT	RESULTS	Standard Ministry Agriculture 2011	TEST METHOD REFERENCE
01	pH	--	6.90	< 8.5	IS 2720 (Part 26) 1987 RA 2016
02	Electrical Conductance	mS/cm	0.45	0.15 - 0.65	IS 14767:2000
03	Colour	--	Brown	Not Specified	SOP NO: HS/ NABL/ SOIL/17
04	Chlorides as Cl ⁻	mg/kg	18.50	Not Specified	SOP NO: HS/ NABL/ SOIL/27
05	Sulphates as SO ₄ ²⁻	mg/kg	126.00	Not Specified	IS 2720 (Part 27)- 2020
06	Total Nitrogen as N	Kg/ha	294.00	280 - 560	IS 14684:2019
07	Phosphorous as P	Kg/ha	18.60	10- 24.60	SOP NO: HS/ NABL/ SOIL/8
08	Calcium as Ca	mg/kg	102.00	< 400.00	SOP NO: HS/ NABL/ SOIL/7
09	Magnesium as Mg	mg/kg	162.00	< 240.00	SOP NO: HS/ NABL/ SOIL/5
10	Sodium as Na	mg/kg	155.00	Not Specified	IS 9497: 1998: RA 2020
11	Potassium as K	mg/kg	234.00	108-280	SOP NO: HS/ NABL/ SOIL/7
12	Water Holding Capacity	%	42.00	Not Specified	SOP NO: HS/ NABL/ SOIL/23
13	Iron as Fe	mg/kg	30.00	Not Specified	SOP NO: HS/ NABL/ SOIL/20
14	Moisture Content	%	30.00	Not Specified	IS 2720 (Part 2)- 1973 RA 2020
15	Boron as B	mg/kg	5.50	Not Specified	SOP NO: HS/ NABL/ SOIL/29
16	Manganese as Mn	mg/kg	32.00	Not Specified	SOP NO: HS/ NABL/ SOIL/20
17	Zinc as Zn	mg/kg	0.62	0.4 - 1.2	SOP NO: HS/ NABL/ SOIL/20



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

For HORIZON SERVICES
M. N. Agarwal
(AUTHORISED SIGNATORY)

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