टाटा स्मारक केन्द्र
TATA MEMORIAL CENTRE
कैंसर उपचार, अनुसंधान एवं शिक्षा का प्रगत केंद्र
ADVANCED CENTRE FOR TREATMENT, RESEARCH & EDUCATION IN CANCER
प.ऊ.वि. भारत सरकार का एक सहायता अनुदान प्राप्त संस्थान
A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVT. OF INDIA

No. 68587

Ref No. TMC/ACTREC/SKB/Compliance report/2024/1466

Date: 18th February 2025

To,
The Chief Conservator of Forest,
Ministry of Environment, Forests & Climate
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building, Civil Lines, Nagpur- 440001

Sub: Submission of Six-Monthly Environmental Clearance Compliance Report.

Ref:

- Environmental Clearance granted for (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) by State Level Environmental Impact Assessment Authority (SEIAA), Maharashtra vide letter No.: SEAC 2013 / CR- 101/TC-1, Dated: 8th April 2013 & Amendment in same on 11th December 2015.
- Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" vide No. SEAC 2213/CR 325/TC II Dated: 12th January 2016.
- Environmental Clearance for Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) Vide No. CIDCO/ACP(BP/DP/NT)/EC/ 2018 / 643; Date: 12.01.2018.
- Amended Environmental Clearance for Asha Niwas vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642 Date: 12.01.2018.
- Environment Clearance for the Expansion & Amendment for Bio Bank vide No. SEIAA-EC-0000000084 Dated 4th May 2017.
- Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" Vide No. SEIAA-EC-0000002065 dated 7th Nov 2019.
- EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus.
- EC No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed for Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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).

Respected Sir,

We have granted Environmental Clearance for existing and proposed project (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record

प्लॉट क्रं. 1 एवं 2, सेक्टर 22, खारघर,
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+ 91-22-6873 5000
फ़ैक्स : + 91-22-2740 5085

जल्द इलाज होने पर कैंसर ठीक हो सकता है!
Cancer is curable, if detected early
ईमेल/E-mail: mail@actrec.gov.in
वेबसाइट/Website : https://actrec.gov.in

Plot no. 1 & 2, Sector 22, Kharghar,
Navi Mumbai – 410 210, INDIA.
Phone +91-22-2740 5000
+91-22-6873 5000
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Storage), Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" & Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU), Asha Niwas, TMC Child Care Centre, Bio bank, 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 at ACTREC, Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai.

Construction activities started at site from 15th September 2013.

In compliance to the conditions stipulated in Environmental Clearance we are submitting the six-monthly Compliance Status Report for the period of July 2024 – December 2024 along with the desired information and copies of documents are as under:

1. Data sheet
2. EC Compliance report.
3. Post Monitoring Report (July 2024 – December 2024)

We understand that the report prepared by M/s. Sahayog Enviro Solutions, Consultant, is as per requirements.

We hope the above is to your satisfaction.

Thanking You,

Yours faithfully

18/02/2025

Satish K. Bhangale
Engineer 'D' (Civil)
Engineering Services
TMC-ACTREC, Kharghar

Enclosure: Annexure I to XX

CC to:

1. **The Member Secretary, Maharashtra Pollution Control Board, 3rd Floor, Kalpataru Point, Sion, Mumbai- 400 022.**
2. **Central Pollution Control Board, Parivesh Bhavan, Opp. VNC word office No. 10, Subhanpura, Vadodara.**

DATA SHEET

1.	**Project type: River-valley/Mining/Industry/ Thermal / Nuclear/Other (Specify)**	Hospital Project (Advance Treatment, Research & Education in Cancer –Tata Memorial Centre funded by Government of India)
2.	**Name of the Project**	Existing and Proposed project Radiological Research Unit and Administrative block (RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) at ACTREC, Proposed expansion of TATA Memorial Hospital "Hemato Lymphoid Block", proposed construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block(RRU), Construction of Dormitory Building(Asha Niwas), TMC Child Care Centre and Construction of Bio Bank storage Building and "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", 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.
3.	**Clearance letter (s)/OM No. And Date**	**EC granted for -** • (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) vide letter No: SEAC 2013/CR-101/TC-1, Dated: 8th April 2013 • Amendment in same on 11th December 2015 • Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" vide No. SEAC 2213/CR 325/TC II Dated: 12th January 2016. • Environmental Clearance for Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) Vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/643; Date: 12.01.2018 • Amended Environmental Clearance for Asha Niwas vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642 Date: 12.01.2018. • Environment Clearance for the Expansion & Amendment vide No. SEIAA-EC-0000000084 Dated 4th May 2017. • Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer

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		Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019 • EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (TMC Child Care Centre) • EC No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed for Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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).
4.	**Location:** **a) District (s)** **b) State (s)** **c) Location** **d) Latitude/Longitude**	Navi Mumbai Maharashtra Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai. 19°04'03.76" N 73°0.3'49.88" E
5.	**Address for correspondence** **a) Address of the Concerned Project Chief Engineer (With Pin Code and telephone/telex/fax numbers)**	Name: Satish Bhangale; Engineer 'D' Civil Address: Engineering Services, 2nd floor, Khanolkar Sodhika, ACTREC – TMC Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai 410210 Tel No: 022-2740 5013/5067 Mobile No: 9869502468 Email id: sbhangale@actrec.gov.in
6.	**Salient features** **Of the project**	Total Plot Area: 2, 40, 007.495 sq. m. (As per EC Dated: 8th April 2013 & Amendment in same on 11th December 2015)

Particular	No. of buildings	Configuration
Radiological Research Unit and Administrative Block (RRU)	01	Existing scope B + Gr + 03 (Design for B + G +7) =7500 Sq. m.
Centre for Cancer Epidemiology (CCE)	01	Existing scope Gr + 03 (Design for G + 7) = 6000 Sq. m.
Archive & Record Storage	01	Existing scope Gr + 04 (Design for G + 4) = 4000 sq. m.

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Existing FSI area: 17, 500 sq. m.
Existing: Non FSI area: 5250 sq. m.
Existing Total Built Up Area: 22,750 sq. m.

(As per EC granted for expansion on dated: 12th January 2016)
Total Buildings – 2

Hematolymphoid Block	1	G + 7
Utility Block	1	Ground floor
Medical Gas Manifold	1	Ground floor
Electrical Substation	1	Ground floor
Entrance Structure	1	Ground floor

Proposed FSI area: 16731.26 sq. m
Proposed Non FSI: 2032.43 Sq. m.
Proposed Total Built Up Area: 18763.69 sq. m.

(As per EC for the Expansion & Amendment vide No. SEIAA-EC-0000000084 Dated 4th May 2017)
Bio-Bank structure having built-up area 119.88 Sq.m. with Ground floor configuration in the same plot, hence exceeding the earlier proposed built up area from 18,763.69 Sq.m. to 18,883.57 Sq.M.

Built-up area: 119.88 Sq.m.
Total BUA: 18,883.57 Sq.m.

(As per EC dated: 12th January 2018 for proposed construction of Hadron Beam (Proton Therapy) facility and RRU)

Particular	No. of buildings	Configuration
RRU & administration Block	01	B+G+7 floors
Hadron Facility	01	G+1 UF

Existing FSI area: 20,682 sq. m.
Existing: Non FSI area: 834.50 sq. m.
Existing Total Built Up Area: 21516.50 sq. m.

As per EC dated: 12th January 2018 for proposed construction of Dormitory Building, 'Asha Niwas'

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		1. FSI Area: 13210.24 sq.m. 2. Non FSI Area: 6286.76 sq.m 3. Total BUA: 19497.00 sq.m. As per EC dated: 12th January 2018 for proposed construction of Dormitory Building, 'Asha Niwas' FSI area: 25007.10 Sqm Non FSI area : 3057.78 Sqm Total BUA: 28064.88 Sqm As per EC dated: 23rd February 2023 for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. 1. FSI Area: 1,21,766.91 sq.m. 2. Non FSI Area: 39,318 sq.m 3. Total BUA: 1,61,798.46 sq.m. As per EC Dated 6th February 2024 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. 1. FSI Area: 2,40,007.05 sq.m. 2. Non FSI Area: 75,158.73 sq.m 3. Total BUA: 3,15,165.78 sq.m.
	Salient features Of the Environmental management plans	• Energy efficient electrical installation for conserving electricity. • Provision of Rainwater Harvesting to conserve natural water. • Tree Plantation or Landscaping for green belt development. • Provision of Energy efficient drives for HVAC system • Solid Waste Management • Sewage Treatment Plan (STP) to reuse treated effluent.
7.	**Breakup of the project area** **a) Submergence area forest and non-forest** **b) Others**	Not Applicable Project comes under Industrial Area
8.	**Breakup of the project affected population with enumeration of those losing house/dwelling units**	Not Applicable 18/02/2025

<table>
<tr><td></td><td>only agricultural land only. Both dwelling units and agricultural land and landless laborers/artisans:
SC, ST/Adivas</td><td></td></tr>
<tr><td>9.</td><td>Financial details:
a) Project cost as originally planned and subsequent revised estimates and the year of price reference:

b) Allocation made for environmental management plans with item wise and year wise break-up.</td><td>Existing Rs. 56/- Crores (a)+ Proposed 311.59 Crores (b) = Rs. 367.59 Crore (a + b)

I. Construction Phase: (For Hematolymphoid Block)
<table>
<tr><th>Environmental Protection Measure</th><th>Capital Cost (Rs. in lakhs)</th><th>Recurring Cost Per annum (Rs. in lakhs)</th></tr>
<tr><td>Debris/topsoil Management</td><td>35</td><td>Nil</td></tr>
<tr><td>Toilet for labour + Drinking water + First aid arrangement</td><td>15</td><td>1</td></tr>
<tr><td>Total</td><td>50</td><td>1</td></tr>
</table>
II. Operation Phase: (For Hematolymphoid Block)
<table>
<tr><th>Environmental Protection Measure</th><th>Capital Cost (Rs. in Lakhs)</th><th>Recurring Cost Per annum (Rs. in Lakhs)</th></tr>
<tr><td>Sewage Treatment Plan</td><td>--</td><td>--</td></tr>
<tr><td>Rainwater Harvesting</td><td>--</td><td>--</td></tr>
<tr><td>MSW</td><td>--</td><td>--</td></tr>
<tr><td>Electrical Cost</td><td>108</td><td>4.89</td></tr>
<tr><td>Landscaping</td><td>76.81</td><td>52.92</td></tr>
<tr><td>Environment Monitoring</td><td>1.0</td><td>1.60</td></tr>
<tr><td>Total</td><td>185.81</td><td>59.41</td></tr>
</table>
Construction Phase: (For Hadron beam & RRU)
<table>
<tr><th>Environmental Protection Measure</th><th>Total Cost (Rs. in lakhs)</th></tr>
<tr><td>Debris/top Soil Management</td><td>20</td></tr>
</table></td></tr>
</table>

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Toilet for labour + Drinking water + First aid arrangement	20
Total	**40**

II. Operation Phase: (For Hadron beam & RRU)

Environmental Protection Measure	Capital Cost (Rs. in Lakhs)	Recurring Cost Per annum (Rs. in Lakhs)
Solid Waste Management	10	02
Biomedical Waste Management	0	05
Rainwater Harvesting	24.76	1.2
Green Belt	1	0.50
Energy Saving features	40	2.50
Total	**75.76**	**11.2**

III. Construction Phase: (Shanghavi Block)

Environmental Protection Measure	Total Cost (Rs. in lakhs)
Debris / Topsoil management	35
Site sanitation Toilets for labour + Drinking water + First aid arrangement	15
Total	**50**

IV. Operation Phase: (Shanghavi Block)

Environmental Protection Measure	Capital Cost (Rs. in Lakhs)	Recurring Cost Per annum (Rs. in Lakhs/yr)
Sewage Treatment Plan	300	8
MSW	12	2.5
Rainwater Harvesting	20	1
Greeen Belt Development	76.81	52.92
Energy Conservation	153	6.89
Environment Monitoring	1	1.6
Total	**562.81**	**72.91**

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	c) Benefit cost ratio/Internal rate of return and the year of assessment:	Not Applicable.
	d) Whether (c) includes the cost of environmental management as shown in the above	Not Applicable.
	e) Actual expenditure incurred on the project so far	Rs. 1179.10 Cr
	f) Actual expenditure incurred on the environmental management plans so far	Rs. 11.56 Cr
10.	Forest land requirement: a) The status of approval for diversion of forest land for non-forestry use b) The status of cleaning felling c) The status of compensatory afforestration, if any d) Comments on the viability and sustainability of compensatory afforestration programme in the light of actual field experience	Not Applicable Not Applicable Not Applicable Not Applicable
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information	Not Applicable
12.	Status of construction a) Date of commencement (Actual and/or planned) b) Date of completion (Actual and/or planned)	September 2013 (Actual) September 2028 (Planned)
13.	Reason for the delay of the project is yet to start	Disbursement of fund from government
14.	Dates of site visits	
	(a) The dates on which the project was monitored by the Regional Office on previous occasions, if any	28/11/2024
	(b) Date of site visit for this monitoring report	Please refer Post Monitoring Report.

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15.	**Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits.** **(The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently.)**	**EC granted for -** • (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) vide letter No: SEAC 2013/CR-101/TC-1, Dated: 8th April 2013 • Amendment in same on 11th December 2015 • Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" vide No. SEAC 2213/CR 325/TC II Dated: 12th January 2016. • Environmental Clearance for Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) Vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/643; Date: 12.01.2018 • Amended Environmental Clearance for Asha Niwas vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642 Date: 12.01.2018 • Environment Clearance for the Expansion & Amendment vide No. SEIAA-EC-0000000084 Dated 4th May 2017 • Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019 • EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre) • EC No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed for Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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).

Ref	EC No. SEAC 2013/CR-101/TC-1; Dated: 8th April 2013 & amendment in same on 11th December 2015
	EC No. SEAC 2213/CR 325/TC II; Dated: 12th January 2016
	EC No. CIDCO/ACP(BP/DP/NT)/EC/2018/643; Date: 12th January 2018
	EC No. CIDCO/ACP(BP/DP/NT)/EC/2018/642; Date: 12th January 2018
	EC No. SEIAA-EC-0000000084 Dated 4th May 2017
	EC No. SEIAA-EC-0000002065 dated 7th November 2019
	EC No. EC23B039MH160026 dated 23rd February 2023
	EC No. EC24B039MH110605 dated 6th February 2024
To	M/s. ACTREC- Tata Memorial Centre
For	1. Existing and Proposed Project (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) at ACTREC, Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai.
	2. Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" at plot 1 & 2, sector 22, Kharghar, Navi Mumbai
	3. Proposed construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) on the existing ACTREC campus of Tata Memorial Hospital at Kharghar by M/s. Tata Memorial Centre
	4. Proposed project of Addition of One Dormitory Building 'Asha Niwas' in the existing ACTREC campus of Tata Memorial Hospital at Kharghar by M/s. Tata Memorial Centre
	5. Expansion & Amendment in EC by addition of one structure "Bio Bank" in existing campus of Tata Memorial Hospital by M/s. Tata Memorial Centre
	6. Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in ACTREC
	7. Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (TMC Child Care Centre)
	8. Proposed Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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).
Status	Construction of total 1,63,450 Sq. mt. area is completed out of 2,20,169 Sq.m Built up area (FSI + Non FSI)

Construction phase

S. No.	Conditions	Compliance Status
i.	**This environmental Clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. This environmental Clearance issued with respect to the environmental consideration, and it**	Yes, we have received Environmental Clearance for • Radiological Research Unit and Administrative Block - RRU and Centre for Cancer Epidemiology (CCE, Archive and Record Storage) vide letter No: SEAC 2013 / CR 101/TC-1, Dated: 8th April 2013 & • Amendment in same on 11th December

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	does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.	2015 & for Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" vide No. SEAC 2213/CR 325/TC II Dated: 12th January 2016 and • Proposed construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block(RRU)vide CIDCO/ACP(BP/DP/NT)/ EC/2018/643; Date: 12th January 2018 & • Amended EC for proposed project of addition of one Dormitory Building 'Asha Niwas' vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642; Date: 12th January 2018 & • SEIAA-EC-0000000084 Dated 4th May 2017 for Bio Bank and Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019. • EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre). • EC No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed for Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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) Copies of Environmental Clearance & Amendment in same are attached as **Annexure - II**.
i.	**The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving**	The height, Construction built up area of proposed construction will be in accordance with the existing FSI/FAR norms of the urban local body. Plan approved from CIDCO (Plan Approving Authority). Commencement Certificate

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	layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.	for CCE Building & RRU Building, Archive & Record Storage Building, Hemato Lymphoid Block, Hadron & RRU, Asha Niwas, Biobank, Sanghvi Block, 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 is attached as **Annexure - III.** NOC for Height of Civil Aviation Department for Building/ Structure of Plot No. 1 & 2, Asha Niwas and Biobank is granted attached as **Annexure - IV.** NOC received from Fire Department for proposed Hospital Building (Hemato Lymphoid Block) & for Archive & Record Storage Building and Shanghvi Block, 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 is attached as **Annexure - V.**
iii.	**"Consent for Establishment" Shall be obtain from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be Submitted to the Environmental Department before start any construction work at the site.**	We have obtained Consent to Establish (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) & Expansion of TATA Memorial hospital "Hemato Lymphoid Block" vide No. Format 1.0/ BO/ CAC-Cell/ UAN No. 0000026705/ CAC – 1801000090 Dated: 03/01/2018. We have also obtained for Consent to Establish for construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) on the existing ACTREC campus of Tata Memorial Hospital vide No. Format 1.0/ BO/ JD (WPC)/ UAN No. 00000054179/CE/CC -2002000186 dated: 05/02/2020. Both copies are attached as **Annexure - VI.**
iv.	**All required sanitary and hygienic measure should be in place before**	Right now, the construction of Sanghavi Block is in progress. Following sanitary &

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	starting construction activities and to be maintained throughout construction phase.	hygienic measures are being followed at site. 1. Safe & clean water for workers. 2. Temporary toilets connected to soak pit followed by septic tank. 3. Regular medical checkups. 4. Regular disposal of Solid waste to approved landfilling site after segregation and sale of recyclables & inert. 5. Accumulation of stagnant water will be avoided to prevent breeding of mosquitoes. The above measures will be maintained throughout the construction phase.
v.	**Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.**	Sewage generated from the Centre for cancer Epidemiology (CCE) and Archive and Record Storage are connected to CIDCO sewer network which have STP at the end. Occupation Certificates for Centre for Cancer Epidemiology (CCE), Archive & Record storage, Biobank, RRU, Hematolymphoid and Hadron Project are received & are attached as **Annexure - VII.** Considering existing & proposed Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity is for ACTREC campus and construction work is completed & commissioned. The photograph of STP is enclosed as **Annexure - VIII.** We will take care for proper disposal of Solid waste to approved landfilling site after segregation and sale of recyclables & inert and green belt development. Prior certificates will be obtained from respective authorities.
vi.	**Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.**	Yes, Provision for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets with drainage connection to existing sewer network, safe drinking water, medical health care, first aid room etc. Please refer enclosed **Annexure - IX** for facilities for labours provided at site.

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vii.	**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 waste generated during the construction phase should be ensured.**	• Yes, safe & clean drinking water is provided through CIDCO to workers. Again, RO plants are installed at site. • Sewage generated from the project is connected to CIDCO sewer network which have STP at the end, the treated water being supplied by CIDCO to ACTREC for Horticulture. • The solid waste generated from labour camp being sent to approve landfilling site after segregation and sale of recyclables & inerts. • Other construction waste generated during construction which includes debris, concrete, steel and other metals, bricks, pallets, packaging and paper products, railings, door and window casings, fixtures, tiles, furnishings etc. • Accumulation of stagnant water will be avoided to prevent breeding of mosquitoes. • Drinking Water Analysis is Carried Out regularly. Please refer Post monitoring report. **Construction Waste Management:** Material wastes like bricks, cement etc. will be used as fill material and concrete would be recycled and reused at the site. An adequate facility for storage of waste materials will be made on site.
iii.	**The solid waste generated should be properly collected and segregated. Dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.**	• Total Non – Hazardous Solid waste generated at the site is 110.50 Kg/Day for existing and 788.5 Kg/Day for proposed facility which include Construction debris, Dry Waste, Wet Waste & STP Sludge (Dry Sludge) **For Biobank-** Dry-Existing: 187.5 Proposed: 0.75 Wet-Existing: 187.5 Proposed: 0.5 • STP Sludge: (Dry Sludge): 0.2 Kg/Day For Biobank-0.1 Kg/Day • Biomedical Waste generation is 1000 Kg/ Month (33.33 Kg/Day) for existing & 6610.75 Kg/month from proposed facility. For Biobank-Existing: 4602.75 Proposed: N.A. • Hazardous waste: 8 Kg/Day Approx.

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		For Shanghvi Block -
		Dry-Existing: 95.2
		Wet-Existing: 74.8
		• STP Sludge: (Dry Sludge): 25 Kg/Day
		• Biomedical Waste generation is 180Kg/day.
		• Hazardous waste: As per generation.
		
		Disposal of Solid Waste:
		• The construction debris will be utilized for filling and leveling of ground.
		• Metal waste will be disposed for recycling through scrap dealers.
		  • The solid waste generated due to packaging material will be preferably recycled and /or reused.
		  • Dry waste: - segregation and sale of recyclables, inerts to approved landfill site.
		• Wet waste: - biodegradable waste to compost.
		• STP Sludge (Dry Sludge): mix with wet waste and convert that into compost.
		• Biomedical Waste: - Biomedical waste will be sent to nearest Common Biomedical Waste Treatment and Disposal facility (CBMWTSDF) Authorized by MPCB.
		• Hazardous Waste: Will be send to authorized Pre-processor

ix.	**Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.**	Wet garbage generated from the construction of the building will be treated in Nisargruna Biogas Plant provided at the ground level in the premises. The manure thus generated will be used for gardening. Photographs and details of Nisargruna biogas plant are enclosed as **Annexure - X.**
x.	**Arrangement shall be made that wastewater and storm water do not get mixed.**	Yes, Separate drainage line is provided to prevent mixing of wastewater and storm water.
xi.	**All the topsoil excavated during construction activities should be stored for use in horticulture landscape development within the project site.**	Yes, at CCE, RRU, Hematolymphoid & Sanghavi Block topsoil used for maintaining green belt development. At other buildings where works are in progress, all the topsoil and construction

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<table>
<tr><td></td><td></td><td>debris will be used for maintaining green belt development and filling the plot respectively.</td></tr>
<tr><td>xii.</td><td>Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.</td><td>Soil received from excavation in foundation is utilized for the leveling.</td></tr>
<tr><td>xiii.</td><td>Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agricultural Dept.</td><td>Green belt development will be carried out as per CPCB guidelines. Currently, Green belt development is done at Hadron and Asha Niwas Building.

Please refer Annexure - XI for green belt developed within site.</td></tr>
<tr><td>xiv.</td><td>Disposal of muck during construction phase should be create any adverse effect on the neighboring communities and be disposed taking the necessary precaution for general safety and health aspects of people, only in approval sites with the approval of competent authority.</td><td>

Total Non – Hazardous Solid waste generated at the site from existing/proposed facility which include Construction debris, Dry Waste, Wet Waste & STP Sludge (Dry Sludge)
610 cu.m. top soil out of 990 cu.m. preserved topsoil is used for landscape development at Hematolymphoid Block.

<table>
<tr><th>Waste Generation</th><th>Existing</th><th>Proposed (Hematolymphoid Block and Hadron & RRU) & Asha Niwas</th></tr>
<tr><td>Non-Biodegradable</td><td>55.25 kg/day</td><td>600.74 kg/day</td></tr>
<tr><td>Bio-degradable waste</td><td>55.25 kg/day</td><td>477.56 kg/day</td></tr>
<tr><td>STP Sludge</td><td>0.1 kg/day</td><td>0.1 kg/day</td></tr>
</table>
Disposal of Solid Waste:

The construction debris will be utilized for filling the plot and maintaining the natural slope.
Dry waste: segregation and sale of recyclables, inert to approved landfill site.
Wet waste: biodegradable waste to compost.
STP Sludge (Dry Sludge): mix with wet

</td></tr>
</table>

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		waste and convert that into compost, used as manure.
xv.	**Soil & 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.**	Yes, the soil sample monitoring is carried out through MoEF recognized laboratory regularly and the reports are submitted to the ministry. Post Monitoring Reports are attached as **Annexure – I.**
xvi.	**Constructions 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 ground water.**	There is no generation of any bituminous material or any hazardous material at the site till date & if generated will be disposed as per the MPCB norms.
xvii.	**Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra pollution control Board.**	There is no generation of Hazardous waste at the Complex till date, if generated will be disposed as per MPCB norms. Waste generation in Operational Phase: Biomedical waste generation • For RRU & CCE: 1000 Kg/Month • For Hardon & RRU: 2008 Kg/Day • For Hemato Lymphoid Block: Hazardous waste generation- 8 Kg/Day approx. + Biomedical Waste generation- 1000 Kg/Month • For Asha Niwas: Existing: Existing- 4602.75 Proposed- NA • For Bio Bank: Existing- 4602.75 Proposed- NA • For Shanghavi Block: Existing- 2194.76 kg/day + Proposed- 180 kg/day Biomedical waste generated from proposed facility (Hadron Beam (Proton therapy) & Radiological Research Unit and Administration Block – RRU) and Centre Epidemiology (CCE, Archive and Record Storage), Hematolymphoid block and Shanghvi Block will be disposed off to the nearest Common Biomedical Waste Treatment and Disposal Facility (CBMWTSDF) authorized by MPCB.
xviii.	**The diesel generator sets to be used during construction phase should be low sulphur diesel type and should**	Yes, DG sets of 2 nos. × 1500 KVA is proposed for Hematolymphoid Block and DG sets of 2 Nos. × 625 and 2 Nos. × 2000

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	conform to environments (Protection) Rules prescribed for air and noise emission standards.	KVA are proposed for RRU and Hadron respectively which will be operated only during power failure during operation phase & will be provided with enclosure. Diesel generating sets will be of low sulphur diesel type as per environments (Protection) Rules prescribed for air and noise emission standards. Photographs of DG sets are enclosed as **Annexure - XII.** At Sanghvi Block, during construction phase, power shall be taken from Maharashtra State Electricity Distribution Co. Ltd. (MSEDL) and if required 1 No, 120 KVA DG set shall be used as power back up during construction phase.
xix.	**The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.**	As per norms, 990 litre day tank is provided with each DG set.
xx.	**Vehicle hired for bringing construction material to the site should be in good condition and should have pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non- peak hours.**	Right now, the construction of Sanghavi Block is in progress. The vehicles hired for bringing construction material such as concrete, sand, cement etc. at site will have valid PUC. All vehicles are less than 8 years old only. The vehicles used for bringing construction material will be operated only during non-peak hours.
xxi.	**Ambient noise levels should be conform to residential standards both during day & night Incremental pollution loads on the ambient air & 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.**	Yes, the Ambient Noise & Ambient Air monitoring will be regularly carried out at the boundary wall of the premises as per environmental protection act 1986. Please refer Annexure – I for post monitoring reports. **Following measures will be taken to reduce load on Ambient Noise & Air:** ▪ Temporary barricades will erect around the premises. ▪ The noise generating activities will carried out only during daytime. ▪ High noise generating machineries will provide with noise reducing measure. ▪ Transportation of the construction material will be carried out during daytime. ▪ Separate Entry & exist for the construction vehicles will provided.
xxii.	**Fly ash should be used as building**	Project site is not located within 100 km

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	material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27thAugust, 2003. (The above condition is applicable only if the project site is located within the 100 km of Thermal Power Stations).	of Thermal Power stations. However, fly ash is being utilizing in ready mix concrete.
xxiii.	**Ready mixed concrete must be used in building construction.**	Yes, Condition is noted. Ready mix concrete was used for the construction of CCE, Archive & Record storage and Biobank, of which construction works completed. It is being used for the ongoing construction works of Hematolymphoid Block, RRU, Hadron and Asha Niwas and will be used for proposed Construction of Sanghvi Block.
xxiv.	**The approval of component authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of firefighting equipment etc. as per National building Code including measures from lighting.**	Yes, we have received approval for Construction of Centre for Cancer Epidemiology (CCE) from RCC Consultant for structural safety of the building due to any possible earthquake, adequacy of fire-fighting equipment's etc. as per National Building Code including protection measures form lighting etc. Construction of Centre for Cancer Epidemiology (CCE), Archive & Record Storage building, Biobank, Hadron, Asha Niwas & Hematolymphoid Block are completed. Structural stability certificates are enclosed as **Annexure - XIII.**
xxv.	**Storm water control and its re-use as per CGWB and BIS standards for various applications.**	The harvested rainwater will be used for secondary purposes such as flushing and gardening. Detailed drawing of storm water drainage pattern and details of rainwater harvesting system at site are enclosed as **Annexure - XIV.**
xxvi.	**Water demand during construction should be reduced by use of pre – mixed concrete, curing agents and other best practices referred.**	Following best practices are being followed at site to reduce water demand. 1) Pre-mixed concrete i.e. RMC concrete is being used at site. 2) Curing is being done at site by sprinkling water over hessian cloth.
xxvii.	**The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.**	Yes, Ground water level and quality will be monitored regularly through MoEF recognized laboratory.
xviii.	**The installation of the Sewage**	At ACTREC campus, installation of 600

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	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/ reused to the maximum extent possible. Treatment of 100 % grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.	KLD capacity STP is completed and the treated water is supplied for Horticulture purpose. Considering on-going project of Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity for ACTREC campus is completed **certified by an independent expert copy enclosed** as **Annexure - VIII.** At ACTREC campus, installation of 1 KLD capacity ETP is completed and the treated water is supplied for Horticulture purpose. **Enclosed** as **Annexure – VIII.**
xxix.	**Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.**	Yes. we have received Occupation Certificates for Centre for Cancer Epidemiology (CCE), Archive & Record storage, Biobank, Hadron, Aasha Niwas, RRU and Hematolymphoid Block. Copies of same are enclosed as Annexure – VII.
xxx.	**Permission to draw ground water shall be obtained from the Competent Authority prior to construction / operation of the project.**	To draw ground water for construction purpose, necessary permission will be obtained.
xxxi.	**Separation of grey and black water should be done by the use of duel plumbing line for separation of grey and black water.**	Yes, dual plumbing line are designed and constructed at CCE, Archive, Record Storage Building, Hematolymphoid Block, RRU, Hadron and Asha Niwas Building for separation of grey and black water. For Sanghvi Block, dual plumbing lines will be designed and provided.
xxxii.	**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.**	Yes, Fixtures of showers, toilets, flushing and drinking are of low flow by the use of aerators, pressure reducing valve & sensor-based control at CCE, Archive & Record Storage and Hadron Building. And, at other buildings i.e. Hematolymphoid Block, RRU, and Asha Niwas & Proposed Shanghvi Block it is considered and will be provided during construction.
xxiii.	**Use of glass may be reduced up to 40 % to reduce the electricity consumption and load on air conditioning. If necessary, use high**	Yes. Use of glass is restricted to minimum requirement. 18/12/2024

	quality double glass with special reflective coating in windows.	
xxiv.	**Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.**	Yes. Underdeck insulation is provided at terrace slab level at CCE, Hematolymphoid Block, RRU and at AHU rooms at first floor of Hadron Building. It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code.
xxxv.	**Energy conservation measures like installation of CFLs / TFLs for the lighting the areas outside the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use 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. Use of solar panels may be done to the extent possible like installing solar streetlights, common solar water heater system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.**	Yes, the condition is noted & is complied at CCE Building by providing solar operated street lighting system at entrance. At Hadron Building, following Energy conversation measures are considered in design and accordingly work is completed. a. Solar power panel b. LED lighting system c. LED street lighting d. Energy efficient drives At Hematolymphoid Block & RRU, following Energy conversation measures are considered in design and accordingly work is completed. a. LED lighting system b. LED street lighting c. Energy efficient drives Energy Conservation Measures at Shanghvi Block a. Use of LED for Lighting b. Use of LED for Stair-case c. Use of BEE 5-star certified appliance for normal power d. Use of energy star rated Computers / Equipments for Computer Power e. Use of BEE Certified Motors for AHU Load f. Use of High Cop Chillers with VFD for HVAC chillers g. Use of EFF-1 Motors, Variables Speed Pumping System for HVAC Pumping h. Use of BEE Certified Motors for Medical Equipment & bed head

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		panel i. Use of Group controls and Variable speed drives for Lifts j. Use of Daylight based controls + LED light fitting for Street Light Use of Daylight based controls + LED light fitting for landscape lighting k. Use of High Efficiency heat pumps for Hot water system l. Use of CO sensors and VFD Fans for Ventilation & exhaust system m. Maximum saving due to Solar Water Heating system n. Maximum saving due to Solar PV cells
xxvi.	**Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operational phase should be of enclosed type and conform to rules made under the environment (Protection) Act, 1986. The height of stack of D.G. sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG Sets may be decided with in consultation with Maharashtra Pollution Control Board.**	Yes, DG sets are operated only during power failure & are being provided with enclosure.
xxvii.	**Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.**	Yes. Regular Noise Monitoring is carried out by MoEF recognized laboratory. Post monitoring reports are attached as Annexure - I.
xviii.	**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.**	Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: • 2-wheeler: 4 nos. • 4-wheelers: 47 nos. Public transport: 02 vehicles for approx. 100 staff. Width of all Internal roads: main road = 11.00 m (both lane) + footpath on both sides, secondary roads= 6.0 m (lane). **For Hematolymphoid Block:** • 2-wheeler: 08 nos. • 4-wheelers: 90 nos.

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		• Total area for car parking: 2300 Sq.m. • Type of parking: OPEN • Area per car including driveway provided for car parking: 25.5 Sq.m. • Width of all Internal roads (m): 9.00 mts /6.00 mts /5.00 mts driveway **For Asha Niwas:** Total Parking area: 437 sq.m. Area per car: 12.5 sq.m. No. of 4 wheelers approved: 159
xxix.	**Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non – air- conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.**	The walls will meet all prescriptive requirements as per Energy Conservation Building Code.
xl.	**The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air, and ventilation**	Yes, buildings are constructed in with adequate distance between them to allow movement of fresh air and passage of light to the residential premises
xli.	**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.**	Yes, above condition is complied with. Regular monitoring of various environmental parameters is carried out. Please refer post monitoring reports attached with compliance as Annexure – I.
xlii.	**Under the provision of Environmental (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.**	We have received Environmental Clearance from ministry for – • Radiological Research Unit and Administrative Block - RRU and Centre for Cancer Epidemiology (CCE, Archive and Record Storage) vide letter No: SEAC 2013 / CR 101/TC-1, Dated: 8th April 2013 & • Amendment in same on 11th December 2015 & for Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" vide No. SEAC 2213/CR 325/TC II Dated: 12th January 2016 and • Proposed construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) vide CIDCO/ACP(BP/DP/NT)/

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		EC/2018/643; Date: 12th January 2018 • Amended EC for proposed project of addition of one Dormitory Building 'Asha Niwas' vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642; Date: 12th January 2018 & • SEIAA-EC-0000000084 Dated 4th May 2017 for Bio Bank and Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019. • EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre) • EC No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed for Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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).
xliii.	**Six monthly monitoring reports should be submitted to the Department and MPCB.**	Yes, we are submitting Six monthly environmental clearance compliance report regularly. Ack. copy of last six-monthly compliance report submitted for period of Jan 2024 – June 2024 is enclosed herewith as **Annexure - XVIII.**
xliv.	**A complete set of all the documents submitted to Department should be forwarded to the MPCB**	Yes, a complete set of all the documents submitted to MoEF shall be forwarded to MPCB.
xlv.	**In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.**	Yes, in the case of any change(s) in the scope of the project, fresh appraisal will be taken.
xlvi.	**A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.**	Yes, separate environment management cell has been set up for implementation of the stipulated environmental safeguards.
xlvii.	**Separate funds shall be allocated for implementation of environmental**	Separate funds are maintained for Environment Management Plan.

	protection measures EMP along with item – wise breakup. These cost shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should reported to the MPCB & this department.	Please refer Environment Management Plan for Hematolymphoid Block, Hadron & RRU, Asha Niwas and Sanghvi Block enclosed as **Annexure - XVI.**
xlviii.	**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 clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in.**	Yes, we have published the advertisement in two local newspapers. Same is attached as **Annexure - XVII.**
xlix.	**Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.**	Half yearly compliance reports are submitted to the MPCB & concerned department. Ack. copy of last six-monthly compliance report submitted for period of Jan 2024 – June 2024 is enclosed herewith as **Annexure - XVIII.**
l.	**A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO. If any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.**	Noted.
li.	**The proponent shall also submit six monthly reports on 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, SO2, NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and**	Yes, monitoring at the site is carried out through MoEF recognized Laboratory regularly. Please refer Annexure – I.

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	displayed at a convenient location near the main gate of the company in the public domain.	
lii.	**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.**	Yes, we are submitting Six monthly environmental clearance compliance report regularly. Ack. copy of last six-monthly compliance report submitted for period of Jan 2024 – June 2024 is enclosed herewith as **Annexure - XVIII.**
liii.	**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 condition and shall also be sent to the respective Regional Office of MoEF by e-mail.**	Yes, Environment statement is submitted to MPCB Portal according to the condition in consent is enclosed herewith as **Annexure - XV.**
Additional Conditions as per Environmental Clearance vide No. SEAC 2213/CR 352/TC II		
i.	**This environmental clearance is issued subject to land use verification. Local authority/ planning authority should ensure this with respect to Rules, Regulations, notifications, Government Resolutions, Circular etc. issued if any. Judgements/ orders issued by Hon'ble High Court, Hon'ble NGT, Hon'ble Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified. PP should submit exactly the same plans appraised by concern SEAC and SEIAA. If any discrepancy found in the plans submitted or details provided in the above para may be reported to environment department. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.**	Yes, above condition is noted. • We have already received Environmental Clearance wide letter no. SEAC 2013/CR-101/TC-1; Dated: 8th April 2013 & amendment in same on 11th December 2015. • Expansion in EC for Hemato Lymphoid Block is received vide letter SEAC 2213/CR 352/TC II dated 12th January 2016. • Proposed construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) vide CIDCO/ACP(BP/DP/NT)/ EC/2018/643; Date: 12th January 2018. • Amended EC for proposed project of addition of one Dormitory Building 'Asha Niwas' vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642; Date: 12th January 2018 & SEIAA-EC-0000000084 Dated 4th May 2017 for Bio Bank.

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		• Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019. • EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre) • EC No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed for Amendment & Expansion in EC for proposed Development in Existing layout of Tata Memorial Centre ACTREC campus. (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).
ii.	**E- waste shall be disposed through Authorized vendor as per E – waste (management and handling) Rules, 2011**	Not Applicable, No E- waste will be generated from the proposed project. If generated any will be disposed off as per E – waste (management and handling) Rules, 2011.
iii.	**This environmental Clearance is issued subject to utilization of excess treated water.**	Yes, Total water requirement for existing & proposed expansion is enclosed as **Annexure - XIX.**
iv.	**Occupation Certificate shall be issued to the project only after ensuring availability of drinking water and connectivity of the sewer line to the project site.**	Yes, Occupation Certificate will be obtained only after ensuring availability of drinking water and connectivity of the sewer line to the project site.
v.	**Provide reserve parking at least three ambulances near the entrance, one for fire tender and one for physically challenged persons**	Reserve parking is provided for three ambulances near main entrance and one for fire tender one for physically challenged persons.
vi.	**PP has to abide by the conditions stipulated by SEAC & SEIAA.**	Yes, all conditions mentioned will be followed by PP.
vii.	**Project proponent shall ensure completion 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**	Existing Sewage generation is about 108.14 m^3. Additional sewage generated from proposed hospital facility (Hematolymphoid Block) will be about 160 m^3 and 100 m^3 from the project Hadron & RRU, will be connected to CIDCO Sewer network which have STP at the end, the treated water shall be

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<table>
<tr><td></td><td>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 in Para 2. Prior certification from appropriate authority shall be obtained.</td><td>supplied by CIDCO to ACTREC for gardening. In addition, 600 KLD capacity STP is commissioned at ACTREC campus. Solid waste generated from existing Hospital facility will be sent to approved landfilling site after segregation and sale of recyclables & inert regularly.

Considering on-going projects as well as proposed Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity for ACTREC campus and now the construction work is completed and commissioned.</td></tr>
<tr><td>viii.</td><td>Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.</td><td>Yes, Total waste generation in the pre-construction and construction phase:
<table>
<tr><th>Waste Generation</th><th>Existing</th><th>Proposed (Hematolymphoid Block and Hadron & RRU)</th><th>Proposed Bio Bank</th><th>Proposed Shanghvi Block</th></tr>
<tr><td>Non-Biodegradable</td><td>55.25 kg/day</td><td>513.8 kg/day</td><td>0.75 kg/day</td><td>95.2 kg/day</td></tr>
<tr><td>Bio-degradable waste</td><td>55.25 kg/day</td><td>274.7 kg/day</td><td>0.5 kg/day</td><td>74.8 kg/day</td></tr>
<tr><td>STP Sludge</td><td>0.1 kg/day</td><td>0.1</td><td>0.1 kg/day</td><td>25 kg/day</td></tr>
</table>
Mode of disposal:
• Dry Waste: Segregation and sale of recyclables, inserts to approved landfill site
• Wet Waste: Wet garbage generated from the construction of the building will be treated in vermiculture plant provided at the ground level in the premises. The manure thus generated will be used for gardening.
• STP Sludge (Dry Sludge): Used as manure.</td></tr>
</table>

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Pointwise EC Compliance: EC No. EC24B039MH110605 Dated 6th February 2024

Sl. No	Condition	Compliance Status
A	SEAC CONDITIONS	
1.	PP to obtain IOD/IOA/Concessions /Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions as per the Circular dated 30.1.2014 issued by the Environment Department, Govt. of Maharashtra showing required RG area on mother earth as per Hon'ble Supreme Court order.	PP obtain approval from CIDCO vide Plan approval No. CIDCO/BP-15162-TPO/(NM)/2023/4992, dated. 14.09.2023. Also, PP has provided entire mandatory RG on the mother earth.
2	PP to obtain following NOCs & remarks: a) Water Supply; b) Sewer connection; c) SWD remarks; d) Tree NOC; e) revised Civil Aviation NOC.	PP has obtained all required NOC for the Environment clearance.
3	PP to submit undertaking and architect certificate mentioning that they have provided all required RG on mother earth as per the Hon'ble supreme Court order regarding Rg area.	PP submitted undertaking & RG certificate for all required RG on mother earth as per the Hon'ble supreme Court order
4	PP to obtain latest certified compliance report of earlier EC from Regional Office, MOEF & CC Nagpur.	PP has obtained latest certified compliance report of earlier EC vide F. No. EC-I891/RON/2021-NGP/13768 dated 28.11.2024 from Regional Office, MOEF & CC Nagpur.
5	PP to reduce discharge of water upto 35%; PP to submit undertaking from CIDCO regarding use of excess treated water for Golf course and central park.	PP submitted undertaking from CIDCO regarding use of excess treated water for Golf course and Central Park.

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6	PP to provide details of ETP & including cost of ETP in MEP	PP submitted the ETP details including cost of ETP in MEP. 2 Nos 1KLD ETP plant are also operational – with Rs. 24 Lakhs per plant.
7	PP to submit list of species of trees to be planted in the RG area & Miyawaki plantation with the area demarcated for Miyawaki plantation	PP submitted the list of trees to be planted in the RG area & Miyawaki plantation
8	PP to submit undertaking that they will follow guidelines of dust mitigation issued by planning authority/state government; PP to submit bifurcation of mitigation measures along with their cost for reducing air pollution and submit revised EMP of construction phase accordingly.	PP confirmed that PP will follow the guidelines of dust mitigation issued by planning state government.
B. SEIAA Conditions		
1	PP has provided mandatory RG area of 24000.7 sq.m 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.	**Complied,** solar installation done for the constructed building
4	PP shall comply with standard EC conditions mentioned in the office memorandum issued by MoEF & CC vide F.No. 22-	**Complied,** PP agreed and confirmed that 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

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	34/2018-IA III dt. 04.01.2019.	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
General Conditions **a) Construction conditions:**		
I	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites 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.
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 the general safety and health aspects of people, only in approved sites with the approval of competent authority.	**Complied.** Agreed by the PP. The construction debris will be utilized for filling the plot and maintaining the natural slope. 610 Cum top soil out of 990 Cum preserved topsoil is used for landscape development. Disposal of Solid Waste: • The construction debris will be utilized for filling the plot and maintaining the natural slope. • Dry waste: segregation and sale of recyclables, inert to approved landfill site. • Wet waste: biodegradable waste to compost. STP Sludge (Dry Sludge): mix with wet waste and convert that into compost, used as manure.
III	Any hazardous waste generated during construction phase should be disposed off 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.

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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 waste water and solid wastes generated during the construction phase should be ensured.	• **Complied.** Yes, safe & clean drinking water is provided through CIDCO to workers. Again, RO plants are installed at site. • Sewage generated from the project is connected to CIDCO sewer network which have STP at the end, the treated water being supplied by CIDCO to ACTREC for Horticulture. • The solid waste generated from labour camp being sent to approve landfilling site after segregation and sale of recyclables & inerts. • Other construction waste generated during construction which includes debris, concrete, steel and other metals, bricks, pallets, packaging and paper products, railings, door and window casings, fixtures, tiles, furnishings etc. • Accumulation of stagnant water will be avoided to prevent breeding of mosquitoes. • Drinking Water Analysis is Carried Out regularly. Please refer Post monitoring report. • Mobile toilets with drainage connection to existing sewer network
V	Arrangement shall be made that waste water and storm water do not get mixed	Agreed by the PP. Separate drainage line is provided to prevent mixing of wastewater and storm water.
VI	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	**Complied.** Following best practices are being followed at site to reduce water demand. 1) Pre-mixed concrete i.e. RMC concrete is being used at site. 2) Curing is being done at site by sprinkling water over hessian cloth.
VII	The Ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	PP informed that ground water is not used for construction purposes. For operation phase the water is sourced from CIDCO local authority. hence the ground water analysis was not done.
	Permission to draw ground water shall be obtained from the competent Authority prior to	PP will avail water from CIDCO. No ground water is used for construction.

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VIII	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. Fixtures of showers, toilets, flushing and drinking are of low flow by the use of aerators, pressure reducing valve & sensor-based control at CCE, Archive & Record Storage and Hadron Building. And, at other buildings i.e. Hematolymphoid Block, RRU, and Asha Niwas & Proposed Shanghvi Block it is considered and will be provided during construction.
X	The Energy Conservation Building code shall be strictly adhered to.	Agreed by the PP. Energy conservation measures such as Solar panel provided on CRI and CRC Building terrace. Solar Panel works for JS ward block building and RRS Building is in progress. , LED lighting system replacement in progress for ACTREC Campus. And New project considering all LED Lights, LED street lighting, Energy efficient drives, BEE Certified Motors etc. will be provided.. Underdeck insulation is provided at terrace slab level at CCE, Hematolymphoid Block, RRU and at AHU rooms at first floor of Hadron Building. It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code.
XI	All the topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	**Complied.** CCE, RRU, Hematolymphoid & Sanghavi Block topsoil used for maintaining green belt development. At other buildings where works are in progress, all the topsoil and construction debris will be used for maintaining green belt development and filling the plot respectively.
XII	Additional Soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	**Complied.** PP confirm that Natural drainage system of area is not disturbed. The construction is done by taking advantage of natural contour. No additional soil is required for land leveling.
XIII	Soil and ground water samples	**Complied.** PP has tested Soil samples

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	will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	through MoEF recognized laboratory. As per test report there is no presence of heavy metals in the soil.
XIV	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act 1975 as amended during the validity of Environment Clearance.	Agreed by the PP
XV	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (protection) Rules prescribed for air and noise emission standards.	**Complied.** During construction phase temporary Adani power connection is used. No DG is used for construction phase
XVI	Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highway Department. The vehicle shall be adequately covered to avoid spillage/leakages.	**Complied.** The vehicles hired for bringing construction material such as concrete, sand, cement etc. at site will have valid PUC. All vehicles are less than 8 years old only. The vehicles used for bringing construction material will be operated only during non-peak hours.
XVII	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,** the Ambient Noise & Ambient Air monitoring will be regularly carried out at the boundary wall of the premises as per environmental protection act 1986. Please refer Annexure – IV for post monitoring reports. **Following measures will be taken to reduce load on Ambient Noise & Air:** ▪ Temporary barricades will erect around the premises. ▪ The noise generating activities will carried out only during daytime. ▪ High noise generating machineries will provide with noise reducing measure.

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		▪ Transportation of the construction material will be carried out during daytime. Separate Entry & exist for the construction vehicles will provided.
XVIII	Diesel Power generating sets proposed as source of backup power for elevators and common area illumination 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. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	Agreed by the PP. DG sets are operated only during power failure & are being provided with enclosure.
XIX	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.** Confirm that PP has set up an Environmental Management Cell which is carrying out regular supervision. PP carried out the construction activity only during day time and periodically carry outs monitoring of the noise and ambient air quality monitoring through recognized laboratory. The parameters are within the limits.
b) **Operation Phase Conditions**		
I	a).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	**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.

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	recyclable material.	
II	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016	Not Applicable, No E- waste will be generated at ACTREC project. If generated any will be disposed off as per E – waste (management and handling) Rules, 2016.
III	a).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.	Complied. PP installed STP having capacity: 600 KLD STP installed however as per the current needs of campus 300 KLD STP is operational. 2 Nos 1 KLD ETP plant are also operational. Routine maintenance and testing of water is carried out periodically. Enclosed as **Annexure – VIII.**
IV	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	Agreed by the PP. Considering on-going projects as well as proposed Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity for ACTREC campus and now the construction work is completed and commissioned.

	said environmental infrastructure is installed and made functional including water requirement.	
V	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.	Yes, Occupation Certificate will be obtained only after ensuring availability of drinking water and connectivity of the sewer line to the project site.
VI	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. Parking is fully internalized to avoid traffic congestion.
VII	PP to provide adequate electric charging points for electric vehicles (EVs)	Yes, it is considered in proposed MLCP 1 project.
VIII	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.** As per approved plan of ACTREC, green belt area of 25.207.44 sqm for with required trees of 7042 Nos of native species provided. The green belt development is currently in progress, and upon project completion, the PP will plant additional trees as per (EC) conditions. Please refer **Annexure – XI** for green belt developed within site.
IX	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Yes, Enclosed in **Annexure XX.** Environmental Management Cell is carrying out regular supervision.
X	Separate funds shall be allocated for implementation of	Separate funds are maintained for

	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.	Environment Management Plan. Please refer Environment Management Plan for Hematolymphoid Block, Hadron & RRU, Asha Niwas and Sanghvi Block enclosed as **Annexure - XVI.**
XI	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 clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in.	**Complied.** We have published the advertisement in two local newspapers. Same is attached as **Annexure - XVII.**
XII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	**Complied. And copy shared with Local Authority for granting commencement certificates.** Please refer web link below https://actrec.gov.in/environment-compliance. Location - ACTREC Home page https://actrec.gov.in/home> Annual Reports > Environment Compliance.
XIII	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	PP has uploaded copy of six-monthly compliance report on Location - ACTREC Home page https://actrec.gov.in/home> Annual Reports > Environment Compliance. 18/12/2025

	the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (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.	
C) General EC Condition		
I	PP has to abide by the conditions stipulated by SEAC& SEIAA	**Complied**. PP agreed and confirmed that 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 following Consent to Establish from MPCB: 1. Consent to Establish (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) & Expansion of TATA Memorial hospital "Hemato Lymphoid Block" vide No. Format 1.0/ BO/ CAC-Cell/ UAN No. 0000026705/ CAC – 1801000090 Dated: 03/01/2018. 2. Consent to Establish for construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) on the existing ACTREC campus of Tata Memorial Hospital vide No. Format 1.0/BO/JD(WPC)/UANNo.000000541 79/CE/CC -2002000186 dated: 05/02/2020. 3. Renewal of Combined Consent and BMW Authorization (CCA) release by

18/2/2025

		MPCB up to 04.04.2023. 4. Renewal of Combined Consent and BMW Authorization (CCA) release by MPCB No:- Format1.0/CAC/UAN No. MPCB CONSENT-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 proponent if it was found that construction of the project has been started without obtaining environmental clearance	PP has obtained Environment Clearance from SEIAA/ MoEF-CC & construction of the project had started after 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.	Yes, we are submitting Six monthly environmental clearance compliance report regularly. Ack. copy of last six-monthly compliance report submitted for period of Jan 2024 – June 2024 is enclosed herewith as **Annexure - XVIII**.
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.

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VI	No further Expansion or modification, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of SEIAA, In case of deviation or alterations in the project proposal from those submitted to SEIAA for clearance, afresh references shall be made to the SEIAA as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed By the PP.
VII	This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.	Not applicable.

(Page Nos. 1 To 42)

18/02/2025

Satish K. Bhangale
Engineer 'D' (Civil)
Engineering Services
TMC-ACTREC, Kharghar

List of Annexures

Annexure	Detail
Annexure - I	Monitoring Reports
Annexure - II	Copies of Environmental Clearance
Annexure - III	Commencement Certificate
Annexure – IV	Civil Aviation NOC
Annexure – V	Fire NOC
Annexure – VI	Consent to Establish
Annexure – VII	Copy of Occupation Certificate
Annexure – VIII	Photographs of STP
Annexure – IX	Facilities provided at site for Labours
Annexure - X	Photographs of Nisargruna Biogas plant
Annexure - XI	Details & Photographs of Green Belt Development
Annexure - XII	Photographs of DG sets
Annexure - XIII	Structural Stability Certificate
Annexure - XIV	Storm Water Drainage details
Annexure - XV	~~Environmental Statement~~
Annexure - XVI	EMP Plan
Annexure - XVII	Advertisement Published in Newspapers
Annexure - XVIII	Ack. Copy of Last Six-Monthly Compliance Report Submitted for Period January 2022 to June 2022
Annexure - XIX	Total water Requirement.
~~Annexure - XX~~ Annexure - XX	~~Total Water Requirement~~ Environment management cell.

Ashwamedh Engineers & Consultants
Laboratory Services Division
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ULR-TC550924000018109F

TEST REPORT

Sample ID : W/08/24/1015	Report No. W/08/24/1015	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	CRI 1st Floor West Wing - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.23**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**70**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.16**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G.357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**35**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**1.2 x 10^3**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

Akshata Pagare
Senior Analyst (Biological)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

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ULR-TC550924000018109F

Sample ID : W/08/24/1015	Report No. W/08/24/1015	Report Date	24/08/2024

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End of Report

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by

Note:
1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.

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ULR-TC550924000018110F

TEST REPORT

Sample ID : W/08/24/1016	Report No. W/08/24/1016	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	Pump House No. 2 - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.44**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**68**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.19**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl,G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**29**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**2.1×10^2**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Absent**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Absent**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.
Remark: The analysed Water Sample results conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the parameters tested.

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Sample ID : W/08/24/1016	Report No. W/08/24/1016	Report Date	24/08/2024

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End of Report

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Laboratory Services Division

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ULR-TC550924000018111F

TEST REPORT

Sample ID : W/08/24/1017	Report No. W/08/24/1017	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	Retreat Canteen - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.27**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**74**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.09**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.24**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**32**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**3.7×10^5**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

Akshata Pagare
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ULR-TC550924000018111F

Sample ID : W/08/24/1017	Report No. W/08/24/1017	Report Date	24/08/2024

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End of Report

Ninad Soundankar
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ULR-TC550924000018112F

TEST REPORT

Sample ID : W/08/24/1018	Report No. W/08/24/1018	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	GYM - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.76**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**90**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**BLQ (LOQ:0.05)**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.24**	Min. 0.2	mg/L	APHA 24th Ed. 4500- Cl.G.357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**37**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**1.1 x 10^4**	Not specified	CFU/ml	APHA. 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

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ULR-TC550924000018112F

Sample ID : W/08/24/1018	Report No. W/08/24/1018	Report Date	24/08/2024

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ULR-TC550924000018113F

TEST REPORT

Sample ID : W/08/24/1019	Report No. W/08/24/1019	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	RRU 2nd Floor - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**8.16**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**88**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.15**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G.357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**37**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**4.4 x 10^5**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

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ULR-TC550924000018113F

Sample ID : W/08/24/1019	Report No. W/08/24/1019	Report Date	24/08/2024

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ULR-TC550924000018114F

TEST REPORT

Sample ID : W/08/24/1020	Report No. W/08/24/1020	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	RRS 3rd Floor A Wing - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.60**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**74**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.08**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**32**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**2.4 x 10^2**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

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ULR-TC550924000018114F

Sample ID : W/08/24/1020	Report No. W/08/24/1020	Report Date	24/08/2024

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End of Report

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ULR-TC550924000018115F

TEST REPORT

Sample ID : W/08/24/1021	Report No. W/08/24/1021	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	RRS 2nd Floor A Wing - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.49**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**70**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**BLQ (LOQ:0.05)**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.22**	Min. 0.2	mg/L	APHA 24th Ed.,4500- Cl.G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**34**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**8.7×10^2**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

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ULR-TC550924000018115F

Sample ID : W/08/24/1021	Report No. W/08/24/1021	Report Date	24/08/2024

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ULR-TC550924000018116F

TEST REPORT

Sample ID : W/08/24/1022	Report No. W/08/24/1022	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	RSS Canteen Ground Floor - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No 4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.31**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**68**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**BLQ (LOQ:0.05)**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.22**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G.357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**34**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**3.8 x 10^4**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Absent**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Absent**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.
Remark: The analysed Water Sample results conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the parameters tested.

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ULR-TC550924000018116F

Sample ID : W/08/24/1022	Report No. W/08/24/1022	Report Date	24/08/2024

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ULR-TC550924000018117F

TEST REPORT

Sample ID : W/08/24/1023	Report No. W/08/24/1023	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	Hadran Ground Floor - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.41**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**76**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.14**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G.357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**36**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**7.4 x 10^3**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Present**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Present**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Remark: The analysed Water Sample results do not conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the *Escherichia coli*, Total Coliforms parameters.

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ULR-TC550924000018117F

Sample ID : W/08/24/1023	Report No. W/08/24/1023	Report Date	24/08/2024

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End of Report

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ULR-TC550924000018118F

TEST REPORT

Sample ID : W/08/24/1024	Report No. W/08/24/1024	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	Asha Nivas 1st Floor Canteen - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.24**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**73**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**BLQ (LOQ:0.05)**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.24**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**33**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**3.1 x 10^4**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Absent**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Absent**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.
Remark: The analysed Water Sample results conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the parameters tested.

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ULR-TC550924000018118F

Sample ID : W/08/24/1024	Report No. W/08/24/1024	Report Date	24/08/2024

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ULR-TC550924000018119F

TEST REPORT

Sample ID : W/08/24/1025	Report No. W/08/24/1025	Report Date	24/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	CIDCO Intet Water Maintank - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	23/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.18**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**64**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.09**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl.G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**29**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**5.1×10^3**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Absent**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Absent**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Present**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.
Remark: The analysed Water Sample results conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the parameters tested.

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Sample ID : W/08/24/1025	Report No. W/08/24/1025	Report Date	24/08/2024

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ULR-TC550924000018120F

TEST REPORT

Sample ID : W/08/24/1026	Report No. W/08/24/1026	Report Date	21/08/2024
Name and address of Customer	**Tata Memorial Centre** Advanced Centre for Treatment, Research & Education in Cancer, Plot No. 1 & 2, Sector 22, Kharghar, Navi Mumbai - 410210,Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Drinking Water
Sampling Location	Shanti Sadan 3rd Floor - Water Cooler	Date - Sampling	14/08/2024
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 2 no. sterile glass bottle	Date - Receipt of Sample	15/08/2024
Sampling Procedure	IS 1622:1981 & APHA 24th Ed., 2023, 1060 B, 44, 9060 A,1094 & 9060 B, 1097 & ISO 19458:2006	Date - Start of Analysis	15/08/2024
Order Reference	W.O. No. ACT/PRJ/24/CIV/00065/7021	Date - Completion of Analysis	20/08/2024

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	**1**	Max. 5	Hazen Units	IS 3025 (Part 4),Method No.4: 1983
2	Odour	**Agreeable**	Agreeable	-	IS 3025 (Part 5):2018
3	pH value (at 25°C)	**7.37**	6.5 - 8.5	-	IS 3025 (Part 11):2022
4	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	NTU	IS 3025 (Part 10):2023
5	Total Dissolved Solids	**66**	Max. 500	mg/L	IS 3025 (Part 16): 2023
General Parameters concerning substances undesirable in excessive amounts					
6	Chloride (as Cl)	**BLQ (LOQ:5)**	Max. 250	mg/L	ISO 15923-1:2017
7	Fluoride (as F)	**0.29**	Max. 1	mg/L	ISO 15923-2:2017
8	Free Residual Chlorine	**0.23**	Min. 0.2	mg/L	APHA,24th Ed.,4500- Cl,G,357: 2023
9	Iron (as Fe)	**BLQ (LOQ:0.06)**	Max. 1	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
10	Total Hardness (as $CaCO_3$)	**33**	Max. 200	mg/L	ISO-15923-2: 2017
Biological Testing; Group: Water					
Microbiological Parameters					
11	Total Bacterial Count (35°C, 48 h)	**4**	Not specified	CFU/ml	APHA, 24th Ed., 9215-B, 1120: 2023
12	*Escherichia coli*	**Absent**	Not Detectable	/100 ml	IS 15185:2016
13	Total Coliform	**Absent**	Not Detectable	/100 ml	IS 15185:2016
14	*Pseudomonas aeruginosa*	**Absent**	Not specified	/100 ml	Annex D of IS 13428:2005

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.
Remark: The analysed Water Sample results conform with Acceptable Limit (wherever specified) as per IS 10500:2012 [With Amendment No.1,2,3 and 4] Standard with respect to the parameters tested.

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Sample ID : W/08/24/1026	Report No. W/08/24/1026	Report Date	24/08/2024

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