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

Ref No. TMC/ACTREC/SKB/Compliance report/2024-25/ No. 87335

Date: 04th September 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 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 No. EC24B039MH110605 Dated 6th February 2024 for Environment Clearance for Proposed Development of 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).

04/09/2025

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,
नवी मुंबई 410 210, भारत.
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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
Fax: +91-22-2740 5085

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, Biobank, 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 January 2025 – June 2025 along with the desired information and copies of documents are as under:

1. Data sheet
2. EC Compliance report.
3. Post Monitoring Report (January 2025 – June 2025)

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

04/09/2025

Mr. Satish K. Bhangale
Engineer-In-Charge, Civil
TMC-ACTREC, Kharghar
NAVI MUMBAI 410 210.

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 Centre" in existing

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		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 Development of 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 - Tata Memorial Centre 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

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		construction of Dormitory Building, 'Asha Niwas' 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

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<table>
<tr><td>8.</td><td>Breakup of the project affected population with enumeration of those losing house/dwelling units only agricultural land only. Both dwelling units and agricultural land and landless laborers/artisans:
SC, ST/Adivas</td><td>Not Applicable</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)</td></tr>
</table>

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Environmental Protection Measure	Total Cost (Rs. in lakhs)
Debris/top Soil Management	20
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

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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. 1272.76 Cr
	f) **Actual expenditure incurred on the environmental management plans so far**	Rs. 12.56 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 afforestation, if any** d) **Comments on the viability and sustainability of compensatory afforestation 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	28/11/24

	Energy Conservation	153	6.89
	Environment Monitoring	1	1.6
	Total	**562.81**	**72.91**

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	was monitored by the Regional Office on previous occasions, if any	
	(b) Date of site visit for this monitoring report	Please refer Post Monitoring Report.
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. 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 Development of 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

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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 1,63,947 Sq. mt. area is completed out of 2,20,169 Sq. mt. 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 does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.**	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 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 Development of 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 layout plan & before according commencement**	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 for CCE Building & RRU Building, Archive &

	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.	Record Storage Building, Hemato Lymphoid Block, Hadron & RRU, Asha Niwas, Biobank and Sanghvi Block 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 starting construction activities and to be maintained throughout construction phase.**	Right now, the construction of Sanghavi Block is in progress. Following sanitary & 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.
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. **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 debris will be used for maintaining green belt development and filling the plot respectively.
xii.	**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.**	Soil received from excavation in foundation is utilized for the leveling.
xiii.	**Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agricultural Dept.**	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.
xiv.	**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**	• 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

<table>
<tr><td></td><td>authority.</td><td>development at Hematolymphoid Block.<table><tr><th>Waste Generation</th><th>Existing</th><th>Proposed Hematolymphoi 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 waste and convert that into compost, used as manure.</td></tr>
<tr><td>xv.</td><td>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.</td><td>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.</td></tr>
<tr><td>xvi.</td><td>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.</td><td>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.</td></tr>
</table>

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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 conform to environments (Protection) Rules prescribed for air and noise emission standards.**	Yes, DG sets of 2 nos. × 1500 KVA is proposed for Hematolymphoid Block and DG sets of 2 Nos. × 625 and 2 Nos. × 2000 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.

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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 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).**	Project site is not located within 100 km 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.

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		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 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.**	At ACTREC campus, installation of 600 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 /**	To draw ground water for construction purpose, necessary permission will be obtained.

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	operation of the project.	
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 quality double glass with special reflective coating in windows.**	Yes. Use of glass is restricted to minimum requirement.
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 CRI (Khanolkar Sodhika), CRC (Paymaster sodhika) 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

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		d. Energy efficient drives At RRS (Raja Rao Sodhika), Ward block (Jussaiwala sodhika) 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 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

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		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. • 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**	The walls will meet all prescriptive requirements as per Energy Conservation Building Code.

	to fulfill requirement.	
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)/ 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 Development of

		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 reports to Department and MPCB regularly. Ack copy of last six-monthly compliance report submitted for period July 2024 to December 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 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.**	Separate funds are maintained for Environment Management Plan. 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**	Half yearly compliance reports are submitted to the MPCB & concerned department. Ack copy of last six-monthly compliance report submitted for period July 2024 to December 2024 is enclosed herewith as **Annexure- XVIII.**

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	of each calendar year.	
I.	**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.
Ii.	**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 displayed at a convenient location near the main gate of the company in the public domain.**	Yes, monitoring at the site is carried out through MoEF recognized Laboratory regularly. Please refer Annexure – I.
Iii.	**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 July 2024 to December 2024 is enclosed herewith as **Annexure- XVIII.**
Iiii.	**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**	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

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	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.	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. • 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 Development of 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.**

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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 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.**	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 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.

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<table>
<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>roposed Bio Bank</th><th>ropose d Shan ghvi Bloc k</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.

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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 2025 to June 2025
Annexure - XIX	Total water Requirement.
~~Annexure - XX~~ Annexure - XX	~~Total Water Requirement~~ Environment management cell.

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Aavanira Biotech (P) Ltd. Kinetic Innovation Park, D-1 Block, Plot No. - 18/1 Part,
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CIN NO. U74900PN2010PTC137544

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Ambient Air Quality Monitoring Report

REPORT NO.AB/ACT/06/2025-26/58

Client Details Name & Address:

Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC).
Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210

Sample Code	**AB/ACT/06/2025-26/58**
Sample Location	**Near Main Gate**
Sample Collected By	**Aavanira Biotech Pvt. Ltd.**
Sample type	**Ambient Air**
Method of Sampling	**As per IS : 5182 Part 1 (2017)**
Date of Sampling	**05/06/2025**
Time of Sampling	**11:10 am.**
Sampling Duration	**08 Hrs.**
Ambient Temp.(Max./Min.)	**29.8°C/21.5°C**
Relative Humidity(RH)	**58 %**
Analysis Date	**06/06/2025 to 13/06/2025**
Reporting date	**13/06/2025**

TESTPARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	55.96	µg/m^3	≤ 100	IS 5182 Part 23 : 2006 (R.A.:2017)
2	Particulate Matter ($PM_{2.5}$)	22.17	µg/m^3	≤ 60	IS 5182 Part 24 : 2019
3	Sulphur Dioxide (SO_2)	19.7	µg/m^3	≤ 80	IS 5182 Part 2 : 2001 (R.A.:2017)
4	Nitrogen Dioxide(NO_2)	20.0	µg/m^3	≤ 80	IS 5182 Part 6 : 2006 (R.A.:2017)
5	Carbon Monoxide (CO)	0.15	mg/m^3	≤ 04 (1 Hr.)	IS 5182 Part 10 : 1999 (R.A.:2019)

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report----

AAVANIRA BIOTECH (P) LTD. * PUNE *

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Ambient Air Quality Monitoring Report

REPORT NO.AB/ACT/06/2025-26/59

Client Details Name & Address:		
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC). Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210	**Sample Code**	**AB/ACT/06/2025-26/59**
	Sample Location	**Near CCE Building**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.**
	Sample type	**Ambient Air**
	Method of Sampling	**As per IS : 5182 Part 1 (2017)**
	Date of Sampling	**05/06/2025**
	Time of Sampling	**11:35 am.**
	Sampling Duration	**08 Hrs.**
	Ambient Temp.(Max./Min.)	**30.0°C/21.8°C**
	Relative Humidity(RH)	**57 %**
	Analysis Date	**06/06/2025 to 13/06/2025**
	Reporting date	**13/06/2025**

TESTPARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM_{10})	51.30	µg/m^3	≤ 100	IS 5182 Part 23 : 2006 (R.A.:2017)
2	Particulate Matter ($PM_{2.5}$)	20.38	µg/m^3	≤ 60	IS 5182 Part 24 : 2019
3	Sulphur Dioxide (SO_2)	17.5	µg/m^3	≤ 80	IS 5182 Part 2 : 2001 (R.A.:2017)
4	Nitrogen Dioxide(NO_2)	18.2	µg/m^3	≤ 80	IS 5182 Part 6 : 2006 (R.A.:2017)
5	Carbon Monoxide (CO)	0.10	mg/m^3	≤ 04 (1 Hr.)	IS 5182 Part 10 : 1999 (R.A.:2019)

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

----End of Report----

AAVANIRA BIOTECH (P) LTD. * PUNE *

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Ambient Noise Monitoring Report

REPORT No. AB/ACT/06/2025-26/60

Client Details Name & Address:		
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC). Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210	**Sample Code**	**AB/ACT/06/2025-26/60**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.**
	Sample type	**Ambient Noise**
	Method of Sampling	**As per IS : 4758**
	Date of Sampling	**05/06/2025**
	Reporting date	**13/06/2025**

Sr. No.	Test Location	Reading	Reading	Unit
		Day Time	Night Time	
1.	Near Main Gate	53.1	44.0	dB(A)
2.	Near CCE Building	52.8	41.6	dB(A)

REMARK / OBSERVATIONS:

Limits: Maharashtra Pollution Control Board has prescribed following limit for noise Level during day& night time. Above results are within the prescribed limits by MPCB.

Area	Category of Area	Limits dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	<75	<70
B	Commercial Area	<65	<55
C	**Residential Area**	**<55**	**<45**
D	Silence Zone	<50	<40

- **Note: 1 Day Time shall mean from 06:00 am to 10:00 pm**
- **Note: 2 Night Time shall mean from 10:00 pm to 06:00 am**

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report----

AAVANIRA BIOTECH (P) LTD. * PUNE *

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Work zone Noise Monitoring Report Report No. AB/ACT/06/2025-26/61

Client Details Name & Address:		
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC). Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210	**Sample Code**	**AB/ACT/06/2025-26/61**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Workzone Noise**
	Method of Sampling	**IS : 4758 (RA:2017)**
	Date of Sampling	**05/06/2025**
	Reporting date	**13/06/2025**
	Instrument Details	**Sound Level Meter , AB/Tech/Instr/200**

Sr. No.	Test Location	Reading		Unit
		Daytime	Night Time	
1	RRS Building(Waiting Area)	68.5	59.2	dB(A)
2	RRU Building	66.3	58.7	dB(A)

REMARKS / OBSERVATIONS:

- **Limits:** The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.
- All above results are within MPCB standard limits.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

----End of Report----

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Test Report

REPORT NO-AB/ACT/06/2025-26/62

Client Details Name & Address: **Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) /** **Tata Memorial Centre (TMC).** **Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210**	**Sample Code**	**AB/ACT/06/2025-26/62**
	Sample Name	**Drinking Water – CRC Building – 3rd Floor**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.**
	Method for Sampling	**IS : 3025 Part 1 (R.A.:2019)**
	Sample Type	**Drinking Water**
	Sample Collected On	**05/06/2025**
	Sample Received on Date	**06/06/2025**
	Analysis Date	**06/06/2025 to 13/06/2025**
	Reporting Date	**13/06/2025**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

Sr. No.	Parameter	Results	Limits as per IS:10500	Units	Standard Method
1.	Turbidity	0.60	<1.0	mg/lit	IS: 3025 Part-10 (R.A : 2017)
2.	TDS(Total Dissolved Solids)	64.0	<500	NTU	IS: 3025 Part-16 (R.A : 2017)
3.	Colour	1.0	<5	Hazen Units	IS: 3025 Part-04 (R.A : 2017)
4.	pH (at 25°C)	7.54	6.5-8.5	--	IS: 3025 Part-11 (R.A : 2017)
5.	Total Hardness (as $CaCO_3$)	18.20	<200	mg/lit	IS: 3025 Part-21 (2019)
6.	Total Alkalinity(as $CaCO_3$)	20.16	<200	mg/lit	IS: 3025 Part-23 (R.A : 2019)
7.	Chloride (as Cl^-)	13.0	<250	mg/lit	IS: 3025 Part-32 (R.A : 2019)
8.	Sulphate (asSO_4^{-2})	1.61	<200	mg/lit	APHA :23rd edition -(4500- SO_4^{2-} E)
9.	Residual Chlorine	BDL	0.2	mg/lit	APHA :23rd edition -(4500-Cl B)
10.	Iron (as Fe)	BDL	<0.30	mg/lit	IS:3025 Part-02 (2019)
11.	Calcium (as Ca)	8.96	<75.0	mg/lit	IS:3025 Part-02 (2019)
12.	Magnesium (as Mg)	1.77	<30.0	mg/lit	IS:3025 Part-02 (2019)
13.	Total Coliform	Absent	Absent	MPN/100ml	IS: 1622 (R.A : 2019)
14.	*Escherichia coli*	Absent	Absent	MPN/100ml	IS: 1622 (R.A : 2019)

BDL- Below Detection Limit

REMARKS / OBSERVATIONS: All above parameters are within limit as per IS: 10500 (2012) standard.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report----

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Source Emission Monitoring Report

Report No. AB/ACT/06/2025-26/63

Client Details Name & Address:		
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC). Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210	**Sample Code**	**AB/ACT/06/2025-26/63**
	Sample Location/Attached To	**DG Set - 2000 KVA (Hydron)**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Stack**
	Method of Sampling	**IS:11255 & CPCB Manual**
	Date of Sampling	**05/06/2025**
	Time of Sampling	**12:45 pm.**
	Analysis Date	**07/06/2025 to 13/06/2025**
	Reporting date	**13/06/2025**
	Instrument Details	**Stack Monitoring Kit , AB/Tech/Instr/140**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height	15.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	H.S.D.	--
5	Flue Gas Temperature	511	^{o}K
6	Differential Pressure	13.5	mmWG
7	Velocity	16.98	m/s
8	Diameter of Stack	0.254	mtr.
9	Stack Area	0.05065	m^2
10	Gas Volume	1805.45	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB	Standard Method
1	Total Particulate Matter (TPM)	95.65	mg/Nm^3	≤ 150	IS 11255 Part 1:1985(R: 2019)
2	Sulphur Dioxide(SO_2)	97.12	mg/Nm^3	--	IS 11255 Part 2:1985(R: 2019)
		4.21	Kg/day	--	
3	Oxides of Nitrogen(NOx)	12.8	mg/Nm^3	--	IS 11255 Part 7:2005(R: 2017)

REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report----

AAVANIRA BIOTECH (P) LTD. PUNE

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Source Emission Monitoring Report

Report No. AB/ACT/06/2025-26/64

Client Details Name & Address:		
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC). Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210	**Sample Code**	**AB/ACT/06/2025-26/64**
	Sample Location/Attached To	**DG Set 1500 KVA (RRS)**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.,**
	Sample type	**Stack**
	Method of Sampling	**IS:11255 & CPCB Manual**
	Date of Sampling	**05/06/2025**
	Time of Sampling	**01:30 pm.**
	Analysis Date	**07/06/2025 to 13/06/2025**
	Reporting date	**13/06/2025**
	Instrument Details	**Stack Monitoring Kit , AB/Tech/Instr/140**
Sample returned /stored	**Stored at 4°C for 1 week from the date of reporting**	

STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height	15.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	H.S.D.	--
5	Flue Gas Temperature	488	^{o}K
6	Differential Pressure	11.7	mmWG
7	Velocity	15.45	m/s
8	Diameter of Stack	0.254	mtr.
9	Stack Area	0.05065	m^2
10	Gas Volume	1719.94	Nm^3/Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB	Standard Method
1	Total Particulate Matter (TPM)	89.48	mg/Nm^3	≤ 150	IS 11255 Part 1:1985(R: 2019)
2	Sulphur Dioxide(SO_2)	82.34	mg/Nm^3	--	IS 11255 Part 2:1985(R: 2019)
		3.40	Kg/day	--	
3	Oxides of Nitrogen(NOx)	6.0	mg/Nm^3	--	IS 11255 Part 7:2005(R: 2017)

REMARK / OBSERVATIONS:

- All above results are within MPCB Limits.

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

----End of Report----

AAVANIRA BIOTECH (P) LTD. * PUNE *

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DG Insertion Loss Monitoring Report

Report No. AB/ACT/06/2025-26/65

Client Details Name & Address:		
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC) / Tata Memorial Centre (TMC). Plot - 1 & 2, Sector - 22 Kharghar, City of Panvel- 410210	**Sample Code**	**AB/ACT/06/2025-26/65**
	Sample Type	**DG Insertion Loss Noise**
	Method of Sampling	**IS : 4758 (RA:2017)**
	Sample Collected By	**Aavanira Biotech Pvt. Ltd.**
	Sample Collected On	**05/06/2025**
	Reporting Date	**13/06/2025**
	Instrument Details	**Sound Level Meter, AB/Tech/Instr/223**

Sr. No.	Test Location	DG ON (Open) Door 0.5 Meter away	DG ON (Closed Door 0.5 Meter away)					For Insertion Loss	Unit
			N1	N2	N3	N4	Avg.		
1.	DG Set 2000 KVA	100.8	74.5	74.2	74.7	74.3	74.4	26.4	dB(A)
2.	DG Set 1500 KVA	100.1	74.3	74.1	74.3	74.0	74.2	25.9	dB(A)

REMARK / OBSERVATIONS:

- The acoustic enclosure /acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss for meeting the ambient noise standards, whichever is on higher side. Above results are Complies with MPCB limits

Verified By – Quality Manager

Authorized By – Technical Manager / Dy. Technical Manager

Govt. Analyst

-----End of Report----

AAVANIRA BIOTECH (P) LTD. * PUNE *