

टाटा स्मारक केंद्र TATA MEMORIAL CENTRE

टाटा स्मारक अस्पताल TATA MEMORIAL HOSPITAL

AA No. 1151849

प. ऊ. वि.भारत सरकार का एक सहायता अनुदान प्राप्त संस्थान A GRANT-IN-AID INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY. GOVT OF INDIA

TMC/ACTREC/MPCB-14

Date: 12th October 2022

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.

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 Storage), Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" & Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU), Asha Niwas and Biobank at ACTREC. Plot No. 1 & 2, sector 22 at Khargar, Navi Mumbai.

Website: http://tmc.gov.in

Construction activities are started at site from 15th September 2013.

Contd...2/-

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हॉ. ई. बोर्जेस मार्ग, परेल, मुंबई - ४०० ०१२. भारत. दूरभाष : +९१-२२-२४१७ ७००० फैक्स : +९१-२२-२४१४ ६९३७

जल्द इलाज होने पर कैंसर ठीक हो सकता है।

In compliance to the conditions stipulated in Environmental Clearance we are submitting the six-monthly Compliance Status Report for the period of July 2021 – December 2021 along with the desired information and copies of documents are as under:

- 1. Data sheet
- 2. EC Compliance report.
- 3. Post Monitoring Report (July 2021 December 2021)

We understand that the report prepared by M/s. Aditya Environmental Services Pvt. Ltd, Consultant is as per requirements.

We hope the above is to your satisfaction.

Thanking You,

Yours faithfully,

(G S Dhanoa) Chief Engineer, TMC

Encl: a/a

CC-to:

- 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.
- 3. The Secretary, Environment Department, Room No. 217, 2nd Floor, Mantralaya Annexe, Mumbai 400 032.

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
To	M/s. Tata Memorial Hospital
For	 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
Status	Construction of total 16311.96 Sq. mt. area is completed out of 110712.03 Sq. mt. Built up area.

Construction phase

S. No.	Conditions	Compliance Status
	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. 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	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

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G. S. DHANOA CHIEF ENGINEER, TMC accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving before lavout plan & commencement according certificate to proposed work. approving authority should also ensure the zoning for permissibility the proposed project as per the approved development plan of the area.

Certificate for CCE Building & RRU Building, Archive & 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 is attached as **Annexure – V.**

ii. "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.

All required sanitary and hygienic measure should be in place before starting construction activities and to be maintained throughout construction phase.

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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.

shall Project proponent ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. No physical occupation or allotment will be given above said all environmental infrastructure made is installed and 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 and Hadron Project are received & are attached as Annexure – VII.

Sewage generated after the completion of ongoing projects Radiological Research Unit & Administrative Block (RRU), proposed expansion "Hemato Lymphoid Block" and for Asha Niwas will be connected to CIDCO sewer network which have STP at the end, the treated water shall be supplied by CIDCO to ACTREC for Horticulture. STP of 40 cmd capacity for Hadron Project is commissioned successfully. Photograph of STP enclosed as **Annexure – VIII**.

Considering on-going projects as well as proposed Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Ceptre", a

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centralized STP of 600 KLD capacity is proposed for ACTREC campus. 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. Provision shall be made for Yes, Provision for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile the housing of construction toilets with drainage connection to existing sewer network, safe labour within the site with all necessary infrastructure and drinking water, medical health care, first aid room etc. facilities such as fuel for Please refer enclosed Annexure - IX for facilities for labours provided at toilets, cooking, mobile mobile STP, safe drinking water, medical health care, crèche and First Aid Room Adequate drinking water and · Yes, safe & clean drinking water is provided through CIDCO to vii. sanitary facilities should be workers. Again, RO plants are installed at site. provided for construction Sewage generated from the project is connected to CIDCO sewer workers at the site. Provision network which have STP at the end, the treated water being supplied should be made for mobile by CIDCO to ACTREC for Horticulture. toilets. The safe disposal of The solid waste generated from labour camp being sent to approved wastewater and solid waste landfilling site after segregation and sale of recyclables & inerts. during the generated Other construction waste generated during construction which construction phase should be includes debris, concrete, steel and other metals, bricks, pallets, ensured. 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. Total Non - Hazardous Solid waste generated at the site is 110.50 The solid waste generated iii. Kg/Day for existing and 788.5 Kg/Day for proposed facility which should be properly collected include Construction debris, Dry Waste, Wet Waste & STP Sludge and segregated. Dry / inert solid waste should (Dry Sludge) For Biobankdisposed off to the approved sites for land filling after Dry-Existing: 187.5 Proposed: 0.75 recovering recyclable Wet-Existing: 187.5 Proposed: 0.5 material. 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

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		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
1	Wet garbage should be treated by Organic Waste	Wet garbage generated from the construction of the building will be treated in Nisargruna Biogas Plant provided at the ground level in the
	Converter and treated waste	premises. The manure thus generated will be used for gardening.
	(manure) should be utilized	Photographs and details of Nisargruna biogas plant are enclosed as
	in the existing premises for	Annexure - X.
-	gardening. And, no wet	
1	garbage will be disposed	
- 1	outside the premises. Local	
	authority should ensure this.	a a la di di la contra di di di la contra di di di la contra di
Х.	Arrangement shall be made	Yes, Separate drainage line will be provided to prevent mixing of
	that wastewater and storm	wastewater and storm water.
	water do not get mixed.	is a got a literate the state of the maintaining
xi.	All the topsoil excavated	
	during construction activities	green belt development.
- 1	should be stored for use in	A 1 1111
	horticulture landscape	
	development within the	
_	project site.	and filling the plot respectively.
xii	Additional soil for leveling of the proposed site shall be	Soil received from excavation in foundation is utilized for the leveling.
	generated within the sites (to	
	the extent possible) so that	
1	natural drainage system of	
1	the area is protected and	
	improved.	C
xiii	Green beit development shall	Green belt development will be carried out as per CPCB guidelines. Currently, Green belt development are in progress at Hadron, Asha
	be carried out considering	
	CPCB guidelines including	Niwas Buildings & Shanghvi Block
-	selection of plant species and	Dlange refer Amparage VI for green helt developed within site
	in consultation with the local	Please refer Annexure – XI for green belt developed within site.
_	DFO/ Agricultural Dept.	man and the state of the state
	Disposal of muck during	 Total Non - Hazardous Solid waste generated at the site from
xiv		the second of th
xiv	construction phase should be create any adverse effect on	existing/proposed facility which include Construction debris, Dry

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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.

Waste, Wet Waste & STP Sludge (Dry Sludge)

610 cu.m. topsoil out of 990 cu.m. preserved topsoil is used for

landscape development at Hematolymphoid Block.

Waste Generation	Existing	Proposed Hematolymphoid Block and Hadron & RRU) & Asha Niwas	Proposed Shanghvi Block	Proposed Bio Bank
Non- Biodegradable	55.25 kg/day	600.74 kg/day	95.2 kg/day	0.75 kg/day
Bio- degradable waste	55.25 kg/day	477.56 kg/day	74.8 kg/day	0.5 kg/day
STP Sludge	0.1 kg/day	0.1 kg/day	25 kg/day	0.1 kg/day

Disposal of Solid Waste:

- The excavated topsoil & construction debris was partly used for backfilling and partly will be used for maintaining slope and filling
- 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.

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.

spoils, xvi Constructions bituminous including other material and hazardous materials must allowed not be watercourses contaminate 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.

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There is no generation of Hazardous waste at the Complex till date, if hazardous xvii Any waste generated will be disposed as per MPCB norms. generated during construction phase should be disposed off as per applicable Waste generation in Operational Phase: and norms rules necessary approvals of the Biomedical waste generation pollution Maharashtra For RRU & CCE: 1000 Kg/Month control Board. 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. Yes, DG sets of 2 nos. × 1500 KVA are proposed for Hematolymphoid xviii The diesel generator sets to Block, DG sets of 2 Nos. × 625 and 2 Nos. × 2000 KVA are proposed for be used during construction RRU and Hadron respectively & DG sets of 3 Nos x 1250 KVA are phase should be low sulphur proposed for Sanghvi Block which will be operated only during power diesel should type and failure during operation phase & will be provided with enclosure. Diesel conform to environments generating sets will be of low sulphur diesel type as per environments (Protection) Rules (Protection) Rules prescribed for air and noise emission standards. prescribed for air and noise 1 Nos. of DG set of capacity 50 KVA is provided for Biobank. emission standards. Photographs of DG sets are enclosed as Annexure - XII. AS per norms, 990 litre day tank is provided with each DG set. xix The diesel required operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken. Right now, the construction of Hematolymphoid Block & RRU Building xx Vehicle hired for bringing construction material to the are in progress. site should be in good The vehicles hired for bringing construction material such as concrete, condition and should have sand, cement etc at site will have valid PUC. All vehicles are less than 8 pollution check certificate years old only. The vehicles used for bringing construction material will and should conform to be operated only during non-peak hours. applicable air and noise standards emission and should be operated only during non-peak hours. Yes, the Ambient Noise & Ambient Air monitoring will be regularly xxi Ambient noise levels should carried out at the boundary wall of the premises as per environmental be conform to residential protection act 1986. Please refer Annexure - I for post monitoring standards both during day & night Incremental pollution reports. loads on the ambient air & Following measures will be taken to reduce load on Ambient Noise noise quality should be & Air: closely monitored during Temporary barricades will erect around the premises. construction phase. Adequate

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	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.	 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 27th August, 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.
cxiii	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, Biobank and Hadron Building, of which construction work is completed. It is being used for the ongoing construction works of Hematolymphoid Block, RRU 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 and Hadron 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.
kxvii	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	Sewage generated from the project will be connected to CIDCO sewer network which have STP at the end, the treated water shall be supplied by CIDCO to ACTREC for Horticulture. Copy of sanction letter from CIDCO for treatment of sewage from ACTREC is attached as Annexure - XV. At Hadron Building, installation of 40cmd capacity STP is completed.

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	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.	Considering on-going projects as well as proposed Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity is proposed for ACTREC campus.
	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 and Hadron Project. 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.	During the construction of projects, water for construction purpose was arranged by Contractors through water tankers bought from outside the campus and therefore Ground water was not used for the construction purpose. 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 and Hadron Building for separation of grey and black water. And for Hematolymphoid Block, RRU, and Asha Niwas Building dual plumbing lines are designed and now the construction activites are in progress. 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.
exxiii	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.
txxiv	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	requirement as per Energy Conservation Building code.

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conservation xxxv Energy 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 disposed and off/sent for recycling as per the prevailing guidelines/rules the of 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 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 work is in progress:

- 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
- 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
- I. 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

Yes, DG sets are operated only during power failure & are being provided with enclosure.

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	Maharashtra Pollution Control Board.	
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 2 wheelers approved: 11 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.	
x	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air, and ventilation	

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	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.
XIII	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.	 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
	Six monthly monitoring reports should be submitted to the Department and MPCB. A complete set of all the documents submitted to	ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019. Yes, we are submitting Six monthly environmental clearance compliance reports to Department and MPCB regularly. Yes, a complete set of all the documents submitted to MoEF shall be forwarded to MPCB.
xlv	Department should be forwarded to the MPCB In the case of any change(s) in the scope of the project,	Yes, in the case of any change(s) in the scope of the project, fresh appraisal will be taken.
xlvi	the project would require a fresh appraisal by this Department.	
AIVI	management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Yes, separate environment management cell will be 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	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.
	earmarked for the environment protection measures shall not be	

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	diverted for other purposes	
	and year wise expenditure	
	should reported to the MPCB	
	& this department.	
dviii	The project management	Yes, we have published the advertisement in two local newspapers.
	shall advertise at least in two	Same is attached as Annexure - XVII.
	local newspapers widely	10
	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.	
		11.16 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
XIIX	Project management should	
	submit half yearly	department.
	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	
1,100	vear.	
	A copy of the clearance letter	Noted
	shall be sent by proponent to	110104
	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.	
li	The proponent shall also	Yes, monitoring at the site is carried out through MoEF recognized
1	submit six monthly reports	Laboratory regularly. Please refer Annexure – I.
	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	6-

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simultaneously be sent to the Regional Office of MoEF, the respective zonal office of CPCB and the SPCB. The pollutant criteria 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. lii The project proponent shall

y in

Yes, we are submitting Six monthly environmental clearance compliance report regularly. Ack. copy of last six-monthly compliance report submitted for period of January 2021 - June 2021 is enclosed herewith as Annexure -- XVIII.

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, Environment statement will be submitted to MPCB according to the condition in consent.

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 to the respective Regional Office of MoEF by email.

Additional Conditions as per Environmental Clearance vide No. SEAC 2213/CR 352/TC II

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,

environmental 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

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	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.	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-000000084 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.
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.
	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.	
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	Existing Sewage generation is about 108.14 m³. Additional sewage generated from proposed hospital facility (Hematolymphoid Block) will be about 160 m³ and 100 m³ 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

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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 installed and made functional including water requirement in Para 2. Prior certification appropriate authority shall be obtained.

addition, 40cmd capacity STP is commissioned at Hadron site. 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 is proposed for ACTREC campus and now the construction work is in progress.

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.

Yes, Total waste generation in the pre-construction and construction phase:

Waste Generation	Existing	Proposed (Hematolymphoid Block and Hadron & RRU)	Proposed Bio Bank	Proposed Shanghvi Block
Non- Biodegradable	55.25 kg/day	513.8 kg/day	0.75 kg/day	95.2 kg/day
Bio- degradable waste	55.25 kg/day	274.7 kg/day	0.5 kg/day	74.8 kg/day
STP Sludge	0.1 kg/day	0.1	0.1 kg/day	25 kg/day

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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DATA SHEET

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TATA MEMORIAL HOSPITAL

		**																			775.5		CHE TO THE		6.			2006			ណុ				
																				52					Salient features Of the project			numbers)	Code and telephone/telex/fax	Project Chief Enginee	Address of the Concerned		d) Latitude/Longitude		b) State (s)
Entrance Structure	Electrical Substation	Medical Gas Manifold	Utility Block	Block	Hematolymphoid	Total Buildings - 2	lanuary 2016)	(As per EC array	Existing Total Built Up Area: 22,750 sq. m.	Existing: Non FSI area: 5250 sq. m.	Existing FSI area: 17, 500 sq. m.	q	Record Storage	Archive &	Epidemiology (CCE)	Cancer	Centre for	Block (RRU)	and	Research Unit	Radiological	Particular	same on 11th December 2015)	(As per EC Date	Total Plot Area: 24, 40, 007.495 sq. m	Email id: singd@tmc.gov.in	Mobile No: 9869451721	Tel No: +91-22-24177000	Parel, Mumbai - 400 012	Block, Tata Mem	Name: G.S. Dhanoa; Chief Engineer	73º0.3'49.88" E	19004'03.76" N	Plot No. 1 & 2, se	Maharashtra
ure	ation	nifold			id	2	ited for	r r	iilt Up A	l area: 5	: 17, 50			21			01				01	No. of buildings	ember	d: 8th A	24, 40, 0	tmc.gov	451721	2417700	400 01	orial H	oa; Chie ering Do			ector 22	
ı	н	-	1	٠	-		ex	2	rea:	250	0 sq.		_	_	_	_		11	-	0		-	201		07.4	'n.	·	00	2	ospi	f En			at K	
Ground floor	Ground floor	Ground floor	Ground floor		G+7		(As per et granted for expansion on dated: 12"	rancion on dated: 10th	22,750 sq. m.	sq. m.	.m.		(Design for $G + 4$) =	Existing scope Gr + 04	6000 Sq. m.	(Design for G + 7) =	Existing scope Gr + 03	=/300 sq. m.	(Design for B + G +7)	03	Existing scope B + Gr +	Configuration	(3)	(As per EC Dated: 8th April 2013 & Amendment in	195 sq. m.				•	Block, Tata Memorial Hospital, Dr. E. Borges Road,	Name: G.S. Dhanoa; Chief Engineer Address: Engineering Department 6th floor Service			Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai.	

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Salient features Of the Environmental management plans													
 Energy efficient electrical installation for conserving electricity. Provision of Rainwater Harvesting to conserve natural water. 	FSI area: 25007.10 Sqm Non FSI area : 3057.78 Sqm Total BUA: 28064.88 Sqm	As per EC dated: 7th November 2019 for proposed construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre"	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'	Existing FSI area: 20,682 sq. m. Existing: Non FSI area: 834.50 sq. m. Existing Total Built Up Area: 21516.50 sq. m.	Hadron Facility	administration Block	RRU &	Particular No.	(As per EC dated: 12th January 2018 for proposed construction of Hadron Beam (Proton Therapy) facility and RRU)	Built-up area: 119.88 Sq.m. Total BUA: 18,883.57 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.	Proposed Non FSI: 2032.43 Sq. m.
electrical ty. vater Harve	m 8 Sqm 8qm	ed: 7th November 2019 for of "Shantilal Shanghvi oid Cancer Centre"	sq.m. 76 sq.m 0 sq.m.	January 2 tory Buildi	82 sq. m. : 834.50 sq Area: 215	01	*	01	No. of	on_Beam_	šq.m. šq.m.	pansion & 0084 Dates aving buil or configue the earlier q.m. to 18,8	52.43 Sq. m
installation for esting to conserve		2019 for proposed hanghvi Pediatric		2018 for proposed ng. 'Asha Niwas'	l, m. 16.50 sq. m.	G+1 UF		B+G+7 floors	Configuration	2018 for proposed (Proton Therapy)		Amendment vide 1.4th May 2017) 1t-up area 119.88 ration in the same proposed built up 383.57 Sq.M.	762 60 ca m

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TATA MEMORIAL HOSPITAL

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															wor of can up.	wise break-up	environmental management	Ħ	of price reference:	revised estimates and the year	planned and subsequent	a) Project cost as originally	Financial details:	SC, ST/Adivas	laborers/artisans:	Д	dwelling units and agricultural	only agricultural land only. Both	g hous	n with enumer	Breakup of the project affected	b) Others	non-forest	a) Submergence area forest and	Breakin of the project area					
Sewage		Measure	Protection	Environmental	Block)	II. Operation Phase:	Total	arrangement	First aid	Drinking water +	Toilet for labour +	Management	Debris/topsoil		Protection Measure	Environmental	Block)	1. Construction Phase:			Crores (b) = Rs. 367.59 Crore (a + b)	Existing Rs. 56/- Cro									Not Applicable	Project comes under Industrial Area	1000	Not Applicable	effluent.	Sewage Treatment Plan (STP) to reuse treated	Solid Waste Management	system	• Provision of Energy efficient drives for HVAC	development.
•		in Lakhs)	Cost (Rs.	Capital		(For	50			724	15		35	lakhs)	(De in	Capital		se: (For H			Crore (a +	Crores (a)+										dustrial Ar				olan (STP)	nent		efficient	
-	(Rs. in Lakhs)	annum	Cost Per	Recurring		Hematolymphoid	1				1		N.	(Rs. in lakhs)	Cost Per	Recurring		(For Hematolymphoid			b)	Proposed 311.59								6		ea.				to reuse treated			drives for HVAC	

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Environmental Protection Measure	II. Operation Phase: (For Hadron beam & RRU)	Total	Toilet for labour + Drinking water + First aid arrangement	Debris/top Soil Management	Measure	Environmental Protection	Construction Phase: (For Hadron beam & RRU)	Total	Monitoring	Environment	Landscaping	Electrical Cost	MSW	Harvesting	Rainwater	Treatment Plan
Capital Cost	For Hadror		inking ngement	gement		ection	For Hadro	185.81		1.0	76.81	108	:		:	
Recurring Cost Per	ı beam & RRU)	40	20	20	(Rs. in lakhs)	Total Cost	n beam & RRU)	59.41		1.60	52.92	4.89			B t	

management
Site sanitation Toilets for labour + Drinking water + First aid arrangement Total III. Construction Phase: (Shanghavi Block) Debris / Topsoil **Protection Measure Environmental** 90 35 15 (Rs. in lakhs) **Total Cost**

Rainwater Harvesting

24.76

1.2

0.50 2.50

40

features **Energy Saving** Green Belt

Total

75.76

11.2

Management

Management Solid Waste

(Rs. in Lakhs)

annum (Rs. in Lakhs)

10

02

Biomedical Waste

0

05

IV. Operation Phase: (Shanghavi Block)

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TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL)
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area of reservoir, approach roads),		d) Comments on the viability and sustainability of compensatory afforestration programme in the light of actual field experience	c) The status of compensatory afforestration, if any	f cleaning felling	l for	f) Actual expenditure incurred on the environmental management plans so far	e) Actual expenditure incurred on the project so far	d) Whether (c) includes the cost of environmental management as shown in the above	of return and the year of assessment:	c) Renefit cost ratio/Internal rate							~ /IC\$					
	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Rs. 4.30 Cr	Rs. 257.05 Cr	Not Applicable.	Not Applicable.	Total	Monitoring	Conservation	Energy	Development	Harvesting	Rainwater	MSW/	Sewage		Measure	Protection	Environmental
										562.81	٠	-	153	76.81		20	19	300		in Lakhs)	Cost (Rs.	Capital
										72.91		16	6.89	52.92	-	1	22	8	Lakhs/yr)	annum	Cost Per	Recurring

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TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL)

TATA MEMORIAL HOSPITAL

dated 7th November 2019	
ACTREC vide no. SEIAA-EC-0000002065	
Hematolymphoid Cancer Centre" in existing	
hospital "Shantilal Shanghvi Pediatric	
• Environment Clearance for Addition of one	
Dated 4th May 2017	
Amendment vide No. SEIAA-EC-00000000084	
12.01.2018	
CIDCO/ACP(BP/DP/NT)/EC/2018/642 Date:	
 Amended Environmental Clearance for Asha 	
12.01.2018	
CIDCO/ACP(BP/DP/NT)/EC/2018/643; Date:	
Vide No.	
Research Unit & Administration Block (RRU)	
(Proton Therapy) Facility and Radiological	
• Environmental Clearance for Hadron Beam	subsequently.)
325/TC II Dated: 12th January 2016.	may cover only the letters issued
Lymphoid Block" vide No. SEAC 2213/CR	issued so far, but the later reports
 Expansion of TATA Memorial Hospital "Hemato 	contain the details of all the letters
 Amendment in same on 11th December 2015 	(The first monitoring report may
1, Dated: 8th April 2013	logistic support for site visits.
Storage) vide letter No: SEAC 2013/CR-101/TC-	other than the routine letters for
	status of compliance to safeguards
block - RRU) and Centre for cancer	action plans / information on
• (Radiological Research Unit and Administrative	project authorities for obtaining
EC granted for -	15. Details of correspondence with
Please refer Post Monitoring Report.	monitoring report
	ce on previous occasio
11/09/15	was monitored by the Regional
	(a) The dates on which the project
	14. Dates of site visits
Disputsement of Juna from Bovernment	is yet to start
Dishussament of fund from sourcement	13. Reason for the delay of the project
September 2022 (Planned)	b) Date of completion
September 2013 (Actual)	a) Date of commencement
	12. Status of construction
	on
	if any with quantitative

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