

टाटा स्मारक केंद्र TATA MEMORIAL CENTRE

टाटा स्मारक अस्पताल TATA MEMORIAL HOSPITAL

AA No. 1174223

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-15

Date: 7th December 2022

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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.

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

Contd...2/-

डॉ. ई. बोर्जेस मार्ग, परेल, मुंबई - ४०० ०१२. भारत.

Dr. E. Borges Marg, Parel Mumbai - 400 012, India. Phone: +91-22-2417 7000 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 2021along with the desired information and copies of documents are as under:

- 1. Data sheet
- 2. EC Compliance report.
- 3. Post Monitoring Report (January 2022 June 2022)

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,

07/12/2022

TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL) PAREL, BONIBAY-400012. ENGINEERING DEPARTMENT

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.

DATA SHEET

1.	Project type:	Unwrited Project (Adv. D
	River-valley/Mining/Industry/	Hospital Project (Advance Treatment, Research &
	Thermal / Nuclear/Other (Specify)	Education in Cancer - funded by Government of
2.	Name of the Project	India)
		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) and Construction of Bio Bank storage Building and "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre"
3.	Clearance letter (s)/OM No. And	EC granted for -
	Date	 (Radiological Research Unit and Administrative block - RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) vide letter No: SEAC 2013/CR-101/TC-1, Dated: 8th April 2013 Amendment in same on 11th December 2015 Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" vide No. SEAC 2213/CR 325/TC II Dated: 12th January 2016. Environmental Clearance for Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block (RRU) Vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/643; Date: 12.01.2018 Amended Environmental Clearance for Asha Niwas vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642 Date: 12.01.2018. Environment Clearance for the Expansion & Amendment vide No. SEIAA-EC-0000000084 Dated 4th May 2017. Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-00000002065 dated 7th November 2019

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TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL) PAREL, BOMBAY-400012. ENGINEERING DEPARTMENT

4.	Location:			
	a) District (s)	Navi Mumbai		
	b) State (s)	Maharashtra		
	c) Location	Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai.		
	d) Latitude/Longitude	19º04'03.76" N		
- 1	, ,	73°0.3'49.88" E		
5.	Address for correspondence	Name: G.S. Dhano:	a; Chief E	ngineer
	a) Address of the Concerned			rtment, 6th floor, Service
	Project Chief Engineer (With Pin			oital, Dr. E. Borges Road,
	Code and telephone/telex/fax			
	numbers)	Tel No: +91-22-24	177000	
	,	Mobile No: 98694	51721	
		Email id: singd@t		, I
6.	Salient features	8-2		
	Of the project	Total Plot Area: 2	4, 40, 007	.495 sq. m.
		(As per EC Dated	: 8th Apri	l 2013 & Amendment in
		same on 11th Dece		
		Particular	No. of	Configuration
			buildings	
		Radiological	01	Existing scope B + Gr +
		Research Unit		03
		and		(Design for B + G +7)
	4.	Administrative Block (RRU)		=7500 Sq. m.
		Centre for	01	Existing scope Gr + 03
		Cancer		(Design for $G + 7$) =
		Epidemiology		6000 Sq. m.
		(CCE)		
		Archive &	01	Existing scope Gr + 04
		Record Storage	,	(Design for G + 4) =
			manuscript with the 19.00	4000 sq. m.
		Existing FSI area	17 500	ea m
		Existing: Non FSI		-
		Existing Total Bu		
		LAISTING TOTAL DE	шорт	
		(As per EC granted for expansion on dated: 12		expansion on dated: 12th
		January 2016)		
		Total Buildings – 2		
		Hematolympho		1 G+7
		Block		
		Utility Block		1 Ground floor
				1 (
		Medical Gas Ma	inifold	1 Ground floor
		Electrical Subst	tation	1 Ground floor
		Entrance Struc	ture	1 Ground floor
	1			

TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL) PAREL, GOMBAY-400012. FNGINEERING DEPARTMENT

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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 &	01	B+G+7 floors
administration		
Block		
Hadron Facility	01	G+1 UF

Existing FSI area: 20,682 sq. m. Existing: Non FSI area: 834.50 sq. m.

Existing Total Built Up Area: 21516.50 sq. m.

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

FSI Area: 13210.24 sq.m.
 Non FSI Area: 6286.76 sq.m
 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

Salient features Of the Environmental management plans

- Energy efficient electrical installation for conserving electricity.
- Provision of Rainwater Harvesting to conserve

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TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL) PAREL, BOMBAY-400012. ENGINEERING DEPARTMENT

		Environmental Protection	Capital Cost (Rs. in Lakhs)	Recurring Cost Per annum
		II. Operation Phas Block)		•
		arrangement Total	50	1
,		Toilet for labour + Drinking water + First aid	15	1
		Debris/topsoil Management	35	Nil
			(Rs. in lakhs)	annum (Rs. in lakhs)
	plans with item wise and year wise break-up.	Environmental Protection Measure	Capital Cost	Recurring Cost Per
	b) Allocation made for environmental management	I. Construction Phase	,	
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference:	Existing Rs. 56/- Crores (b) = Rs. 367.59		
9.	SC, ST/Adivas Financial details:		4	
	laborers/artisans:			
	dwelling units and agricultural land and landless			
	those losing house/dwelling units only agricultural land only. Both			*
8.	Breakup of the project affected population with enumeration of	Not Applicable		
	b) Others	Project comes under In	dustrial Ar	ea
7.	Breakup of the project area a) Submergence area forest and non-forest	Not Applicable		
		 Sewage Treatment P effluent. 	ian (SIF)	
		Solid Waste Managem Treatment T		ta rousa trasta
		 Provision of Energy system 	emcient (illives for HAWC
		Tree Plantation or I development.		-
		m Di		

TATA MEMORIAL CENTRE (TATA MEMORIAL HOSPITAL) PAREL, SGWBAY-400012

Total	185.81	59.41
Monitoring		
Environment	1.0	1.60
Landscaping	76.81	52.92
Electrical Cost	108	4.89
MSW		
Harvesting		
Rainwater		
Treatment Plan		
Sewage		

Construction Phase: (For Hadron beam & RRU)

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

III. Construction Phase: (Shanghavi Block)

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

IV. Operation Phase: (Shanghavi Block)

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PAREL SOUBAY-400012
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		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	20	1
		Harvesting		/
		Greeen Belt	76.81	52.92
	As a second of	Development		
		Energy	153	6.89
		Conservation		
		Environment	1	1.6
		Monitoring		
		Total	562.81	72.91
	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. 285.74 Cr		
	f) Actual expenditure incurred on the environmental management plans so far	Rs. 6.56 Cr		
10.	Forest land requirement: a) The status of approval for diversion of forest land for non-forestry use	Not Applicable		
	b) The status of cleaning felling	Not Applicable		
	c) The status of compensatory afforestration, if any	Not Applicable		
	d) Comments on the viability and sustainability of compensatory afforestration programme in the light of actual field experience	Not Applicable	1	

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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	September 2013 (Actual)
	(Actual and/or planned)	September 2022 (Planned)
13.	Reason for the delay of the project is yet to start	Disbursement of fund from government
14.	713163	
	(a) The dates on which the project was monitored by the Regional Office on previous occasions, if any	11/09/15
	(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.)	 (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-00000000084 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

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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
M/s. Tata Memorial Hospital
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
Construction of total 41607.65 Sq. mt. area is completed out of 110712.03 Sq. mt. Built up area.

Construction phase

S.	Conditions	Compliance Status
No.		
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. 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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Tata Memoral Centre (Tata Memoral Hospital) Paral, Bombay - 400012 Scanned with CamScanner 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 & according commencement certificate to proposed work. approving authority Plan should also ensure the zoning permissibility for 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**.

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.

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

Both copies are attached as Annexure - VI.

Right now, the construction of Hematolymphoid Block, RRU Building & Hadron Building is in progress. Following sanitary & hygienic measures are being followed at site.

Safe & clean water for workers.

2. Temporary toilets connected to soak pit followed by septic tank.

Regular medical checkups.

 Regular disposal of Solid waste to approved landfilling site after segregation and sale of recyclables & inert.

 Accumulation of stagnant water will be avoided to prevent breeding of mosquitoes.

The above measures will be maintained throughout the construction

proponent shall Project 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 unless all environmental infrastructure installed and made functional including water requirement in Para 2. Prior from certification appropriate authority shall

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 is enclosed as **Annexure - VIII.**

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Tata Memorial Centre (Tata Memorial Hospital) Parel, Bombay-Goods Engineering Department

Combined Compliance Status Report

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 construction work is in progress.
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.
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.
 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 approved 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. • Total Non – Hazardous Solid waste generated at the site is 110.50 Kg/Day for existing and 788.5 Kg/Day for proposed facility which include Construction debris, Dry Waste, Wet Waste & STP Sludge (Dry Sludge) • For Biobank- Dry-Existing: 187.5 Proposed: 0.75 Wet-Existing: 187.5 Proposed: 0.5 • STP Sludge: (Dry Sludge): 0.2 Kg/Day For Biobank-0.1 Kg/Day • Biomedical Waste generation is 1000 Kg/ Month (33.33 Kg/Day) for existing & 6610.75 Kg/month from proposed facility. For Biobank-Existing: 4602.75 Proposed: N.A. • Hazardous waste: 8 Kg/Day Approx.

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Tata Memorial Centre (Tata Memorial Hospital)
Parel, Bombay - 400012
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		For Shonghyi Plock -
		For Shanghvi Block -
		Dry-Existing: 95.2 Wet-Existing: 74.8
		STP Sludge: (Dry Sludge): 25 Kg/Day
		STP Sludge: (Dry Sludge). 25 Kg/ Day R: 180 Kg/day
		Biomedical Waste generation is 180Kg/day.
		Hazardous waste: As per generation.
		Disposal of Solid Waste:
- 1		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.
		cmp of the Charles min with wet waste and convert that Into 1
		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
	Wet garbage should be	Wet garbage generated from the construction of the building will be
ix.	THE BULL BUILD	treated in Nisargruna Biogas Plant provided at the ground level in the
	treated by Organic Waste	premises. The manure thus generated will be used for gardening.
	Converter and treated waste	Photographs and details of Nisargruna biogas plant are enclosed as
	(manure) should be utilized	Annexure - X.
	in the existing premises for gardening. And, no wet	Alliferate 11
	gardening. And, no wet garbage will be disposed	
-	outside the premises. Local	
	authority should ensure this.	
x.	Arrangement shall be made	Yes, Separate drainage line will be provided to prevent mixing of
۸.	that wastewater and storm	wastewater and storm water.
	water do not get mixed.	
xi.	All the topsoil excavated	Yes, at CCE and Hematolymphoid Block topsoil used for maintaining
Λ1,	during construction activities	green belt development.
	should be stored for use in	all the tensoil and
	horticulture landscape	At other buildings where works are in progress, all the topsoil and
	development within the	construction debris will be used for maintaining green belt development
	project site.	and filling the plot respectively.
xii	Additional soil for leveling of	Soil received from excavation in foundation is utilized for the leveling.
	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.	a la la la la control ha corried out as non CDCR guidelines
xiii	Green belt development shall	Green belt development will be carried out as per CPCB guidelines.
	be carried out considering	Currently, Green belt development are in progress at Hadron, Asha
	CPCB guidelines including	Niwas Buildings & Shanghvi Block
	selection of plant species and	
	in consultation with the local	Please refer Annexure - XI for green belt developed within site.
	DFO/ Agricultural Dept.	
		07[12] 2022

Tata Memorial Centre (Tata Memorial Hospital) Parel, Bombay - 400012 Fraincening Department Scanned with CamScanner

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xiv	construction phase should be create any adverse effect on the neighboring communities and be disposed taking the	 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. topsoil out of 990 cu.m. preserved topsoil is used for landscape development at Hematolymphoid Block. 					
	necessary precaution for general safety and health aspects of people, only in approval sites with the approval of competent authority.		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
		D .	maintaining the Dry waste: seg landfill site. Wet waste: biod	ion debris e natural sle gregation a degradable ry Sludge):	will be utilized foope. Ind sale of recyclal waste to compost. mix with wet wast	oles, inert to	o approved
xv	will be tested to ascertain	Ye la	es, the soil sample boratory regularl	e monitorii ly and the r	ng is carried out thi eports are submitte	ough MoEF	recognized istry.
	that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Po	ost Monitoring Re	eports are a	ttached as Annexu	re – I.	
xvi	Constructions spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach	m	nere is no genera aterial at the site PCB norms.	ation of ar e till date &	ny bituminous mate & if generated will	erial or any be disposed	hazardous as per the
	into the ground water.				0711	212022	

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	Any hazardous waste	There is no generation of Hazardous waste at the Complex till date, if
	generated during	generated will be disposed as per MPCB norms.
	construction phase should be	the second of th
	disposed off as per applicable	Waste generation in Operational Phase:
	rules and norms with	
	necessary approvals of the	Biomedical waste generation
	Maharashtra pollution	For RRU & CCE: 1000 Kg/Month
	control Board.	 For Hardon & RRU: 2008 Kg/Day
		For Hemato Lymphoid Block: Hazardous waste generation- 8
	1 1	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	Yes, DG sets of 2 nos. × 1500 KVA is proposed for Hematolymphoid
	be used during construction	Block and DG sets of 2 Nos. × 625 and 2 Nos. × 2000 KVA are proposed
	phase should be low sulphur	for RRU and Hadron respectively which will be operated only during
	diesel type and should	power failure during operation phase & will be provided with enclosure.
	conform to environments	Diesel generating sets will be of low sulphur diesel type as per
	(Protection) Rules	environments (Protection) Rules prescribed for air and noise emission
	prescribed for air and noise	standards.
	emission standards.	Photographs of DG sets are enclosed as Annexure - XII.
	1	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
-	mi 1: -1 5	AS per norms, 990 litre day tank is provided with each DG set.
XIX	The diesel required for	AS per norms, 990 litre day talk is provided with each od set.
	operating DG sets shall be	
	stored in underground tanks	
	and if required, clearance	
	from concern authority shall be taken.	
	Vehicle hired for bringing	Right now, the construction of Hematolymphoid Block, RRU Building &
XX	construction material to the	Hadron Building is in progress.
	site should be in good	The state of the s
	condition and should have	The vehicles hired for bringing construction material such as concrete,
	pollution check certificate	sand, cement etc at site will have valid PUC. All vehicles are less than 8
	and should conform to	years old only. The vehicles used for bringing construction material will
	applicable air and noise	be operated only during non-peak hours.
	emission standards and	
	should be operated only	
	during non- peak hours.	
xxi		Yes, the Ambient Noise & Ambient Air monitoring will be regularly
	be conform to residential	carried out at the boundary wall of the premises as per environmental
	standards both during day &	protection act 1986. Please refer Annexure – I for post monitoring
	night Incremental pollution	reports.
	loads on the ambient air &	

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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. xxii Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September	Transportation of the construction material will be carried out
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).	
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	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 Biologic Medical Property Storage Building Biologic Building Biologic Medical Property Storage Building Biologic Biolo
lighting.	Storage building, Biobank, Hadron, Aasha 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
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.
txviii 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	Sewage generated from the project will be connected to CIDCO sewer network which have STP at the end, the treated water shall be supplied

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	(STP) should be certified by	by CIDCO to ACTREC for Horticulture. Copy of sanction letter from
	an independent expert and a	CIDCO for treatment of sewage from ACTREC is attached as Annexure - XV . At Hadron Building, installation of 40cmd capacity STP is completed.
	report in this regard should be submitted to the ministry	XV. At Hadron building, installation of 40cmd capacity of 1 is completed.
	before the project is	Considering on-going projects as well as proposed Construction of
	commissioned for operation.	"Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a
	Treated effluent emanating	centralized STP of 600 KLD capacity is proposed for ACTREC campus
	from STP shall be recycled/ reused to the maximum	and construction work is in progress.
	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.	
xxix	Local body should ensure	Yes, we have received Occupation Certificates for Centre for Cancer
	that no occupation certification is issued prior to	Epidemiology (CCE), Archive & Record storage, Biobank, Hadron, Aasha Niwas and Hematolymphoid Block. Copies of same are enclosed as
	operation of STP/MSW site	Annexure - VII.
	etc. with due permission of	
	мрсв.	
XXX	Permission to draw ground water shall be obtained from	To draw ground water for construction purpose, necessary permission will be obtained.
	the Competent Authority	will be obtained.
	prior to construction /	
	operation of the project.	y I I I I I I I I I I I I I I I I I I I
XXXI	Separation of grey and black water should be done by the	Yes, dual plumbing line are designed and constructed at CCE and Archive & Record Storage Buildings for separation of grey and black water.
	use of duel plumbing line for	And for Hematolymphoid Block, RRU, Hadron and Asha Niwas Building
	separation of grey and black	dual plumbing lines are designed and now the construction activites are
	water.	in progress. For Sanghvi Block, dual plumbing lines will be designed and provided.
xxxi	Fixtures for showers, toilet	
LAA	flushing, and drinking should	the use of aerators, pressure reducing valve & sensor-based control at
	be of low flow either by use of	CCE, Archive & Record Storage and Hadron Building.
	aerators or pressure reducing devices or sensor	And, at other buildings i.e. Hematolymphoid Block, RRU, and Asha Niwas
	based control.	& Proposed Shanghvi Block it is considered and will be provided during
		construction.
xxii	Use of glass may be reduced	Yes. Use of glass is restricted to minimum requirement.
	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.	
xxiv	Roof should meet	Yes. Underdeck insulation is provided at terrace slab level at CCE,
	prescriptive requirement as	Hematolymphoid Block, RRU and at AHU rooms at first floor of Hadron
	per Energy Conservation Building Code by using	Building.
	appropriate thermal	It will be provided at other buildings too as per the prescriptive
**	The same that the property there is no a survey or a second control of the second seco	07/12/1202-2

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Combined Compliance Status Report

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 provice solar operated street lighting system at entrance. At Hadron Building, following Energy conversations of solar power panel be LED lighting system considered in design and accordingly work is completed. a. Solar power panel be LED lighting system of the Energy efficient drives At Hadron Building, following Energy conversations of lighting design and accordingly work is completed. a. Solar power panel be LED lighting system of the Energy efficient drives At Hadron Building, following Energy conversations of lossing and accordingly work is completed. a. Solar power panel be LED lighting system of the Energy efficient drives At Hadron Building, following Energy conversations of lossing and accordingly work is completed. a. Solar power panel be LED lighting system of the Energy efficient drives LED lighting system the tronsition design and accordingly work is completed. a. Solar power panel be LED lighting system of the Energy efficient drives LED lighting system the toposition design and accordingly work is completed. a. Use of LED street lighting of Energy conversations design and accordingly work is completed. a. Use of LED street lighting of Energy conversations design and accordingly work is completed. b. LED street lighting of Energy conversations design and accordingly work	insulation material to fulfill	requirement or not Francis C
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. Source as source of energy. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operational phase should be of enclosed type.	requirement.	
n. Maximum saving due to Solar PV cells Yes, DG sets are operated only during power failure & are be proposed as source of backup power for elevators and common area illumination during operational phase should be of enclosed type	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	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 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
proposed as source of backup provided with enclosure. power for elevators and common area illumination during operational phase should be of enclosed type	Piecel neuron generative acta	n. Maximum saving due to Solar PV cells
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.	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 07/12/2022		07/11/12/02/2

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may be decided with in consultation with 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. xxviii 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 is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. 2 -wheeler: 4 nos. 4 -wheelers: 47 nos. 4 -wheelers: 47 nos. 5 - 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. 1 Total Parking are: 12.5 sq.m. Width of all Internal roads (m): 9.00 mts /6.00 mts /5.00 mts driveway For Asha Niwas: Total Parking are: 12.5 sq.m. No. of 4 wheelers approved: 159 The building Code, which is proposed to be mandatory for an air- conditioned spaces while it is aspirational for non -air- conditioned spaces while it is aspirational for non -air- conditioned spaces while it is aspirational for non -air- conditioned spaces by use of appropriate thermal insulation material to fulfill requirement. XI The building should have adequate distance between them to allow movement of fresh air and passage of light to the residential premises			
Maharashtra Pollution Control Board.		may be decided with in	
Control Board. xvii Noise should be controlled to ensure that it does not exceed the prescribed standards. Durring 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. 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 is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: - 2-wheelers: 4 nos. - 4-wheelers: 47 nos. Post Hematolymphoid Block: - 2-wheelers: 90 nos. - 10-tal area for car a parking: 2300 Sq.m. - Type of parking: 0PEN - 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. - 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. - 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. - 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. - 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. - 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. - 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. - Width of all Internal roads (m): 9.00 mts /6.00 mt		consultation with	
in the 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. In the 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 fully internalized and no public space should be utilized. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 1 - 2-wheeler: 4 nos. 1 - 2-wheeler: 4 nos. 1 - 2-wheeler: 8 nos. 1 - 4-wheelers: 90 nos. 1 - Total area for car parking: 2300 Sq.m. 1 - Type of parking: OPEN 1 - Area per car including driveway provided for car parking: 25.5 Sq.m. 2 - Area per car: 12.5 sq.m. 2 - Area per car: 12.5 sq.m. 3 - Area per car: 12.5 sq.m. 4 - Area per car: 12.5 sq.m. 5 - Area per car: 12.5 sq.m. 6 - Area per car: 12.5 sq.m. 7 - Area per car: 12.5 sq.m. 8 - Area per car: 12.5 sq.m. 9 - Area per car: 12.5 sq.m. 9 - Area per car: 12.5 sq.m. 10 - Area per car: 12.5 sq.m. 11 - Area per car: 12.5 sq.m. 12 - Area per car: 12.5 sq.m. 13 - Area per car: 12.5 sq.m. 14 - Area per car: 12.5 sq.m. 15 - Area per car: 12.5 sq.m. 16 - Area per car: 12.5 sq.m. 17 - Area per car: 12.5 sq.m. 18 - Area per car: 12.5 sq.m. 19 - Area per car: 12.5 sq.m. 20 - Area per car: 12.5 sq.m. 21 - Area per car: 12.5 sq.m. 22 - Area per car: 12.5 sq.m. 23 - Area per car: 12.5 sq.m. 24 - Area per car: 12.5 sq.m. 25 - Area per car: 12.5 sq.m.		Maharashtra Pollution	
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. 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 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. Post more read to a woid traffic congestion. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking is fully internalized to avoid traffic congestion. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos. Parking details for Hadron are as follows: 2 -wheeler: 4 nos		Control Board.	
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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. 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 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. 9 - 2-wheeler: 4 nos. 9 - 2-wheeler: 47 nos. 9 - 2-wheeler: 90 nos. 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		ensure that it does not	
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Tata Memorial Centre (Tata Memorial Hospital) Parel, Bombay - 400012 Engineering Department Scanned with CamScanner

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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. Under the provision of	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. We have received Environmental Clearance from ministry for –
	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 ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019.
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.
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 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 environment protection	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 .
	measures shall not be	07/12/2022

Tata Memorial Centre (Tata Memorial Hospital) Parel, Bombay - 400012 Ensincering Department Scanned with CamScanner

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 clerance 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. xlixi Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year. 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. 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			
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Tata Memorial Centre CTata Memorial Hospital) Parel, Bombay - 400012 Engineering Department Scanned with CamScanner

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.

lii The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal

Office of CPCB and the SPCB.

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

liii The environmental statement for each financial year ending 31st March in form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the (Protection) Environment 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 eYes, Environment statement will be submitted to MPCB according to the condition in consent.

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,

mail.

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.
- authority should ensure this with respect to Rules, 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

Tata Memorial Centre (Tata Memorial Hospital) Parel, Bornbay - Good 2 Engineering Department Scanned with CamScanner

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. ii E- waste shall be disposed through Authorized vendor	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-000002065 dated 7th November 2019. Not Applicable, No E- waste will be generated from the proposed project. If generated any will be disposed off as per E – waste
as per E – waste (management and handling) Rules, 2011 iii This environmental Clearance is issued subject to utilization of excess treated	(management and handling) Rules, 2011. Yes, Total water requirement for existing & proposed expansion is enclosed as Annexure - XIX.
water. 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	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

Tata Memerial Centre (Teta Memerial Hospital) Parel, Bombay - 900012 Engineering Department Scanned with CamScanner 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 from appropriate authority shall be obtained.

addition, 40 cmd 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.

wiii 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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Tata Memorial Centre (Tata Memorial Hospital) Parel, Bombay - 400012 Engineering Department