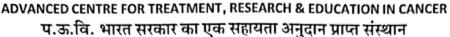
टाटा स्मारक केन्द्र

TATA MEMORIAL CENTRE

कैंसर उपचार, अनुसंधान एवं शिक्षा का प्रगत केंद्र



A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVT. OF INDIA

No. 54509

Ref No. TMC/ACTREC/SKB/Compliance report/3717

Date: 08th May 2024

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-000000084 Dated 4th May 2017. FATOMIC ENTRY
- Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" Vide No. SEIAA-EC-0000002065 dated 7th November 2019.
- EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus.

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, TMC Child Care Centre and Biobank at ACTREC, Plot No. 1 & 2, sector 22 at Khargar, Navi Mumbai.

Construction activities started at site from 15th September 2013.

प्लॉट क्रं. 1 एवं 2, सेक्टर 22, खारघर, नवी मुंबई 410 210, भारत.

दूरभाष : + 91-22-2740 5000 + 91-22-6873 5000

फ़ैक्स : + 91-22-2740 5085

जल्द इलाज होने पर कैंसर ठीक हो सकता है! Cancer is curable, if detected early

ईमेल/E-mail: mail@actrec.gov.in वेबसाइट/Website: www.actrec.gov.in Plot no. 1 & 2, Sector 22, Kharghar, Navi Mumbal – 410 210, INDIA. Phone +91-22-2740 5000

+91-22-6873 5000 Fax: +91-22-2740 5085 In compliance to the conditions stipulated in Environmental Clearance we are submitting the six-monthly Compliance Status Report for the period of July 2023 – December 2023 along with the desired information and copies of documents are as under:

- 1. Data sheet
- 2. EC Compliance report.
- 3. Post Monitoring Report (July 2023 December 2023)

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

We hope the above is to your satisfaction.

Thanking You,

Yours faithfully

Tours laitinuity

Whangle 12014.

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

Encl: a/a

CC to:

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

DATA SHEET

1.	Project type:	II	
1.		Hospital Project (Advance Treatment, Research &	
	River-valley/Mining/Industry/	Education in Cancer – funded by Government of	
-	Thermal / Nuclear/Other (Specify)	India)	
2.	Name of the Project	Existing and Proposed project Radiological Research Unit and Administrative block (RRU) and Centre for cancer Epidemiology (CCE, Archive and Record Storage) at ACTREC, Proposed expansion of TATA Memorial Hospital "Hemato Lymphoid Block", proposed construction of Hadron Beam (Proton Therapy) Facility and Radiological Research Unit & Administration Block(RRU), Construction of Dormitory Building(Asha Niwas), TMC Child Care Centre and Construction of Bio Bank storage Building and "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre"	
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-0000002065 dated 7th November 2019	
137	Sadan K. Shan	• EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance	

July 2023 - December 2023

Satish K. Bhangala, Engineer D' (Civil) **Engineering Services** TMG-ACTREC, Kharghar

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			ata Mem	lopment of Existing norial Centre ACTREC nre Centre)	
4.	Location: a) District (s) b) State (s) c) Location d) Latitude/Longitude	Navi Mumbai Maharashtra Plot No. 1 & 2, se 19º04'03.76" N 73º0.3'49.88" E	ector 22 at	Kharghar, Navi Mumbai.	
5.	Address for correspondence a) Address of the Concerned Project Chief Engineer (With Pin Code and telephone/telex/fax numbers)	Name: Satish Bhangale; Engineer 'D' Civil Address: Engineering Services, 2nd floor, Khanolkar Sodhika, ACTREC - Tata Memorial Centre Plot No. 1 & 2, sector 22 at Kharghar, Navi Mumbai 410210 Tel No: 022-2740 5013/5067 Mobile No: 9869502468 Email id: sbhangale@actrec.gov.in			
6.	Salient features Of the project	Total Plot Area: 2 (As per EC Dates same on 11th Dec	2, 40, 007. d: 8 th Apri	495 sq. m. <u> 2013 & Amendment in</u>	
		Radiological Research Unit and Administrative Block (RRU)	buildings 01	Existing scope B + Gr + 03 (Design for B + G +7) = 7500 Sq. m.	
		Centre for Cancer Epidemiology (CCE) Archive &	01 .	Existing scope Gr + 03 (Design for G + 7) = 6000 Sq. m.	(
		Record Storage		(Design for G + 4) = 4000 sq. m.	
		Existing FSI area: 17, 500 sq. m. Existing: Non FSI area: 5250 sq. m. Existing Total Built Up Area: 22,750 sq. m.			
		[As per EC granted for expansion on dated: 12th January 2016] Total Buildings - 2 Hematolymphoid 1 G + 7 When the state of the state			

Satish K. Bhangale Engineer 'D' (Civil) Engineering Services TMC-ACTREC, Kharghar 2

religned to the aging

Utility Block	1	Ground floor
Medical Gas Manifold	1	Ground floor
Electrical Substation	1	Ground floor
Entrance Structure	1	Ground floor

Proposed FSI area: 16731.26 sq. m Proposed Non FSI: 2032.43 Sq. m.

Proposed Total Built Up Area: 18763.69 sq. m.

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

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

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

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

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

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

1. FSI Area: 13210.24 sq.m. 2. Non FSI Area: 6286.76 sq.m 3. Total BUA: 19497.00 sq.m.

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

FSI area: 25007.10 Sqm

Satish K. Bhangale Engineer 'D' (Civil) Engineering Services TMC-ACTREC, Kharghar³

		Non FSI area: 3057.78	Sam		
		Total BUA: 28064.88 Sc			
	•	,	1		
	T	As per EC dated: 22rd t	Zahm.a 7	000 C D	
		As per EC dated: 23rd F	ebruary Z	023 for Propose	
		Development of Existing	ng layout	<u>of Tata Memoria</u>	
		Centre ACTREC campus	<u>S.</u>		
	*				
		1. FSI Area: 1,21,766.91			
		2. Non FSI Area: 39,318	sq.m		
		3. Total BUA: 1,61,798.	46 sq.m.		
			-		
	Salient features Of the	• Energy efficient e	electrical	installation fo	
	Environmental management plans	conserving electricity		mstanation 10	
	· · · · · · · · · · · · · · · · · · ·				
		Provision of Rainwa	ter Harves	sting to conserv	
		natural water.		*	
		• Tree Plantation or I	Landscapin	ig for green be	
		development.			
	, and the second	 Provision of Energy 	efficient	drives for HVA	
		system			
		Solid Waste Managem	nent		
				to reuse treate	
		 Sewage Treatment Plan (STP) to reuse treated effluent. 			
7.	Breakup of the project area	- CATACHE	-		
	a) Submergence area forest and	and Not Applicable			
	non-forest	Not Applicable			
	b) Others	Project company of the state of			
8.		Project comes under Industrial Area			
о.	Breakup of the project affected	Not Applicable			
	population with enumeration of				
	those losing house/dwelling units				
	only agricultural land only. Both		v."		
	dwelling units and agricultural				
	land and landless			*	
	laborers/artisans:			•	
-	SC, ST/Adivas				
9.	Financial details:				
	a) Project cost as originally	Existing Rs. 56/- Cro	res (a)+	Proposed 311 5	
	planned and subsequent	, , , , , , , , , , , , , , , , , , , ,			
	revised estimates and the year	10,007,00	orore (a r	o,	
	of price reference:				
	P-100 I Old Cheel			,	
	b) Allocation made for				
		I. Construction Phas	e: (For H	lematolymphoi	
	environmental management	Block)			
	plans with item wise and year	Environmental	Capital	Recurring	
	wise break-up.	Protection Measure	Cost	Cost Per	
	, s		(Rs. in	annum	
- 1			lakhs)	(Rs. in lakhs)	

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arrangement Total	50	1
First aid		
Drinking water +		
Toilet for labour +	15	1
Management		
Debris/topsoil	35	Nil

II. Operation Phase: (For Hematolymphoid Block)

Environmental Protection Measure	Capital Cost (Rs. in Lakhs)	Recurring Cost Per annum (Rs. in Lakhs)
Sewage		
Treatment Plan		
Rainwater		
Harvesting		
MSW		
Electrical Cost	108	4.89
Landscaping	76.81	52.92
Environment	1.0	1.60
Monitoring		
Total	185.81	59.41

Construction Phase: (For Hadron beam & RRU)

Environmental Protection	Total Cost
Measure	(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 (Rs. in Lakhs)	Cost Per annum (Rs. in Lakhs)
Solid Waste Management	10	02
Biomedical Waste Management	0	05
Rainwater Harvesting	24.76	1.2
Green Belt	1	0.50

Satish K. Bhangale Engineer 'D' (Civil) Engineering Services

Engineering Services
TMC-ACTREC, Kharghar

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(1)

Energy Saving features	40	2.50
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)

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

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. 471.42 Cr

f) Actual expenditure incurred on the environmental management plans so far

Rs. 9.56 Cr

10	F	
10.	Forest land requirement:	
	a) The status of approval for	Not Applicable
	diversion of forest land for non-	
-	forestry use	
	b) The status of cleaning felling	Not Applicable
	c) The status of compensatory	Not Applicable
	afforestration, if any	
	d) Comments on the statement	
	d) Comments on the viability and	Not Applicable
	sustainability of compensatory	
	afforestration programme in the	
11.	light of actual field experience	,
11.	The status of clear felling in non- forest areas (such as submergence	Net Applicable
		Not Applicable
	area of reservoir, approach roads), if any with quantitative	
	if any with quantitative information	
12.	Status of construction	
12.	a) Date of commencement	Santambar 2012 (Actual)
	(Actual and/or planned)	September 2013 (Actual)
	b) Date of completion	September 2024 (Planned)
	(Actual and/or planned)	September 2024 (Flaimed)
13.	Reason for the delay of the project	
	is yet to start	Disbursement of fund from government
14.	Dates of site visits	
	(a) The dates on which the project	
	was monitored by the Regional	11/09/15
	Office on previous occasions, if any	
	(b) Date of site visit for this	Places refer Post M. V. J. B.
	monitoring report	Please refer Post Monitoring Report.
15.	Details of correspondence with	EC granted for -
	project authorities for obtaining	• (Radiological Research Unit and Administrative
	action plans / information on	block - RRU) and Centre for cancer
	status of compliance to safeguards	Epidemiology (CCE, Archive and Record
	other than the routine letters for	Storage) vide letter No: SEAC 2013/CR-101/TC-
	logistic support for site visits.	1, Dated: 8th April 2013
	(The first monitoring report may	 Amendment in same on 11th December 2015
	contain the details of all the letters	• Expansion of TATA Memorial Hospital "Hemato
	issued so far, but the later reports	Lymphoid Block" vide No. SEAC 2213/CR
	may cover only the letters issued	325/TC II Dated: 12th January 2016.
	subsequently.)	• 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:
		2-4-14 264.00 20:

12.01.2018

- Amended Environmental Clearance for Asha vide No. CIDCO/ACP(BP/DP/NT)/EC/2018/642 Date: 12.01.2018
- Environment Clearance for the Expansion & Amendment vide No. SEIAA-EC-0000000084 Dated 4th May 2017
- · Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019
- EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre)

Ref	EC No. SEAC 2013/CR-101/TC-1; Dated: 8th April 2013 & amendment in same on 11th
-101	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
1	EC No. SEIAA-EC-0000002065 dated 7th November 2019
	EC No. EC23B039MH160026 dated 23rd February 2023
То	M/s. ACTREC- Tata Memorial Centre
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. Expansion of TATA Memorial Hospital "Hemato Lymphoid Block" at plot 1 & 2, sector 22, Kharghar, Navi Mumbai 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 Proposed project of Addition of One Dormitory Building 'Asha Niwas' in the existing ACTREC campus of Tata Memorial Hospital at Kharghar by M/s. Tata
	Memorial Centre 5. Expansion & Amendment in EC by addition of one structure "Bio Bank" in existing campus of Tata Memorial Hospital by M/s. Tata Memorial Centre
	6. Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in ACTREC
*	7. Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (TMC Child Care Centre)
Status	Construction of total 1,12,119.54 Sq. mt. area is completed out of 131360.88 Sq. mt. Built up area.

Construction phase

July 2023 to December 2023

S.	Conditions	Compliance Status
No.	· Comment of the comm	
i.	This environmental Clearance is issued	Yes, we have received Environmental
	subject to land use verification. Local	Clearance for –
	authority / planning authority should	 Radiological Research Unit and
	ensure this with respect to rules,	Administrative Block - RRU and Centre
	Regulations, Notifications, Government	for Cancer Epidemiology (CCE, Archive
	Resolutions, Circulars, etc. issued if any.	and Record Storage) vide letter No:
	This environmental Clearance issued	SEAC 2013 / CR 101/TC-1, Dated: 8th
	with respect to the environmental	April 2013 &
	consideration, and it does not mean that	Amendment in same on 11th December
	State Level Impact Assessment Authority	2015 & for Expansion of TATA Memorial
	(SEIAA) approved the proposed land	Hospital "Hemato Lymphoid Block" vide
	use.	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)/
	LA L'A	EC/2018/643; Date: 12th January 2018

8/2 hay

Amended EC for proposed project of addition of one Dormitory Building 'Asha Niwas' vide CIDCO/ACP(BP/DP/NT)/EC/2018/642; Date: 12th January 2018 & SEIAA-EC-0000000084 Dated 4th May 2017 for Bio Bank and Environment Clearance for Addition of one hospital "Shantilal Shanghvi **Pediatric** Hematolymphoid Cancer Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 dated 7th November 2019. EC No. EC23B039MH160026 Dated 23rd 2023 for Environment February Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre) Copies of Environmental Clearance & Amendment in same are attached as Annexure - II. The height, Construction built up area of The height, Construction built up area of proposed construction will be in proposed construction shall be in accordance with the existing FSI/FAR accordance with the existing FSI/FAR norms of the urban local body. Plan norms of the urban local body & it approved from CIDCO (Plan Approving should ensure the same along with Authority). Commencement Certificate for survey number before approving layout CCE Building & RRU Building, Archive & plan & before according commencement Record Storage Building, Hemato Lymphoid certificate to proposed work. Plan Block, Hadron & RRU, Asha Niwas, Biobank approving authority should also ensure and Sanghvi Block is attached as Annexure the zoning permissibility for the proposed project as per the approved - III. development plan of the area. 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. We have obtained Consent to Establish "Consent for Establishment" Shall be Research Unit (Radiological obtain from Maharashtra Pollution Administrative block - RRU) and Centre for Control Board under Air and Water Act cancer Epidemiology (CCE, Archive and and a copy shall be Submitted to the Record Storage) & Expansion of TATA Environmental Department before start Memorial hospital "Hemato Lymphoid any construction work at the site. Block" vide No. Format 1.0/ BO/ CAC-Cell/ UAN No. 0000026705/ CAC - 1801000090 Satis N. Birangale Dated: 03/01/2018. Engineer 'D' (Civil) Engineering Services

OF SERVICE CHAIR

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TMC-ACTREC, Kharghar

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.

iv. 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 Sanghavi Block is in progress. Following sanitary & hygienic measures are being followed at site.

- 1. Safe & clean water for workers.
- Temporary toilets connected to soak pit followed by septic tank.
- 3. 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 phase.

Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.

Sewage generated from the Centre for cancer Epidemiology (CCE) and Archive and Record Storage are connected to CIDCO sewer network which have STP at the end. Occupation Certificates for Centre for Cancer Epidemiology (CCE), Archive & Record storage, Biobank, RRU, Hematolymphoid and Hadron Project are received & are attached as Annexure - VII.

Considering existing & proposed "Shantilal Construction of Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity is for ACTREC campus and construction work is commissioned. completed The photograph of STP is enclosed as Annexure - VIII,

We will take care for proper disposal of Solid waste to approved landfilling site after segregation and sale of recyclables & inert and green belt development. Prior certificates will be obtained from respective

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

vi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid waste generated during the construction workers at the site. Provision should be ensured. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets, the safe disposal of wastewater and solid waste generated during the construction workers at the site. Provision should be ensured. Adequate a 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 during sent to approve landfilling site after segregation and sale of recyclables & inerts. Other construction waste generated during construction which includes debris, concrete, steel and other metals, bricks, pallets, packaging and paper products, railings, door and window casings, fixtures, tiles, furnishings etc. Accumulation of stagnant water will be avoided to prevent breeding of mosquitoes. Drinking Water Analysis is Carried Out regularly. Please refer Post monitoring report. Construction Waste Management: Material wastes like bricks, cement etc. will be used as fill material and concrete would be recycled and reused at the site is 110.50 Kg/Day for existing and 788.5 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 Biobanak. Dry-Rxisting: 187.5 Proposed: 0.75 Wet-Existing: 187.5 Proposed: 0.75 Wet-E			authorities
 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. The solid waste generated should be properly collected and segregated. Dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. Total Non – Hazardous Solid waste generated at the site is 110.50 Kg/Day for existing and 788.5 Kg/Day for proposed facility which include Construction debris, Dry Waste, Wet Waste & STP Sludge (Dry Sludge) For Biobank-Dry-Existing: 187.5 Proposed: 0.75 Wet-Existing: 187.5 Proposed: 0.5 STP Sludge: (Dry Sludge): 0.2 Kg/Day 	of construction with all necess facilities such as toilets, mobile S medical health can recommend to the safe and solid waste struction was toilets. The safe and solid waste struction was to the safe and solid waste struction.	labour within the site ary infrastructure and fuel for cooking, mobile TP, safe drinking water, are, crèche and First Aid ing water and sanitary d be provided for workers at the site. d be made for mobile disposal of wastewater e generated during the	labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets with drainage connection to existing sewer network, safe drinking water, medical health care, first aid room etc. Please refer enclosed Annexure - IX for facilities for labours provided at site. • Yes, safe & clean drinking water is provided through CIDCO to workers. Again, RO plants are installed at site. • Sewage generated from the project is connected to CIDCO sewer network which have STP at the end, the treated water being supplied by CIDCO to ACTREC for Horticulture. • The solid waste generated from labour camp being sent to approve landfilling site after segregation and sale of recyclables & inerts. • Other construction waste generated during construction which includes debris, concrete, steel and other metals, bricks, pallets, packaging and paper products, railings, door and window casings, fixtures, tiles, furnishings etc. • Accumulation of stagnant water will be avoided to prevent breeding of
materials will be made on site. The solid waste generated should be properly collected and segregated. Dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. Total Non – Hazardous Solid waste generated at the site is 110.50 Kg/Day for existing and 788.5 Kg/Day for proposed facility which include Construction debris, Dry Waste, Wet Waste & STP Sludge (Dry Sludge) For Biobank- Dry-Existing: 187.5 Proposed: 0.75 Wet-Existing: 187.5 Proposed: 0.5 STP Sludge: (Dry Sludge): 0.2 Kg/Day			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
	properly collecte inert solid waste to the approved	d and segregated. Dry / should be disposed off I sites for land filling	 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

		Biomedical Waste generation is 1000 Kg/ Month (33.33 Kg/Day) for existing 6610.75 Kg/Month (33.33 Kg/Day)
		facility.
		For Biobank-Existing: 4602.75 Proposed: N.A.
		Hazardous waste: 8 Kg/Day Approx.
		For Shanghvi Block -
		Dry-Existing: 95.2
		Wet-Existing: 74.8 • STP Sludge: (Dry Sludge): 25 Kg/Day
		Biomedical Waste generation is
	1,146	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.
	and the second of the second o	 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 compact.
		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
K.	Wet garbage should be treated by Organic Waste Converter and treated	Wet garbage generated from the construction of the building will be treated
	waste (manure) should be utilized in the	in Nisargruna Biogas Plant provided at the
	existing premises for gardening. And, no wet garbage will be disposed outside the	ground level in the premises. The manure thus generated will be used for gardening.
	premises. Local authority should ensure	Photographs and details of Nisargruna
	this.	biogas plant are enclosed as Annexure - X.
	Arrangement shall be made that wastewater and storm water do not get	Yes, Separate drainage line is provided to prevent mixing of wastewater and storm
	mixed.	water.
i.	All the topsoil excavated during construction activities should be stored	Yes, at CCE, RRU, Hematolymphoid & Sanghavi Block topsoil used for maintaining
	for use in horticulture landscape	green belt development. (10/hangle
a e	development within the project site.	Satish K. Bhanga
ÀO.) 'G' technique' () () () () () () ()	Engineer 'D' (Civil)
ly 2	023 to December 2023	Engineering Service
5.0		TMC-ACTREC, Kharç

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,		At other buil progress, all t	dings whe he topsoil	re works are in and construction
		debris will be	used for n	naintaining green
		belt developn	nent and	filling the plot
		respectively.		
xii.	Additional soil for leveling of the	Soil received fr	om excavat	tion in foundation
	proposed site shall be generated within	is utilized for the	he leveling.	
	the sites (to the extent possible) so that			
	natural drainage system of the area is			
	protected and improved.			
xiii.	Green belt development shall be carried			vill be carried out
	out considering CPCB guidelines	as per CPCB	guidelines.	Currently, Green
	including selection of plant species and			e at Hadron and
	in consultation with the local DFO/	Asha Niwas Bu	ilding.	
,	Agricultural Dept.			,
				XI for green belt
		developed with		
xiv.	Disposal of muck during construction			ous Solid waste
	phase should be create any adverse	generated	at the	
	effect on the neighboring communities			facility which
	and be disposed taking the necessary			ebris, Dry Waste,
	precaution for general safety and health			ge (Dry Sludge)
	aspects of people, only in approval sites	• 610 cu.m.	top soil o	ut of 990 cu.m.
	with the approval of competent	preserved t	opsoil is us	sed for landscape
	authority.	developmer	it at Hemat	olymphoid Block.
	· · · · · · · · · · · · · · · · · · ·			Proposed
				Hematolymphoi
	The second of th	Waste	Existing	Block
	and the second second second second	Generation		and
				Hadron & RRU)
-	and the special desired and the	NT.	FF 25	& Asha Niwas
		Non-	55.25	600.74 kg/day
	and the second second second	Biodegradable Bio-	kg/day	, , ,
			55.25	477 56 1 /
		degradable	· kg/day	477.56 kg/day
		waste	0.1	
		STP Sludge	0.1	0.1 kg/day
			kg/day	5. 7
		D:1-6C-1:	1 141	
		Disposal of Solid		
				is will be utilized
	•			maintaining the
		natural slop		
-		 Dry waste: 	segregati	on and sale of
			inert to a	pproved landfill
		site.		
			biodegra	dable waste to
		compost.		
		 STP Sludge 	(Dry Sludg	e): mix with wet
		waste and	convert th	at into compost,
		used as man	ure.	
xv. S	oil & Ground water samples will be	Yes, the soil sai	mple moni	toring is carried
	ested to ascertain that there is no threat	out through M	oEF recogn	nized laboratory
- C 12	FIGURE MINISTER CO.		Sati	sh K. Bhanga
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	· · · · · · · · · · · · · · · · · · ·	
	to ground water quality by leaching of heavy metals and other toxic	regularly and the reports are submitted to the ministry.
	contaminants.	Post Monitoring Reports are attached as Annexure - I.
	Constructions spoils, including	There is no generation of any bituminous
xvi.	donoti dotto	material or any hazardous material at the
-	bituminous material and other	
	hazardous materials must not be	site till date & if generated will be disposed
	allowed to contaminate watercourses	as per the MPCB norms.
	and the dumpsites for such material	
	must be secured so that they should not	
	leach into the ground water.	,
	Any hazardous waste generated during	There is no generation of Hazardous waste
xvii.	Any nazaruous waste generated during	at the Complex till date, if generated will be
	construction phase should be disposed	disposed as per MPCB norms.
	off as per applicable rules and norms	disposed as per Mr CD norms.
	with necessary approvals of the	and I O and the all Phages
,	Maharashtra pollution control Board.	Waste generation in Operational Phase:
		Biomedical waste generation
		 For RRU & CCE: 1000 Kg/Month
		For Hardon & RRU: 2008 Kg/Day
		• For Hemato Lymphoid Block:
		Hazardous waste generation- 8
		Hazardous waste generation o
		Kg/Day approx. + Biomedical Waste
		generation- 1000 Kg/Month
		 For Asha Niwas: Existing: Existing-
		4602.75 Proposed- NA
		 For Bio Bank: Existing- 4602.75
	and the payment are an important district	Proposed- NA
	the second of the second second	• For Shanghavi Block: Existing-
	and the second s	2194.76 kg/day + Proposed- 180
		kg/day
		Biomedical waste generated from proposed
		facility (Hadron Beam (Proton therapy) &
		That of the second seco
		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
	127. * · · · · · · · · · · · · · · · · · ·	Treatment and Disposal Facility
		(CBMWTSDF) authorized by MPCB.
xviii.	The diesel generator sets to be used	Yes, DG sets of 2 nos. × 1500 KVA is
XVIII.		proposed for Hematolymphoid Block and
	during construction phase should be low	DG sets of 2 Nos. × 625 and 2 Nos. × 2000
	sulphur diesel type and should conform	
	to environments (Protection) Rules	KVA are proposed for RRU and Hadron
	prescribed for air and noise emission	respectively which will be operated only
	standards.	during power failure during operation
		phase & will be provided with enclosure.
		Diesel generating sets will be of low
		sulphur diesel type as per environments
		(Protection) Rules prescribed for air and
,		noise emission standards.
1 1		Holse emission standards.
1210	registary to with a first transfer of the	Satish K Bhannala

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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	Right now, the construction of Sanghavi Block is in progress. The vehicles hired for bringing construction
27th August, 2003. (The above condition	denizing in ready mix concrete.
Power Stations).	
g uccion,	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

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xxiv.	The approval of component authority	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. Yes, we have received approval for
	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.	Construction of Centre for Cancer Epidemiology (CCE) from RCC Consultant for structural safety of the building due to any possible earthquake, adequacy of fire-fighting equipment's etc. as per National Building Code including protection measures form lighting etc.
		Construction of Centre for Cancer Epidemiology (CCE), Archive & Record Storage building, Biobank, Hadron, Asha Niwas & Hematolymphoid Block are completed. Structural stability certificates are enclosed as Annexure - XIII. The harvested rainwater will be used for
xxv.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	secondary purposes such as flushing and gardening.
		Detailed drawing of storm water drainage pattern and details of rainwater harvesting system at site are enclosed as Annexure - XIV.
xxvi.	Water demand during construction should be reduced by use of pre - mixed concrete, curing agents and other best practices referred.	Following best practices are being followed at site to reduce water demand. 1) Pre-mixed concrete i.e. RMC concrete is being used at site. 2) Curing is being done at site by sprinkling water over hessian cloth.
xxvii.	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	
xviii.	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100 % grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.	At ACTREC campus, installation of 600 KLD capacity STP is completed and the treated water is supplied for Horticulture purpose. Considering on-going project of Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity for ACTREC campus is completed certified by an independent expert copy enclosed as Annexure – VIII-A. At ACTREC campus, installation of 1 KLD capacity ETP is completed and the treated water is supplied for Horticulture purpose.
1 1		Enclosed as Annexure - VIII-B.

		,
*		
xxix.	Local body should ensure that no	Yes. we have received Occupation
AAIA.	occupation certification is issued prior	Certificates for Centre for Cancer
	to operation of STP/MSW site etc. with	Epidemiology (CCE), Archive & Record
	due permission of MPCB.	storage, Biobank, Hadron, Aasha Niwas,
	due permission of Mr db.	RRU and Hematolymphoid Block. Copies of
		same are enclosed as Annexure – VII.
xxx.	Permission to draw ground water shall	To draw ground water for construction
λλ.	be obtained from the Competent	purpose, necessary permission will be
	Authority prior to construction /	obtained.
	operation of the project.	,
xxxi.	Separation of grey and black water	Yes, dual plumbing line are designed and
	should be done by the use of duel	constructed at CCE, Archive, Record Storage
	plumbing line for separation of grey and	Building, Hematolymphoid Block, RRU,
	black water.	Hadron and Asha Niwas Building for
		separation of grey and black water.
		For Sanghvi Block, dual plumbing lines will
	(, , , , , , , , , , , , , , , , , , ,	be designed and provided.
xxii.	Fixtures for showers, toilet flushing, and	Yes, Fixtures of showers, toilets, flushing
	drinking should be of low flow either by	and drinking are of low flow by the use of
	use of aerators or pressure reducing	aerators, pressure reducing valve & sensor-
	devices or sensor based control.	based control at CCE, Archive & Record
	and the second of the second o	Storage and Hadron Building.
	and the second of the second o	
		And, at other buildings i.e.
	at a drawn by left to be get in the control of	Hematolymphoid Block, RRU, and Asha
		Niwas & Proposed Shanghvi Block it is
		considered and will be provided during
	1, married a facility and the second	construction.
xxiii.	Use of glass may be reduced up to 40 %	Yes. Use of glass is restricted to minimum
	to reduce the electricity consumption	requirement.
	and load on air conditioning. If	
	necessary, use high quality double glass	
	with special reflective coating in	
	windows. Roof should meet prescriptive	Von Undoudools !!! !! ! ! !
xxiv.		Yes. Underdeck insulation is provided at
	requirement as per Energy Conservation Building Code by using appropriate	terrace slab level at CCE, Hematolymphoid
		Block, RRU and at AHU rooms at first floor
	thormal inculation material to 6-1611	
	thermal insulation material to fulfill	of Hadron Building.
	thermal insulation material to fulfill requirement.	· · · · · · · · · · · · · · · · · · ·
		It will be provided at other buildings too as
		It will be provided at other buildings too as per the prescriptive requirement as per
VVII	requirement.	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code.
xxv.	requirement. Energy conservation measures like	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. Yes, the condition is noted & is complied at
xxv.	Energy conservation measures like installation of CFLs / TFLs for the	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. Yes, the condition is noted & is complied at CCE Building by providing solar operated
xxv.	Energy conservation measures like installation of CFLs / TFLs for the lighting the areas outside the areas	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. Yes, the condition is noted & is complied at
xxv.	Energy conservation measures like installation of CFLs / TFLs for the lighting the areas outside the areas outside the building should be integral	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. Yes, the condition is noted & is complied at CCE Building by providing solar operated street lighting system at entrance.
xxv.	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	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. Yes, the condition is noted & is complied at CCE Building by providing solar operated street lighting system at entrance. At Hadron Building, following Energy
xxv.	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.	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. 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
	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	It will be provided at other buildings too as per the prescriptive requirement as per Energy Conservation Building code. Yes, the condition is noted & is complied at CCE Building by providing solar operated

recycling 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 nonconventional energy source as source of energy.

- LED lighting system
- c. LED street lighting
- d. Energy efficient drives

At Hematolymphoid Block & RRU, following Energy conversation measures considered in design and accordingly work is completed.

- a. LED lighting system
- b. LED street lighting
- c. Energy efficient drives

Energy Conservation Measures at Shanghvi Block

- a. Use of LED for Lighting
- b. Use of LED for Stair-case
- c. Use of BEE 5-star certified appliance for normal power
- d. Use of energy star rated Computers / Equipments for Computer Power
- e. Use of BEE Certified Motors for AHU Load
- f. Use of High Cop Chillers with VFD for HVAC chillers
- 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
- Use of CO sensors and VFD Fans for Ventilation & exhaust system
- m. Maximum saving due to Solar Water Heating system
- Maximum saving due to Solar PV Yes, DG sets are operated only during

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

enclosure.

power failure & are being provided with

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,		
	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	- 2 * , , , · * ,
1	with in consultation with Maharashtra	* , * , * , * , * , * , * , * , * , * ,
	Pollution Control Board.	
xxvii.	Noise should be controlled to ensure	Yes. Regular Noise Monitoring is carried out
	that it does not exceed the prescribed	by MoEF recognized laboratory.
	standards. During night time the noise	
	levels measured at the boundary of the	Post monitoring reports are attached as
	building shall be restricted to the	Annexure - I.
	permissible levels to comply with the	
	prevalent regulations.	
xviii.	Traffic congestion near the entry and	Parking is fully internalized to avoid traffic
	exit points from the roads adjoining the	congestion.
	proposed project site must be avoided.	Parking details for Hadron are as follows:
	Parking should be fully internalized and	2-wheeler: 4 nos.
	no public space should be utilized.	4-wheelers: 47 nos.
	The second secon	Public transport: 02 vehicles for approx.
-		100 staff.
		Width of all Internal roads: main road =
	and the state of the state of	11.00 m (both lane) + footpath on both
		sides, secondary roads= 6.0 m (lane).
	to broadly below the contract of the contract	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.
	The property of the second sec	Width of all Internal roads (m): 9.00
	* PER DESIGNATION OF THE PROPERTY OF THE PROPE	mts /6.00 mts /5.00 mts driveway
	· General State Country (Control of the Country of	
		For Asha Niwas:
		Total Parking area: 437 sq.m.
		Area per car: 12.5 sq.m.
		No. of 4 wheelers approved: 159
xxix.	Opaque wall should meet prescriptive	The walls will meet all prescriptive
	requirement as per Energy Conservation	requirements as per Energy Conservation
	Building Code, which is proposed to be	Building Code.
	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.	
xl.	The building should have adequate	Yes, buildings are constructed in with
	distance between them to allow	adequate distance between them to allow
	movement of fresh air and passage of	movement of fresh air and passage of light
	natural light, air, and ventilation	to the residential premises
xli.	Regular supervision of the above and	Yes, above condition is complied with.
A.I.	other measures for monitoring should	Regular monitoring of various
1	be in place all through the construction	environmental parameters is carried out.
- 5	or in place an infough the construction	140
		W Westigh K. Bhang

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	nhasa so as to avail disturb	Places
	phase, so as to avoid disturbance to the surroundings.	
xli		attached with compliance as Annexure – I.
	(Protection) Act, 1986, legal action shall	We have received Environmental Clearance from ministry for –
1.	be initiated against the project	
	proponent if it was found that	
	construction of the project has been	Nescalcii Oill ann
١.		
	started without obtaining environmental clearance.	Spidelinology (CCE, Alchive
1	chivit offinental clearance.	and Record Storage) vide letter No:
4.		SEAC 2013 / CR 101/TC-1, Dated: 8th
1		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
١.	37-77	January 2016 and
		Proposed construction of Hadron Beam
		(Proton Therapy) Facility and
1		Radiological Research Unit &
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Administration Block (RRU) vide
	The state of the s	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
	- North Control of the	Clearance for Addition of one hospital
		"Shantilal Shanghvi Pediatric
	1.00	Hematolymphoid Cancer Centre" in
-		existing ACTREC vide no. SEIAA-EC-
		0000002065 dated 7th November 2019.
		EC No. EC23B039MH160026 Dated 23rd
		February 2023 for Environment
		Clearance for Proposed Development of
		Existing layout of Tata Memorial Centre
		ACTREC campus. (EC for TMC Child Care Centre)
xliii.	Six monthly monitoring reports should	
AIIII.	be submitted to the Department and	Yes, we are submitting Six monthly
	MPCB.	environmental clearance compliance
xliv.	A complete set of all the documents	reports to Department and MPCB regularly.
, AIIV.		Yes, a complete set of all the documents
	submitted to Department should be	submitted to MoEF shall be forwarded to
1	forwarded to the MPCB	MPCB.
xlv.	In the case of any change(s) in the scope	Yes, in the case of any change(s) in the
	of the project, the project would require	scope of the project, fresh appraisal will be
_	a fresh appraisal by this Department.	taken.
xlvi.	A separate environment management	Yes, separate environment management
	cell with qualified staff shall be set up	cell will be set up for implementation of the
	for implementation of the stipulated	stipulated environmental safeguards.
		Satish K Glangagan

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ntained for n. Management ck, Hadron & anghvi Block
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convenient location near the main gate of the company in the public domain. The project proponent shall also submit Yes, are submitting Six monthly we environmental clearance compliance report six monthly reports on the status of compliance of the stipulated regularly. Ack. copy of last six-monthly compliance report submitted for period of conditions including results monitored data (both in hard copies as Jan 2023 - June 2023 is enclosed herewith well as by e-mail) to the respective as Annexure - XVIII. Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The environmental statement for each Yes, Environment statement is submitted to financial year ending 31st March in form MPCB Portal according to the condition in - V as is mandated to be submitted by consent is enclosed herewith as Annexure the project proponent to the concerned State Pollution Control Board prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC condition and shall also be sent to the respective Regional Office of MoEF by e-mail.

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

This environmental clearance is issued | Yes, above condition is noted. subject to land use verification. Local authority/ planning authority should ensure this with respect to Rules, Regulations, notifications, Government Resolutions, Circular etc. issued if any. Judgements/ orders issued by Hon'ble High Court, Hon'ble NGT, Hon'ble Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified. PP should submit exactly the same plans appraised by concern SEAC and SEIAA. If any discrepancy found in the plans submitted or details provided in the above para may be reported to environment department. This environmental clearance issued with respect the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.

- 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
- 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 vide CIDCO/ACP(BP/DP/NT)/EC/2018/642; Date: 12th January 2018 & SEIAA-EC-0000000084 Dated 4th May 2017 for Bio
- Environment Clearance for Addition of "Shantilal one hospital Shanghvi Pediatric Hematolymphoid Centre" in existing ACTREC vide no. SEIAA-EC-0000002065 7th dated 10 marges November 2019.

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

		EC No. EC23B039MH160026 Dated 23rd February 2023 for Environment Clearance for Proposed Development of Existing layout of Tata Memorial Centre ACTREC campus. (EC for TMC Child Care Centre)
ii.		Not Applicable, No E- waste will be
	Authorized vendor as per E - waste	generated from the proposed project. If
	(management and handling) Rules, 2011	generated any will be disposed off as per E
		- waste (management and handling) Rules, 2011.
	This environmental Clearance is issued	Yes, Total water requirement for existing &
iii.	subject to utilization of excess treated	proposed expansion is enclosed as
	water.	Annexure - XIX.
2	Occupation Certificate shall be issued to	Yes, Occupation Certificate will be obtained
iv.	the project only after ensuring	only after ensuring availability of drinking
	availability of drinking water and	water and connectivity of the sewer line to
ì	connectivity of the sewer line to the	the project site.
	project site.	Property Commence
v.	Provide reserve parking at least three	Reserve parking is provided for three
	ambulances near the entrance, one for	ambulances near main entrance and one for
	fire tender and one for physically	fire tender one for physically challenged
	challenged persons	persons.
vi.	PP has to abide by the conditions stipulated by SEAC & SEIAA.	Yes, all conditions mentioned will be followed by PP.
vii.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the building. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.	Existing Sewage generation is about 108.14 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 addition, 600 KLD capacity STP is commissioned at ACTREC campus. Solid waste generated from existing Hospital facility will be sent to approved landfilling site after segregation and sale of recyclables & inert regularly. Considering on-going projects as well as
		proposed Construction of "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre", a centralized STP of 600 KLD capacity for ACTREC campus and now the construction work is completed and commissioned.
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Satish K. Bhangale Engineer 'D' (Civil) Engineering Services TMC-ACTREC, Khargha

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viii.	Wet garbage should be treated by	Yes, Total	waste	generation	in the	pre-	
VIII.	Organic Waste Converter and treated	Yes, Total waste generation in the pre- construction and construction phase:					
	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.	Waste Generation	Exist ing	.Proposed	roposed Sio Bank		
	this.	Non- Biodegrad able	55.2 5 kg/ day	513.8 kg/day	0.75 kg/d ay	95.2 kg/ day	
		Bio- degradabl e waste	55.2 5 kg/ day	274.7 kg/day	0.5 kg/d ay	74.8 kg/ day	
		STP Sludge	0.1 kg/ day	0.1	0.1 kg/d ay	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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