

टाटा स्मारक केंद्र TATA MEMORIAL CENTRE

टाटा स्मारक अस्पताल TATA MEMORIAL HOSPITAL



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

AA No. 1314002

Date-1st December 2024

To, Regional Office, Ministry of Environment, Forest & Climate Change A/3, Chandersekharpur, Bhubaneshwar – 751023

Sub: Six-monthly Compliance (Session: December 2024) of the stipulated Environmental conditions/safeguards in the Environmental clearance letter and Environmental Monitoring Report for "Homi Bhabha Cancer Hospital and Research Centre" located at Tehsil Jatni, Khurda, Odisha by Tata Memorial Centre.

Ref: Environmental Clearance File No. 456865/01-INFRA2/12-2023 Dated 06th May 2024.

Dear Sir,

This is in reference to the State Level Environmental Impact Assessment Authority, Odisha, Bhubaneswar EC vide File No. **456865/01-INFRA2/12-2023** Dated **06th May 2024**.

in which we have been asked to submit the compliance with the specific and general conditions of the same.

In view of above, we are approaching you by submitting a copy of the following information/ documents for your kind perusal:

- 1. Point-wise compliance of the stipulated environmental conditions/ safeguards, along with necessary documents & annexures.
- 2. Environmental monitoring report along with other necessary permissions/documents.

We fully assure you that we will comply with all conditions as specified in the Environment clearance granted to us. Details of Representative are as follows:

News	Dr Lingraj R Nayak
Name	Professor (Medical Oncology)
Designation	+91-9167294976
Contact no.	nayakl@tmc.gov.in
Email ID	lingarajnayak86@gmail.com

Dr. E. Borges Marg, Parel Mumbai - 400 012. India. Phone : +91-22-2417 7000 +91-22-6953 7300 Thanking you, Yours Sincerely,

For Tata Memorial Centre

Name: Dr Lingraj R Nayak Designation: Professor (Medical Oncology) डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK

प्राध्यापक/PROFESSOR प्राध्यापक/PROFESSOR हेमाटोलिम्फॉईड विभाग (वयस्क)/HEMATOLYMPHOID DIVISION (ADULT) मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY टीएमसी, मुंबई/ TMC, MUMBAI.

CC:

- 1. The Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar.
- 2. The Member Secretary SEIAA, Odisha, 5RF-2/1,Acharya Vihar,Unit IX,OPTCL Colony, Anand Bazar, Bhoi Nagar, Bhubaneswar, Odisha 751022

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POINTWISE COMPLIANCE OF STIPULATED ENVIRONMENTAL CONDITIONS/ SAFEGUARDS IN THE ENVIRONMENTAL CLEARANCE

EC File No. 456865/01-INFRA2/12-2023 dated 06th May 2024.

OF

"Homi Bhabha Cancer Hospital and Research Centre"

At

Tehsil Jatni, Khurda, Odisha by Tata Memorial Centre

FOR

December 2024

Tata Memorial Centre

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POINT-WISE COMPLIANCE OF STIPULATED ENVIRONMENTAL CONDITIONS/ SAFEGUARDS IN THEENVIRONMENTAL CLEARANCE LETTER NO. 456865/01-INFRA2/12-2023DATED 6thMAY, 2024 FOR HOMI BHABHA CANCER HOSPITAL AND RESEARCH CENTRE LOCATEDAT TEHSIL JATNI, DIST.KHORDHA, ODISHA.

SI. No.	Conditions	Status of Compliance
SPECIFIC H	ENVIRONEMENTAL CONDITIONS AN	ND SAFEGUARDS WHICH NEED TO BE
COMPLIED	WITH BY THE PROJECT PROPONENT	BEFORE BREAKING OF LAND:
	mpliance Points	
i.	The project proponent shall also obtain	Agreed.
ф.	permission/NOC from Executive Engg.	As of now, only excavation work has commenced
	(PHD) and or from the appropriate	at the initial stage. The STP will be installed
	authority for disposal of excess STP	before the project's operational phase. According
	treated water to the nearest drain and	to the MoM executed between the Government of
	also submit the same to SEIAA, Odisha	Odisha and Tata Memorial Centre, the
	before start of construction work. Also,	Government of Odisha will provide water supply
	in case of the connecting drain passing	electricity, access to stormwater drainage, and
	through start other land (Government or	road connectivity. This arrangement has been
	Private Land), the proponent shall obtain	documented in the Minutes of the Meeting held
	the permission as the case may be.	on January 9, 2024, at 3:30 PM under th
	1750	Chairmanship of the Chief Secretary of Odisha.
		Copy of the MoM is enclosed as Annexure-I.
ii.	Plantation and solar facilities to be	Agreed.
	implemented as proposed at appropriate	As of now, only excavation work has commenced
	time.	at the initial stage. Plantation and solar facilitie
		will be implemented as proposed at appropriat
		time.
iii.	Parking in terms of ECS (4-wheeler, 2-	Agreed.
	Wheeler and bicycle) shall be provided	As of now, only excavation work has commence
		Daiple
TATA N	1EMORIAL CENTRE	ातगराज नायक/DR. LINGARAJ NAYAK O Page 1
		यापक/PROFESSOR शनिवर्माइंड विभाग (वयस्क)/HEMATOLYMPHOLO DIVISION (ADULT)
		ार्गल ऑन्कोलॉजी विभाग/DEPI. OF MEDICAL ONCOLOGY
	যা	प्रायो, मुंबई/ TMC, MUMBAI.

	commetible with surged at some bar of	at the initial stage. We have provision of
	compatible with expected number of	parking as per the by-laws.
	patients and attending visitors, OPD	parking as per the by-laws.
	patients and visitors with them, Doctor's	
	and staffs, nursing sisters and at least	
	10% floating population in confirmative	
	with building by- laws/NBC	
	norm/applicable laws and rules for this	
	kind of project.	-
iv.	The proponent shall operate STP and	Agreed.
	ETP separately as standalone system and	We assure that the STP and ETP will be opera
	both shall not be inter-connected. ETP	as separate standalone systems without a
	outlet shall not be discharged to outside	interconnection. Site Layout showing the locat
	the project premises i.e "Zero discharge"	of the STP-1, STP-2 and ETP is enclosed
	from ETP to outside the premises shall	Annexure-II.
	be maintained.	
v.	The Decongestion plan as given by	Agreed.
	proponent in the traffic density study	As of now, only excavation work has commend
	report shall be implemented for	at the initial stage. Same will be followed.
	compliance with definite time frame.	
vi.	The proponent shall make agreement	Agreed.
	with nearby Common Bio-Medical	As of now, only excavation work has commented
	Waste Treatment Facility having	at the initial stage. Same will be followed.
	incinerator facilities for disposal of	
	infectious waste, organic waste and	
	health hazardous wastes.	
vii.	The proponent shall obtain permission	Agreed.
	from concerned authority for discharge	As of now, only excavation work has commen
	of surplus treated water of STP only to	at the initial stage. The STP will be instal
	nearby drain & nallah.	before the project's operational phase. Accord
		to the MoM executed between the Governmen
		ताध्यापक/PROFESSOR मारोलिम्फॉईड विभाग (वयस्क)/HEMATOLYMPHOLO DIMISION (ADIA D)

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		Odisha and Tata Memorial Centre, th
3		Government of Odisha will provide water suppl
		electricity, access to stormwater drainage, ar
		road connectivity. This arrangement has been
		documented in the Minutes of the Meeting he
		on January 9, 2024, at 3:30 PM under th
		Chairmanship of the Chief Secretary of Odisha.
		Copy of the MoM is enclosed as Annexure-I.
viii.	The Approval of the Competent	Agreed.
	Authority shall be obtained in regard to	We have obtained the Structural Stabili
	structural safety of building against	certificate. Same has been enclosed as Annexur
	earthquake, adequacy of fire-fighting	III.
	equipment as per National Building	
	Code including protection measures	
	from lightning.	
ix.	The project proponent shall obtain all	Agreed.
	necessary clearance/ permission from all	We have obtainedBDA approval vide Letter n
	concerned agencies including	BP/BDA/013676, Bhubaneswar, date
	BMC/BDA authority before	06.03.2024 from the Bhubaneswar Development
	commencement of work in accordance	Authority. Copy of the same is enclosed a
	with the local building byelaws.	Annexure-IV.
х.	The proponent shall obtain permission	Agreed.
	from concerned Fire Safety Authority	As of now, only excavation work has commence
	and implement all conditions stipulated	at the initial stage. Fire Safety plan is enclosed a
	in NOC.	Annexure-V.
xi.	The Construction and Demolition waste	Agreed.
	to be generated during demolition of	As of now, only excavation work has commence
	existing structure shall be managed as	at the initial stage. Construction and Demolitic
	per Construction and Demolition Waste	waste to be generated during demolition
	management.	existing structure will be managed as p

TATA MEMORIAL CENTRE

डाँ. लिंगराज नायक/DR. LINGARAJ NAYAK Page 3 प्राध्यापक/PROFESSOR हेगारोलिम्फॉइंड विभाग (वयस्क)/HEMATOLYMPHOIO DIVISION (ADULT) मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY टॉएमसी, मुंबई/ TMC, MUMBAI.

	cd at Khordha, Odisha DECEMBER 2024	
		Construction and Demolition Waste management
xii.	The proponent shall implement the Pollution Control Measures and safeguard as proposed in the Environment management Plan (EMP) of project report.	Agreed. We will implement the pollution control measure and safeguards as outlined in the Environment Management Plan (EMP) of the project repor Environment measures has been enclosed a <i>Annexure-VI</i> .
xiii.	Rainwater harvesting shall be designed considering the maximum rainfall of a year accordingly, number of RWH shall be implemented.	Agreed. As of now, only excavation work has commenced at the initial stage. We have provision of adequa number of Rainwater Storage Tanks. It will be implemented before the Operational Phase of project.
xiv.	All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable to the project by the proponent from the respective competent authorities.	Agreed. Currently, only excavation work has commence in the initial stage. No diesel is stored at the sit it will be procured from a nearby petrol pump needed.
xv.	The Project Proponent shall advertise in at least two local Newspaper widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environment Clearnce and copies of clearance letters are available	Agreed and Noted. इ.ॅ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यापक/PROFESSOR हेमाटोलिम्फॉईंड विभाग (वयस्क)/महम्भवारी/ MPHOID DAVISION (ADILI) हेमाटोलिम्फॉईंड विभाग (वयस्क)/महम्भवारी/ MPHOID DAVISION (ADILI)

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टीएमसी, मुंबई/ TMC, MUMBAI.

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Locate		
	with the State Pollution Control Board	
	and may also be seen on the website of	
	SEIAA, Odisha. The advertisement shall	
	be made within seven days from the date	
	of receipt of the Clearance letter and	
	copy of the same shall be forwarded to	
	the Regional Office of MoEF&CC,	
	Bhubaneswar.	
xvi.		greed and Noted.
XVI.		greed and Noted.
	by Proponent to concerned Panchayat,	
	Zilla Parishad/ Municipal Corporation,	
	Urban Local Body and the Local NGO,	
	if any , from whom suggestions/	
	representations, if any . were received	
	while processing the proposal. The	
	clearance letter shall also be displayed at	
	the Regional Officer, District Industries	
	centre and Collector's Office/tahsildar's	
	office for 30 days.	
	ENVIRONEMENTAL CONDITIONS AND	
COMPLIE	D WITH BY THE PROJECT PROPONENT D	URING CONSTUCTION PHASE:
Water Requ	uirement:	
i.	The project proponent shall adopt &	Agreed.
	implement net 'Zero liquid discharge'	The project is expected to generat
	principle and shall maximize recycle and	approximately 343 KLD of wastewater. C
	reuse of treated waste water generated in the	this, around 78 KLD will be treated in an or
	project. All waste generated shall be treated	site ETP with a capacity of 95 KL, while 26
	in the STP and the treated waste water shall	KLD will be treated in an on-site STP with
	be recycled and reused within the project so	combined capacity of 350 KL (comprising
	as to minimize external ground water. Also	250 KL unit for the Hospital &PediatricWin
		Provide State
ΤΑΤΑ	MEMORIAL CENTRE डॉ. लिंगराज	न नायक/DR. LINGARAJ NAYAK
		ड विभाग (वयस्क)/HEMATOLYMPHOID DIVISION (ADULT) कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY
		THE NUMBER OF MEDICAL DICOLDOT

राणवनी, मुंबई/ TMC, MUMBAI.

Homi Bhabha Cancer Hospital and Research CentreCOMPI	JANCE REPORT
Located at Khordha, Odisha	DECEMBER 2024

	ground water recharge by surplus waste	and a 100 KL unit for the Dharamshala and
	water in the project plot area shall be	Guest House). The treated water from the STP
	maximized. For discharge of any quantity of	will be reused for flushing and horticulture,
	treated waste water to outside the project	with any surplus discharged into the external
	area premises, the exact location of drain,	sewer line.
	etc. to which such discharge will be made	
	and permission of competent authority	
	allowing such discharge have to be reported	
	. The layout of pipe lines, etc to take the	
	wastewater to the approved discharge point	
	has to be elaborately depicted on map and	
	submitted. The EC is liable to revoked if	
	such report is not submitted by PP.	
ii.	No ground water shall be extracted for the	Agreed.
	project work at any stage during the	Currently, only excavation work has
	construction phase without obtaining the	commenced in the initial stage. We have
	permission from the Water Resources	obtained the Ground water NOC vide no.
	Department, Govt. of Odisha.	CGWA/NOC/INF/ORIG/2024/19943 dated
		23.02.2024 valid from 23.02.2024 up to
		22.02.2029 for construction phase. GCWA
		NOC is enclosed as Annexure-VII. We will
		follow the samein operational phase.
		According to the MoM executed between the
		Government of Odisha and Tata Memorial
		Centre, the Government of Odisha will
		provide water supply, electricity, access to
		stormwater drainage, and road connectivity.
		This arrangement has been documented in the
		Minutes of the Meeting held on January 9,
		2024 at 3:30 PM under the Chairmanship of
	डॉ. लिंगराज नायक/DR. LING	GARAJ NATULAL
	PROFESSOR	0
ΤΑΤΑ ΜΕ	MORIAL CENTRE हेमारोलिएफॉईड विभाग (वयस्क)/IEMA	OLYMPHOLO DWSTAN IAOUTT Page 6

मेडिकल ऑन्कोलॉॅंजी विभाग/DEPT OF MEDICAL ONCOLOGY टीएमसी, मुंबई/ TMC, MUMBAI.

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		the Chief Secretary of Odisha.
		Copy of the MoM is enclosed as Annexure-I
iii.	A certificate shall be obtained from local	Agreed.
	body supplying water, specifying the total	According to the MoM executed between the
	annual water availability with the local	Government of Odisha and Tata Memori
	authority, the quantity of water already	Centre, the Government of Odisha with
	committed the quantity of water allotted to	provide water supply, electricity, access
	the project under consideration and the	stormwater drainage, and road connectivit
	balance water available. This should be	This arrangement has been documented in the
	specified separately for ground water and	Minutes of the Meeting held on January
	surface water sources, ensuring that there is	2024, at 3:30 PM under the Chairmanship
	no impact on the users.	the Chief Secretary of Odisha.
		Copy of the MoM is enclosed as Annexure-
iv.	When the Public water supply will be	Agreed.
	available adjacent to/in vicinity of the	According to the MoM executed between the
	proposed project in future, The PP shall	Government of Odisha and Tata Memori
	avail it following due procedure of the Govt.	Centre, the Government of Odisha w
	if the concerned project in future, The PP	provide water supply, electricity, access
	shall avail it following due procedure of	stormwater drainage, and road connectivit
	Govt if the concerned authority agrees and	This arrangement has been documented in t
	dispense with the drawl of ground water	Minutes of the Meeting held on January
	except one borewell for emergency purpose,	2024, at 3:30 PM under the Chairmanship
	The PP shall take up suitably for purpose	the Chief Secretary of Odisha.
	with the concerned authority of	Copy of the MoM is enclosed as Annexure-
	Government.	
v.	Water demand during the construction	Agreed.
	should be reduced by use of pre-mixed	Currently, only excavation work h
	concrete, curing agents and other best	commenced in the initial stage. We w
	practices.	follow the same.
isposal of Se		
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	ef. frinner n	TWDR. LINGARAN NAVY
ΤΑΤΑ Ν	MEMORIAL CENTRE	
		मग (वयस्क) / HEMATOLYMPHOID DIVISION (ADULT) जित्ति विभाग / DEPT. OF MEDICAL ONCOLOGY

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i.	The solid waste shall be duly segregated into	Agreed.
	biodegradable and non-biodegradable	Currently, only excavation work has
	components and handled in separate areas	commenced in the initial stage. Same will be
	carmarked for segregation of solid waste, as	followed.
	per Solid Waste Management Rules, 2016.	
	The biodegradable waste generated shall be	
	utilized through the Organic Waste	
	Converter to be installed at the project site.	
	Solid waste disposal shall be by micro	
	composting of all bio degradable waste	
	inside the premises. The inert waste (bio-	
	non degradable components like plastics)	
	shall be disposed off as per norms only at	
	authorized site. The mode of disposal of all	
	such waste at any approved site shall be	
	reported, even if it is handed over to any	
	authorized vendor. Construction &	
	Demolition (C&D) waste from the project	
	(debris) shall be segregated and managed as	
	per C&D Waste Management Rules, 2016	
	and the detailed mode of disposal to the final	
	disposal point shall also be reported. The PP	
	shall formulate a concrete implementation	
	plan and submit a report showing on the	
	layout plan of the final disposal point of	
	biodegradable waste, non-biodegradable	
	waste and debris generated during	
	construction. The EC is likely to be revoked	इॉ. लिंगराज नायक/DR. LINGARAJ NAYAK
	if such report is not submitted by PP.	प्राध्यापक/PROFESSOR
Air Quality M		हमाटोलिम्फॉइंड विभाग (वयस्क)/HEMATOLYMPHOD DIVISION (ADULT) प्रेडिकल ऑन्कोलॉनी विभाग/DEPT. DF MEDICAL ONCOLOGY

मेडिकल ऑन्कोलॉजी विभाग/DEPI OF MEDICAL ONCOLOGY टीएमसी, मुंबई/ TMC, MUMBAI.

TATA MEMORIAL CENTRE

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i.	Construction site shall be adequately	Agreed.
	barricaded before the construction begins.	Currently, only excavation work has
	Dust, smoke & other air pollution	commenced in the initial stage. Same will be
	prevention measures shall be provided for	followed. Construction site will be adequately
	the building as well as the site. These	barricaded. We will implement dust, smoke,
	measures shall include screens for the	and other air pollution prevention measures
	building under construction, continuous	for both the building and the site. These
	dust/ wind breaking walls all around the site	measures will include installing screens
	(at least 3-meter height). Plastic/tarpaulin	around the building under construction and
	sheet covers shall be provided for vehicles	erecting continuous dust/wind-breaking walls
	bringing in sand, cement, murram and other	(at least 3 meters in height) around the site.
	construction materials prone to causing dust	Plastic or tarpaulin sheet covers will be
	pollution at the site as well as taking out	provided for vehicles transporting sand,
	debris from the site. Sand, murram, loose	cement, murram, and other construction
	soil, cement, stored on site shall be covered	materials prone to causing dust pollution, as
	adequately so as to prevent dust pollution.	well as for vehicles removing debris from the
	Wet jet shall be provided for grinding and	site. Sand, murram, loose soil, and cement
	stone cutting. Unpaved surfaces and loose	stored on-site will be adequately covered to
	soil shall be adequately sprinkled with water	prevent dust pollution. Wet jets will be used
	to suppress dust.	for grinding and stone cutting, and unpaved
		surfaces and loose soil will be regularly
	3	sprinkled with water to suppress dust. EMP
		measures is enclosed as Annexure-VI.
ii.	All construction and demolition debris shall	Agreed.
	be stored at the site (and not dumped on the	Currently, only excavation work has
	roads or open spaces outside) before they	commenced in the initial stage. We will store
	are properly disposed. All demolition and	all construction and demolition debris at the
	construction waste shall be managed as per	site and ensure it is not dumped on roads or
	the provisions of the Construction and	open spaces outside before proper disposal.
	Demolition Waste Rules, 2016. All workers	All demolition and construction waste will be

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डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK ग्राध्यापक/PROFESSOR हेमारोलिम्फॉईंड विभाग (वयस्क)/IEMATOLYMPHON DIVISION (ADULT)

मेडिकल ऑन्कोलॉजी विभाग/DEPI. OF MEDICAL ONCOLOGY टोएमसी, मुंबई/ TMC, MUMBAI.

	working at the construction site and	managed in accordance with the provisions
	involved in loading, unloading, carriage of	the Construction and Demolition Waste Rule
	construction material and construction	2016. Additionally, all workers at th
	debris or working in any area with dust	construction site involved in loading
	pollution shall be provided with dust mask.	unloading, transporting construction
		materials, debris, or working in areas with
		dust pollution will be provided with du
		masks.
iii.	Notification GSR 94(E) dated 25.01.2018 of	Agreed.
	MoEF&CC regarding mandatory	Same will be followed.
	implementation of dust mitigation measures	Same will be followed.
	for construction and demolition activities for	
	projects requiring environmental clearance	
iv.	shall be complied with.	
1V.	Ambient noise levels shall conform to	Agreed.
	residential standard both during day and	Monitoring has been done during the Octob
	night as per Noise Pollution (Control and	month. Lab data is enclosed as Annexur
	Regulation) Rules, 2000 for the project.	VIII.
	Incremental pollution loads on the ambient	
	air and noise quality shall be closely	
	monitored during construction phase.	14
	Adequate measures shall be made to reduce	
	ambient air and noise level during	
	construction phase, so as to conform to the	
	stipulated standards by CPCB / SPCB.	
latural Dra	inage:	
i.	The natural drain system should be	Agreed.
	maintained for ensuring unrestricted flow of	Currently, only excavation work ha
	water. No construction shall be allowed to	commenced in the initial stage. Same will b
	obstruct the natural drainage through the	followed.
	डॉ. लिंगराज नायक प्राध्यापक/PROFES	TDR. LINGARAJ NAVASUYU
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	site, on wetland and water bodies. Check	
	dams, bio-swales, landscape and other	
	Sustainable Urban Drainage Systems	
	(SUDS) are allowed for maintaining the	
	drainage pattern and to harvest rain water.	
	Buildings shall be designed to follow the	
	natural topography as much as possible.	
	Minimum cutting and filling should be done.	
ii.	The permission from competent authority	Agreed.
	will be obtained to discharge the excess	According to the MoM executed between the
	storm water to drain if any. The proponent	Government of Odisha and Tata Memorial
	shall renovate the existing drain to	Centre, the Government of Odisha will
	accommodate the discharge and maintain it	provide water supply, electricity, access to
	perennially.	stormwater drainage, and road connectivity.
	a	This arrangement has been documented in the
		Minutes of the Meeting held on January 9,
		2024, at 3:30 PM under the Chairmanship of
		the Chief Secretary of Odisha.
		Copy of the MoM is enclosed as Annexure-I.
Provision for	construction labour:	
i.	Provisions shall be made for the housing of	Agreed.
	construction labour within the site with all	Currently, only excavation work has
	necessary infrastructure and facilities such	commenced in the initial stage.We have
	as fuel for cooking, mobile toilets, mobile	provision for the housing of construction
	STP, safe drinking water, medical health	labour within the site with all necessary
	care, creche etc. The housing may be in the	infrastructure and facilities such as fuel for
	form of temporary structures to be removed	cooking, mobile toilets, mobile STP, safe
	after the completion of the project.	drinking water, medical health care, creche
		etc. Most of the labours from local area.
ii.	A First Aid Room shall be provided in the	Agreed.
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ΤΑΤΑ Ν	MEMORIAL CENTRE	न नायक/DR. LINGARAJ NAYAK Tage 11
	प्राध्यापक/P	ROFESSOR () इ.विभाग (वयस्क.)/HEMATOLINPHOID DIVISION (ADULT)
		कोलॉजी विभाग/DEPT OF MEDICAL ONCOLOGY
	रीएमसी, मुंब	彰/ TMC, MUMBAI.

Located	at Khordha, Odisha	DECEMBER 2024
	project both during construction and operations of the project	Currently, only excavation work has commenced in the initial stage. We will follow the same.
Fop Soil Pre	servation and Reuse:	
i.	Topsoil should be stripped to depth of 20 cm	Agreed.
	from the areas proposed for building, road,	Same has been/will be followed.
	paved, areas, and external services. It should	
	be stockpiled appropriately in designed	
	areas and reapplied during planation of the	
	proposed vegetation site.	×
SPECIFIC	ENVIRONMENTAL CONDITIONS AND	SAFEGUARDS WHICHNEED TO BE
	WITH BY THE PROJECT PROPONENT DU	
	rement and Rain Water Harvesting:	
i.	For meeting the total fresh water	Agreed.
	requirement for the project upto maximum	At present, only excavation work has begun ir
	308KLD (Total water requirement-679 KLD	the initial stage. Permission will be sought for
	(approx.) i,e. first time before recycle) from	the fresh water requirement prior to the
	ground water source, necessary prior	operational phase to ensure adequate supply.
	permission has to be obtained from the	
	Water Resources Department, Govt. of	
	Odisha/ CGWB, failing which no ground	
	water is allowed to be tapped. The PP shall	
	install tamper proof digital flow meter at all	
	water drawal and intake points for the	
	project.	а.
ii.	The PP shall install one piezometer for	Agreed.
	ground water level monitoring and water	We will follow the same.
	level data shall be made available to CGWA	
	through web portal as a part of six monthly	Deryour
	compliance report. The PP shall comply	डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK
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		प्राध्यापक/PROFESSOR इमाटोलिम्फॉईड विभाग (वयस्क)/HEMATOLIMPHOID DIVISION (ADULT) हेमाटोलिम्फॉ विभाग/DEPT OF MEDICAL ONCOLOGY

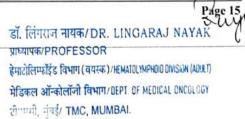
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	CGWB.	
iii.	The quantity of fresh water usage, water	Agreed:
	recycling and rainwater harvesting shall be	We will measure and record the quantity
	measured and recorded to monitor the water	fresh water usage, water recycling, an
	balance as projected by the project	rainwater harvesting during the operation
	proponent. The record shall be submitted to	phase to monitor the water balance a
	the Integrated Regional Office, MoEF&CC	projected. The records will be submitted to the
	and SEIAA, Odisha along with six monthly	Integrated Regional Office, MoEF&CC, an
	Monitoring reports.	SEIAA, Odisha, along with the six-monthl
		monitoring reports.
iv.	The PP shall comply with all conditions as	Agreed.
	specified by CGWB/ Water Resources	Same will be followed.
	Department, Govt. of Odisha for the project	
	for abstraction of ground water.	
v.	Installation of dual pipe plumbing for	Agreed.
	supplying fresh water for drinking, cooking	We have provision of the dual plumbing plan
	and bathing etc. and other for supply of	during the operational phase.
	recycled water for flushing, landscape	
	irrigation, car washing, thermal cooling,	
	conditioning etc. shall be done.	
vi.	Use of water saving devices/ fixtures (viz.	Agreed.
	low flow flushing systems; use of low flow	Same will be followed.
	faucets tap aerators etc.) for water	
	conservation shall be incorporated in the	
	building plan.	
vii.	Separation of grey and black water should	Agreed.
	be done by the use of dual plumbing system.	We have provision of the dual plumbing plan
	In case of single stack system separate	during the operational phase.
	recirculation re lines for flushing by giving	
	dual plumbing system be done.	
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ТАТА	MEMORIAL CENTRE	लिंगराज नायक/DR. LINGARAJ NAYAK
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	हेमा	रोलिम्फोईड विभाग (वयस्क)/HEMATOLYMPHOLODIVISION (ADU.T) इकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY
	मेहि	कल आन्कोलाजा विभाग घर गुरु के संघर्ष जन्मी, मुंबई/ TMC, MUMBAI.

viii.	Any ground water dewatering should be	Agreed.
	properly managed and shall conform to the	At present, only excavation work has begun i
	approvals and the guidelines of the CGWA	the initial stage. Permission will be sought for
	in the matter. Formal approval shall be taken	the fresh water requirement prior to the
	from the CGWA for any ground water	operational phase to ensure adequate supply.
	abstraction or dewatering. The proponent	
	shall also obtain permission from Water	
	Resources Department, Govt. of Odisha for	
	drawl of water.	
ix.	The proponent shall keep one bore well as	Agreed.
	standby domestic water source once	We will follow the same.
	municipal water supply is made available in	
	the project area.	
x.	A complete plan for rainwater harvesting at	Agreed.
	the proposed site shall be drawn up and	Same will be followed.
	implemented. The complete rainwater	
	harvesting plan shall be submitted to SEIAA	
	within one month from this day. As	
	proposed, 03 nos. of rainwater harvesting	
	structures/tanks/pits for artificial ground	
	water recharge shall be installed as per	
	CGWB guidelines	
olid Waste	Management	
i.	The provisions of the Solid Waste	Agreed.
	(Management) Rules, 2016, E-Waste	Currently, only excavation work ha
	(Management) Rules, 2016, and the Plastics	commenced in the initial stage.We have
	Waste (Management) Rules, 2016 shall be	provisions of the Solid Waste (Managemen
	followed.	Rules, 2016, E-Waste (Management) Rule
		2016, and the Plastics Waste (Managemen
		Rules, 2016 will be followed.
	डॉ. लिंगराज नायक/DR. LINGA प्राध्यापक/PROFESSOR	1
ΤΑΤΑ Ν	MEMORIAL CENTRE हेमाटोलिम्फोईड विभाग (वयस्क)/तर्क्षकाणताल मेडिकल ऑन्कोलॉजी विभाग/DEPT OF M	
	माइकल आन्कोलाजा विभाग घटन घटन टोएमसी, मुंबई/ TMC, MUMBAI.	

Locate	d at Khordha, Odisha	
ii.	All bio-medical waste generated from the project will be disposed through an approved agency as per Biomedical Waste Management Rules, 2016 and amendments thereafter.	Agreed. Same will be followed.
iii.	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Agreed. Currently, only excavation work has commenced in the initial stage. We will assure that disposal of muck during construction phase will not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only if approved sites with the approval of competer authority.
iv.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into bio-degradable and inert materials. Bio-degradable waste shall be composted in Organic Waste Converter. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from the project will be sent to dumping site.	Agreed. Currently, only excavation work has commenced in the initial stage. We will provide separate wet and dry bins in each un and at ground level to facilitate was segregation. Solid waste will be segregated into biodegradable and inert material Biodegradable waste will be composted in a Organic Waste Converter. Adequate space will be allocated within the premises for solid waste management, including areas for segregation and composting. Inert waste from the project will be sent to a designate dumping site.Waste management plan

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v.	Any hazardous waste/or radioactive waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Agreed. Same will be followed.
vi.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste generated from project shall be obtained.	Agreed. Currently, only excavation work has commenced in the initial stage. Same will h followed.
wage Treat	tment Plant	
	250 KL for Hospital & Pediatric Wing and 1 x 100 KL for Dharamshala and Guest House) shall be installed before start of the operation phase of the building. Treatment of 100% grey water by decentralized treatment should be done. The treated waste water from STP shall be recycled / reused to the maximum extent possible. Flushing, washing, watering of the lawns and gardening, filter backwash, cleaning of the floors, etc. facilities are to be met by recycled water. Discharge of unused treated waste water shall conform to the norms and standards of the Odisha State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from	We will install an STP with combinedcapacity of 350 KL (comprising 1 250 KL for the Hospital & Pediatric Wing an 1 x 100 KL for the Dharamshala and Gue House) before the start of the operation phase of the building. Decentralized treatme of 100% grey water will be implemente Treated wastewater from the STP will be recycled and reused to the maximum exte possible for purposes such as flushin washing, lawn watering, gardening, filt backwash, and floor cleaning. Any unuse treated wastewater will comply with the norms and standards set by the Odisha Sta Pollution Control Board.
	STP. The sewage treatment plant shall be	We will take necessary measures to mitiga
	डॉ. लिंगराज नाय	TAT/DR. LINGARAJ NAYAK
TATA N	IEMORIAL CENTRE	ESSOR ताग (वयस्क)/HEMATOLYMPHOLO DIVISION (AUGUT) Page 16 जिनी विभाग/DEPT. OF MEDICAL ONCOLOGY

रीएमसी, मुंबईं। TMC, MUMBAI.

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	made functional before the completion of	any odour issues from the STP. The sewa
	Building Complex. Periodical monitoring of	treatment plant will be made functional before
	water quality of treated sewage shall be	the completion of the building complex, a
	conducted. Necessary measures should be	periodic monitoring of the treated sewage
	made to mitigate the odour problem from	water quality will be conducted to ensu
	STP.	compliance.
ii.	ETP of 95KLD shall be installed to treat	Agreed.
	clinical/hospital waste water generated from	ETP of 95KLD will be installed to tre
	the project.	clinical/hospital waste water generated from
		the project.
iii.	Excess treated water shall be discharged to	Agreed.
	the drain only after getting permission from	We will discharge excess treated water to the
	the concerned authority. The proponent shall	drain only after obtaining permission from the
	renovate the existing drain to accommodate	concerned authority. Additionally, we w
	the discharge and maintain it perennially	renovate the existing drain to accommoda
		the discharge and ensure its perenni
		maintenance.
iv.	A certificate from the competent authority	Agreed.
	shall be obtained for discharging treated	A certificate from the competent authority
	effluent/ untreated effluents into the Public	will be obtained for discharging treate
	sewer/disposal/drainage systems along with	effluent/ untreated effluents into the Publ
	the final disposal point.	sewer/disposal/drainage systems along with
		the final disposal point.
v.	The wastewater generated shall not be	Agreed.
	allowed to mix with storm water. The	We have the provision for the same.
	Project Proponent shall ensure separate	
	approved line for discharge of treated waste	
	water and that of storm water. No sewage or	
	untreated effluent water would be	
	discharged through storm water drains.	

डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यापक/PROFESSOR हेमाटोलिम्फॉईंड विभाग (वयस्क)/HEMATOLYMPHOID DIVISION (ADULT) मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY टीएमसी, मुंबई/ TMC, MUMBAI.

Located	at Knordna, Odišna	
vi.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	Agreed. Same will be followed.
vii.	The proponent shall obtain permission from the concerned authority to discharge the liquid waste to any drain i.e. the competent authority of the drain and "Nala" before commencement of any activity at the project site.	Agreed. According to the MoM executed between the Government of Odisha and Tata Memoria Centre, the Government of Odisha will provide water supply, electricity, access to stormwater drainage, and road connectivity This arrangement has been documented in the Minutes of the Meeting held on January 9 2024, at 3:30 PM under the Chairmanship of the Chief Secretary of Odisha. Copy of the MoM is enclosed as <i>Annexure-I</i> .
Energy Cons	servation:	
i.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that	Agreed. We have provision as per the ECBC. Energy Conservation measures is enclosed as <i>Annexure-X</i> .
	minimize energy consumption in buildings	\frown
	by using design elements, such as building orientation, landscaping, efficient building डॉ. लिंग प्राप्यापक	RIA TIZA /DR. LINGARAJ NAYAK
ΤΑΤΑ Ν	orientation, landscaping, efficient building डॉ. लिंग प्राध्यापक	सान नायक/DR. LINGARAJ NAYAK WPROFESSOR

	envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u- values shall be as per ECBC specifications.	
ii.	Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	Agreed. We have provision as per the ECBC. Energ Conservation measures is enclose as/ <i>Annexure-X</i> .
iii.	The proponent shall use renewable energy/ solar power of at least 5% of projected power requirement for the building premises as proposed.	Agreed. We have provision of the same.
iv.	Solar energy shall be installed to meet electricity generation equivalent to 5% of the demand load/or as proposed or as per the state level/ local building bye-laws requirement, whichever is higher & feasible. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	Agreed. We have provision of the same.
v.	Solar power shall be used for lighting in the apartment to reduce the power load on grid.	Agreed. Same will be followed.

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	Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher.	
vi.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction	
vii.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be submitted.	Agreed. Electricity Assurance has been received from the office of Special Secretary (PH) to government (Government of Odisha- Healt and Family Department) Vide letter not HFW-MEII-ESTT-0013-2022- 21750/H&F.W dated 28.09.2022. Copy of the same is enclosed as Annexure-XI.
Air Quality M	प्राध्यापक/PF	। नायक/DR. LINGARAJ NAYAK UYCUL ROFESSOR इ विभाग (वयस्क)/HEMATOLIMPHOID DIVISION (ADULT) कोलॉर्जो विभाग/DEPT OF MEDICAL DIRECTOR

Homi Bhabha Cancer Hospital and Research CentreCOMPLIA	NCE REPORT
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i.	The gaseous emissions from DG set shall be	Agreed.
	dispersed through adequate stack height as	We have proposed the stack height of DG a
	per CPCB standards. Acoustic enclosure	as per the CPCB standards. Stack heigh
	shall be provided to the DG sets to mitigate	calculation is enclosed as Annexure-XII.
	the noise pollution. Low sulphur diesel shall	
	be used. The location of the DG set and	
	exhaust pipe height shall be as per the	
	provisions of the Central Pollution Control	
	Board (CPCB) norms.	
reenbelt I	Development	
i.	Green-belt, lawn area & avenue plantation	Ágreed.
	of trees over the area of	We will develop a green belt, lawn area, an
	34,530.51Sqmt.(20.53% of plot area) shall	avenue plantation of trees over an area of
	be done using native tree species/shrubs	34,530.51 sq. meters (20.53% of the plot area
	improving greenery & keeping in view	using native tree species and shrubs
	aesthetics considerations in the whole	enhance greenery and maintain aesthet
	complex. The species with heavy foliage,	appeal throughout the complex. Tree specie
	broad leaves and wide canopy cover are	with heavy foliage, broad leaves, and with
	desirable. Professional landscape architects	canopy cover will be prioritized. Profession
	should be engaged to design the green	landscape architects will be engaged to desig
	layout to provide for multi-tier plantation	the green layout, ensuring multi-tier plantation
	and green fencing all around, mitigating	and green fencing around the premises
	various environmental pollutants like dust,	mitigate environmental pollutants such a
	noise, emissions etc. A minimum of 1 tree	dust, noise, and emissions. We will plant an
	for every 80 Sqmt of land should be planted	maintain a minimum of one tree for every 8
	and maintained.	sq. meters of land.
		Landscape detail is enclosed as Annexure
		XIII.
ii.	Rainwater from open spaces shall be	Agreed.
	collected and reused for landscaping and	We will collect rainwater from open space

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डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यायक/PROFESSOR हेमारोलिम्प्रोइंड विभाग (ययस्क)/IEMATOLYMPHOLO DIVISION (ADIA.T) मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY रोग्ये रोगई/ TMC, MUMBAI.

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	t Knordna, Odišna	DECEMBER 2024
	other purposes. Roof top rain water harvesting shall be adopted for the proposed Buildings. Rainwater harvesting at the proposed site shall be implemented. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter, oil and grease.	and reuse it for landscaping and othe purposes. Rooftop rainwater harvestin systems will be implemented for the propose buildings. Rainwater harvesting will b carried out at the site, and before rechargin the surface runoff, pre-treatment will b conducted to remove suspended matter, oi and grease.
Parking, Traf	fic & Transportation:	
i.	 A comprehensive mobility plan, as per Ministry of Urban Development best practices guidelines (URDPFI), shall be prepared to include motorized, non- motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. > Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. > Traffic calming measures > Proper design of entry and exit points. Parking norms as per local regulation 	
ii.	roads within a 01 km radius of the project is	commenced in the initial stage. Same will b
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	maintained and improved upon after the	
	implementation of the project. This plan	
	should be based on cumulative impact of all	
	development and increased habitation being	
	carried out or proposed to be carried out by	
	the project or other agencies in this 01 km	
	radius of the site and the traffic management	
	plan shall be duly validated and certified by	
	the State Urban Development department	
	and the P.W.D./ competent authority for	
	road augmentation and shall also have their	
	consent to the implementation of	
	components of the plan which involve the	
	participation of these departments.	
iii.	Vehicles hired for bringing construction	Agreed.
	material to the site should be in good	Currently, only excavation work ha
	condition and should have a pollution check	commenced in the initial stage. Same will be
	certificate and should conform to applicable	followed.
	air and noise emission standards be operated	
	only during non-peak hours.	
iv.	A dedicated entry/exit and parking shall be	Agreed.
	provided for commercial activities.	Currently, only excavation work ha
		commenced in the initial stage. We have
		provision for the same.
v.	Barricades shall be provided around project	Agreed.
	boundary.	Barricades will be provided around project
		boundary.
vi.	Speed of the vehicles shall be restricted upto	Agreed.
	15 kmph by erecting speed bumps at regular	We will restrict the speed of vehicles to
	intervals at project site and proper signage	maximum of 15 kmph at the project site b

TATA MEMORIAL CENTRE

Page 23 डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यापक/PROFESSOR हेमाटोलिम्फ्रीईंड विभाग (वयस्क)/HEMATOLYMPHOLO DIVISION (ADULT) मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY टीएजमी मंबईं/ TMC, MUMBAI.

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	Bhabha Cancer Hospital and Research Centre <i>COMPLIA.</i> ed at Khordha, Odisha	DECEMBER 2024
	shall be provided for guided vehicular movement and speed restrictions.	installing speed bumps at regular interval Proper signage will be provided to ensu- guided vehicular movement and enforce spea- restrictions.
vii.	Parking shall be prohibited on the access road to the proposed to the site.	Agreed. Same will be followed.
viii.	Parking in terms of ECS & space, both for 4 wheelers / 2 wheelers for the project shall be provided as per the norms considering the residents and visitors in the project.	Agreed. Same will be followed.
ix.	Footpath shall be seamless with sufficient	Agreed.
	width.	We will follow the same.
х.	No vehicles shall be allowed to stop and	Agreed.
	stand in front of the gate on main access.	No vehicles will be allowed to stop and star
		in front of the gate on main access.
xi.	A buffer of minimum 10 m shall be	Agreed.
	maintained between the entry/exit gate and	Same will be followed.
	the road to avoid traffic congestion	
vironme	nt Management Plan:	
i.	The company shall have a well laid down	Agreed.
	environmental policy duly approve by the	Same will be followed.
	Board of Directors/project authority. The	
	environmental policy should prescribe for	
	standard operating procedures to have	
	proper checks and balances and to bring into	
	focus any infringements/deviation/violation	
	of the environmental forest/wildlife norms/	2
	conditions. The company shall have defined	\cap
	system of reporting infringements /	Lugu
	deviation/violation of the	UNGARAJ NAYAK
	environmental/forest/wildlife	डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK
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ТАТА	MEMORIAL CENTRE	Page 24
		मेडिकल आन्कोलाजा होएससी. रोएमसी, मुंबई/ TMC, MUMBAI.

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	norms/conditions and/or shareholders / stake	
	holders. The copy of the board resolution in	
	this regard shall be submitted to the	
	Integrated Regional Office. MoEF&CC,	×
	Govt. of India, Bhubaneswar as well as	
	SEIAA, Odisha as a part of six-monthly	
	report.	
ii.	An Environmental Management Plan (EMP)	Agreed.
	shall be prepared and implemented to ensure	We have provision of Environment
	compliance with the environmental	Management Cell. EMC is enclosed
	conditions specified above. A dedicated	asAnnexure-XIV.
	Environment Monitoring Cell with defined	
	functions and responsibility shall be put in	
	place to implement the EMP. The	
	environmental cell shall ensure that the	
	environment infrastructure like sewage	
8	treatment plant, landscaping, rain water	
	harvesting, energy efficiency and	-
	conservation, water efficiency and	
	conservation, solid waste management,	
	renewable energy, etc. are kept operational	
	and meet the required standards. The	
	environmental cell shall also keep the record	
	of environment monitoring and those related	
	to the environment infrastructure.	
iii.	Action plan for implementing EMP and	Agreed.
	environmental conditions along with	Same will be followed. We have provision of
	responsibility matrix of the company shall	Environment Management Cell. EMC is
	be prepared and shall be duly approved by	enclosed as Annexure-XIV.
	competent authority. The year wise funds	

TATA MEMORIAL CENTRE

डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यापक/PROFESSOR हेमाटोलिम्फॉईंड विभाग (वयस्क)/HEMAIOLYMPHOLD DIVISION (ADULT) मेडिकल ऑन्कोलॉनी विभाग/DEPT. OF MEDICAL ONCOLOGY

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	earmarked for environmental protection	
	measures shall be kept in separate account	
	and not to be diverted for any other purpose.	
	Year wise progress of implementation of	
	action plan shall be reported to the	
- 3	Integrated Regional Office, MoEF&CC,	
	Govt. of India, Bhubaneswar as well as	
	SEIAA, Odisha along with the Six Monthly	
	Compliance Report.	
Half-yearly Co	ompliance Report:	
i.	It shall be mandatory for the project	Agreed and Noted.
	management to submit six (06) monthly	Monitoring has been done during the October
	compliance reports on post environmental	month. Lab data is enclosed as Annexure-
	monitoring in respect of the stipulated terms	VIII.
	and conditions in this Environmental	8
	Clearance to the State Environment Impact	
	Assessment Authority (SEIAA), Odisha,	
	SPCB & Integrated Regional Office of the	
	Ministry of Environment & Forest, Odisha,	
	the respective Zonal Office of CPCB and the	
	SPCB in soft copies on 1 June and 1	
	December of each calendar year. No hard	
	copy of six (06) monthly compliance reports	
	shall be accepted by SEIAA. The proponent	
	shall upload the compliance report including	
	results of monitored data, as applicable in	
	the PARIVESH website of the Ministry for	
	monitoring of EC Conditions. The criteria	\sim
	pollutant levels namely; SPM, RSPM, SO2,	डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यापक/PROFESSOR
	NOx (ambient levels as well as stack	डॉ. लिंगराज नायक/DR. LINGARAJ NAY
•	emissions) or critical sectoral parameters,	- AC MILTER (AUT (AUTA)/HEMAIULIMPHUNU DIVISION OF
	FMORIAL CENTRE	्रमाशालम्बाइडायसम् भेडिनल ओं कोलॉनी विभाग/DEPT OF MEDICAL ONCOLOGY

TATA MEMORIAL CENTRE

रीएमसी, मुंबई/ TMC, MUMBAI.

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Locate	ed at Khordha, Odisha	DECEMBER 2024
	indicated for the project shall be monitored	
	and displayed at a convenient location near	
	the main gate of the company in the public	
	domain.	
ii.		
11.	Officials from the Integrated Regional	Agreed and Noted.
	Office of MoEF&CC, Bhubaneswar/SPCB,	
	Odisha who would be monitoring the	
	implementation of environmental safeguards	
	should be given full cooperation, facilities	
	and documents/data by the project	
	proponents during their inspection.	
iii.	The environmental statement for each	Agreed and Noted.
	financial year ending 31 March in Form-V	
	as is mandated to be submitted by the	
	project proponent to the concerned State	
	Pollution. Control Board as prescribed under	
	the Environment (Protection) Rules, 1986,	
	as amended subsequently, shall also be put	
	on the website of the company along with	6
	the status of compliance of EC conditions	
	and shall also be sent to the respective	
	Integrated Regional Offices of MoEF&CC,	
	Govt. of India by E-mail.	
	ANEOUS ENVIRONMENTAL CONDITIONS	WHICH NEED TO BE COMPLIED WIT
Y THE PE ther Cond	ROJECT PROPONENT:	
i.	The project proponent shall inform the	Agreed and Noted.
	Integrated Regional Office, MoEF&CC,	5
	Govt. of India, Bhubaneswar as well as	
	SEIAA, Odisha the date of financial closure	
	and final approval of the project by the	
ТАТА	MEMORIAL CENTRE	
TATA	MEMORIAL CENTRE	टॉ. लिंगराज नायक/DR. LINGARAJ NAVAR
		हेमाटोलिम्फॉइंड विभाग (वयस्क)/HEMATOLYMPHOLO DIVISION (ADU.T)
		मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL CHOOLOGY जीगममी संबद्ध/ TMC: MUMBAL

टीएमसो, मुंबई/ TMC, MUMSAI.

Landati	ed at Khordha, Odisha	DECEMBER 2024
	concerned authorities, commencing the land development work and start of operation by the project.	
ii.	No further expansion/revision or modifications in the project shall be carried out without prior approval of SEIAA, Odisha. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, Odisha.	Agreed and Noted.
iii.	The SEIAA, Odisha reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment	Agreed and Noted.

clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the

suggested safeguard measures in a time bound and satisfactory manner. The

company in a time bound manner shall

implement these conditions.

Cuyor

डॉ. लिंगराज नायक/DR. LINGARAJ NAYAK प्राध्यापक/PROFESSOR हेमाटोलिम्फॉईड विभाग (वयस्क)/HEMATOLYMPHOLO DIVISION (ADULT) मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY MUMBAL टाएमसा, नुषर

TATA MEMORIAL CENTRE

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ANNEXURES

List of Annexures

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Annexure-II	Site Plan
Annexure-III	Structural Stability
Annexure-IV	BDA Approval
Annexure-V	Fire Layout
Annexure-VI	EMP Measures
Annexure-VII	CGWA Approval
Annexure-VIII	Lab Data
Annexure-IX	Wate Treatment
Annexure-X	Energy Conservation
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Annexure-XII	Stack Calculation
Annexure-XIII	Landscape Detail
Annexure-XIV	EMC



MINUTES OF THE MEETING HELD ON 09.01.2024 AT 3.30 PM UNDER THE CHAIRMANSHIP OF CHIEF SECRETARY, ODISHA FOR EXPEDITING THE WORKS OF DIFFERENT DEPARTMENTS IN CONNECTION WITH ESTABLISHMENT OF HOMI BHABHA CANCER HOSPITAL & RESEARCH CENTRE AT JATNI, KHORDHA.

A meeting was held on 09.01.2024 at 3.30 P.M. under the Chairmanship of Chief Secretary, Odisha in his Conference Hall to discuss on the issues of different Departments of Government in expediting the works in connection with establishment of Homi Bhabha Cancer Hospital & Research Centre (HBCH & RC) at Jatni, Khordha.

The list of participants who attended the meeting is attached as Annexure- A. The officials of TMC, Mumbai attended the meeting on virtual mode.

Initiating the discussion, the Chairman welcomed all the participants and requested the TMC officials for making a presentation on the progress of works so far made for establishment of Homi Bhabha Cancer Hospital & Research Centre (HBCH & RC), Jatni, Khordha.

In response, Prof. Lingaraj Naik, Medical Oncology, TMH made a detail power point presentation on the matters of provision of funds, allotment of different kinds of land required, technical assistance from the Government Authorities and the requirement of some statuary approvals for timely completion of the project which is targeted to be commissioned by February 2026.

The Commissioner-cum-Secretary to Government, Health & FW Department made another presentation covering different items of work relating to different Departments in connection with the establishment of the Hospital. Officials representing the concerned Departments intimated the house about the actions taken by so far.

SI. No	Item	Action points	Time line	Action lies with whom
1.	Allotment of land and Shifting of Crematorium	 An extent of 48.842 acres of Govt. land as well as 4.94 acres of smashan land has already been sanctioned in favour of National Institute of Science Education and Research (NISER), Bhubaneswar by R & DM Department with exemption of all charges The NISER authority will take steps to get it recorded in their favour by observing due 	for obtaining approval from BDA.	R & DM Deptt & Collector, Khordha; NISER/ Health & FW Deptt.

After detailed discussion on the works undertaken and the future actions to be taken up in a time bound manner the following decisions were taken:

		3.	formalities. Action will be taken by NISER authority to obtain the BDA approval for commencement of the construction works. The Collector, Khordha has identified an alternate land for crematorium and the work for construction of new crematorium has already been started. Existing crematorium land will be handed over to NISER after completion of construction of new crematorium at the new land identified for the purpose. Health & FW Deptt. will make budgetary provisions of Rs 2.50 (approx.) crore for direct purchase of Ac. 0.725 of private land coming within the project area of TMC in village Padanpur on receipt of requisition.	May 2024 for handing over of the crematorium land to NISER.	
2.	Power Supply	1. 2. 3.	The Chief Secretary requested the Deputy Director, TMC, Mumbai to make a realistic assessment of required load of power for the proposed cancer hospital as well as its ancillary buildings for its smooth functioning and to file requisition before the Energy Department of State Government for taking necessary steps regarding supply of power. Necessary administrative as well as statuary clearance are to be obtained by the NISER/ TMC authority. For supply of required megawatt of power from	January, 2024 for filing requisition.	Energy Deptt / NISER, Bhubaneswar/ TMC, Mumbai

3.			the nearest grid i.e. Arugul, the Energy Department of the State Government is to ensure that there should not be any shortage or compromise on quality of power supply to the hospital.		
5.	Water supply & storm water drainage	1.	TMC will intimate total requirement of water, after which the Government in H & UD Department will take steps for arranging signing of contract between the agency operating the water supply system and the TMC for providing the required quantity of water at the notified tariff. The H & UD Department was advised to make the campus zero discharge with appropriate rainwater harvesting structures & in situ waste water treatment systems.	As per the progress of hospital construction activity.	H & UD Deptt. /TMC, Mumbai
4.	Transport facility	1.	Mo Bus - direct bus service will be provided along with construction of top class bus stops on both sides on the way to Hospital. Collector, Khordha to provide suitable land for construction of bus stops.	progress of hospital construction activity	MD, CRUT. / Collector, Khordha
5.	Road connectivity	2.	The Principal Secretary to Govt., Works Department apprised that in order to cater to the heavy flow of traffic, the existing road is to be widened on either side for which some Govt land need to be alienated and Private land to be acquired. The Chairman advised	February, 2024	Works Department/ Revenue & D.M. Deptt., Health & FW Dept. / Collector, Khordha

		3.	that the Works Department, Govt. of Odisha will make the land assessment in consultation with the Collector, Khordha and will take steps for acquisition and transfer/handing over of required land (Govt & private) in favour of Works Department so that work can be executed without any hindrance. The requisition for required fund for the purpose of direct purchase of road side private land is to be filed before Collector, Khordha by Works Department and the H&FW Department will accordingly make budgetary provisions in consultation with Finance Department.		
6.	Dedicated Fire sub- station	1. 2. 3.	The requirement of a dedicated Fire Sub- station was earlier projected. During the course of discussion, the DG, Fire Services intimated that Jatni Fire Station is 4.6 Kms from the complex. So, it is better to upgrade the existing Fire Station. The land available in the Jatni Fire Station is not adequate to carry out up-gradation. The DG, Fire Services, stated that the Collector, Khordha has already identified one acre of land adjacent to NISER campus with the approval of BDA. This land will be used to locate additional staff and equipment by way of upgradation of Jatni Fire Station. The DG, Fire & Emergency Services will	Up gradation work is to be done as per the progress of hospital construction activity	DG, Fire Services/ Works Deptt. / Collector, Khordha / TMC, Mumbai

	4	 accordingly submit requisition to the Collector, Khordha for allotment of above stated land to the Fire Department. TMC is to send their Architects for consultation with the officers of the Fire Department so that necessary Fire Safety measures will be introduced in the design stage, for facilitating issue of Fire Safety Certificate. The Architects will have discussion with officials of Works, Fire and BDA for greater synergy and better coordination. Fire Department to make an assessment of the requirements and do the needful. 		
of	AAHAR endra	 It was decided that the proposed AAHAR Kendra inside the Hospital premises is intended for providing affordable meal to the patients & attendants. Hence, physical space in the Hospital campus will be provided by the TMC. Health & FW Deptt. will make budgetary provision for construction of the AAHAR Kendra through Works Department. After the structure is ready H & UD Deptt. will operationalize the AAHAR Kendra. 		Works Deptt. / H & UD Deptt. / Health & FW Deptt. / TMC. Mumbai
	Setting up of Dharmashala		progress of hospital construction activity	Health & FW Deptt. / Works Deptt./ TMC, Mumbai

			This Construction work is to be undertaken by Works Department in consultation with TMC having at least 200 beds for occupants. It has been decided in the meeting that this building will be multi- storied and the basement will be used for multi-level Car / bike parking. The building design is to be prepared accordingly for having provision of adequate parking space so that there will not be any criss-crossing of the vehicles inside the hospital campus.		
9.	Signing of MoU	1.	Health & F.W. Department has already signed the MoU with the Tata Memorial Centre, Mumbai for establishment of Homi Bhabha Cancer Hospital in the Campus of NISER, Bhubaneswar on 07.09.2022.	NA	NA
10	Cancer Registry	1.	The Population Based Cancer Registry (PBCR) has already been started in Khordha district since October 2022 and expanded to Mayurbhanj district since October 2023.	NA	TMC, Mumbai
1	Establishment of Cyclotron	2.	Director, BARC had requested for financial assistance amounting to Rs 300 crores for establishment of a Medical Cyclotron unit in NISER Campus. Government of Odisha has agreed for funding of 50 % of the project cost or Rs 150 crore, whichever is less, out of which Health & F.W. Department has made Budgetary provision of	hospital construction activity	Director, BARC / TMC, Mumbai / Health & F.W. Deptt.

12		 Rs 75 crore in Budget Estimate 2023-24. 3. Department of Atomic Energy, Gol to expedite filing of requisition for transfer of funds with Bank details. 4. The Chairman advised the TMC authorities to file the requisition within a week for transfer of funds amounting to Rs. 75 crore lest it may lapse and surrendered to F.D. 		
12.	Any other matters	 Govt. of Odisha have agreed in-principle to support for funding of Rs 150 crore for construction of a state of the art Paediatric Cancer facility at the cancer hospital. The TMC officials were requested to intimate the requirement of fund (phase wise) so as to make Budgetary provision by Health & FW Dept. for the FY 2024-25. Adequate precautions are to be taken on fire safety measures during construction of building, be it at the Hospital, the Dharmashala, Aahar Kendra, the Cyclotron unit etc. 	Submission of requisition of funds by end of January 2024	TMC, Mumbai / H & FW Deptt. / D.G. Fire Services, BBSR

Respective State Govt. Departments and the TMC Authorities are to take proactive measures for execution of their work in a time bound manner so that functionalization of the Hospital will be made in time.

The meeting ended with vote of thanks to the Chair and all Participants.

Chief Secretary,

Odisha

MEETING REGARDING ASSISTANCE TO TMC, MUMBAI IN EXPEDITING THE ESTABLISHMENT OF HOMI BHABA CANCER HOSPITAL & RESEARCH CENTRE AT-JATNI, KHORDHA

03.30 P.M

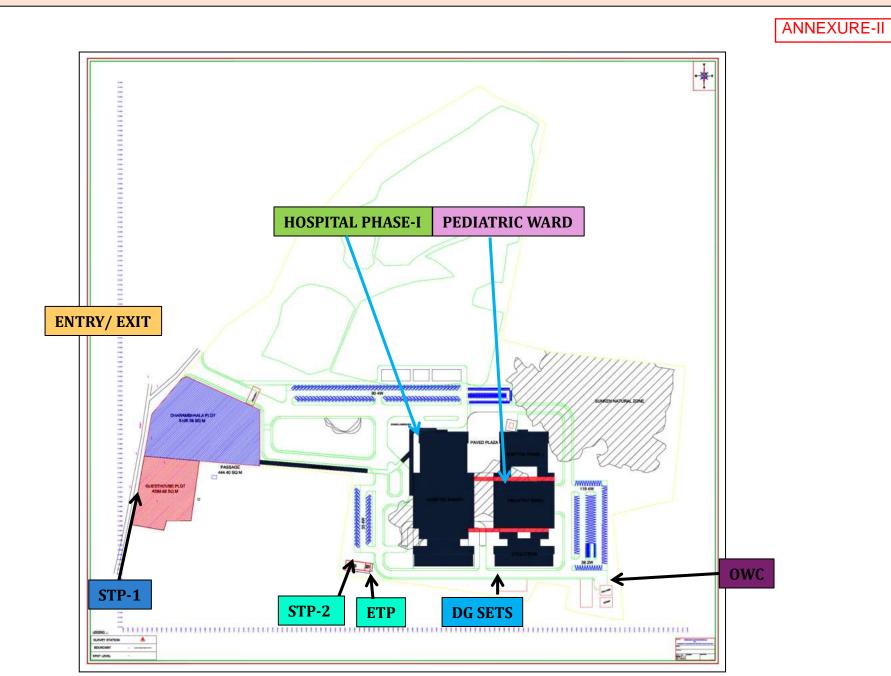
Date :- 09th January, 2024 Venue: Conference Hall of Chief Secretary Loka Seva Bhavan

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Sl. No.	Name & Designation	Mobile No. Signature	
1.	Chief Secretary, Odisha	(Sterne)	
2.	Additional Chief Secretary to Government Revenue & DM Department	· · · · · · · · · · · · · · · · · · ·	
3.	Additional Chief Secretary to Government H & UD Department	6.40	2
4.	Director General, Fire Services, Odisha	9437214582 Mm	7.7
5.	Principal Secretary to Government Works Department	- Le	
6.	Principal Secretary to Government Energy Department	9437055000.	
7.	Managing Director, CRUT, Bhubaneswar General Mechayer (CRUT)	9437166372 h	
8.	Collector & DM, Khordha	9439033567	,
9.	Director, TMC	AH-end in virtual inthe	
10.	Special Secretary (ME-II) to Government, Health & FW Department	h	
11.	ARTINO SINGH CEO- TRLODL	9223307613 Jj	2
12.	Secy, HFW Deptl. S.PANDIT	K	
13.	Pauf. A. SZINIVASAN, NISER	9668324-153 Am	

Attendance Sheet of Participants

SITE PLAN



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CIPI

FORM - VII

CERTIFICATE FOR STRUCTURAL STABILITY

With respect to the building work of erection, re-erection or for making alteration in the building on Plot No. 149, 147 2400, 152/24 Village/ Mouza PADAN PUR

I certify that the Structural plans and details of the building submitted for approval satisfy the structural safety requirements for all situations including natural disasters like cyclone & earth quake etc. as applicable, as stipulated under Part-6 (Structural Design) of the National building Code of Indian, 2005 and other relevant codes; and the information given therein is actually correct to the best of my knowledge. I undertake responsibility with regard to supervision of the work at each stage of construction, (after laying of foundation & after casting of each floor) and submit the report to B.D.A regularly to effect that the building is going constructed conforming to the approved plan and as per the structural plan prepared by me, I will be responsible and liable for action by B.D.A./ Govt. if the plan/ design contain representation or fraudulent information and the construction is made in deviation of approved plan or if there is any structural failure due to wrong/ unsafe structural design, use of low quality material and/ or poor workmanship endangering the in-mates Topublic.

Signature of owner 2113124 STRUCTURAL ENGINEER RTP/DTP (ST.ER) 149/2019 Signature of the Registered ज. लिंगराज नायक/DR. LINGARAJ NAYAK Engineer/Structural Engineer प्राध्यापक/PROFESSOR With date हेमाटोलिम्फॉर्डड विभाग (वयस्क)/HEMATOLYMPHOID DIVISION (ADULT) With date and registration No. मेडिकल ऑन्कोलॉजी विभाग/DEPT. OF MEDICAL ONCOLOGY Dr Lingara 55sr as TMC. MUMBAL Name: Address: ROOM NO. 1005 Dr Ernest Borges Row Dribber Buyun Ch'-Paral - 400012 Numbre



Bhubaneswar Development Authority

Form-II (Order for Grant of Permission)

Letter No. BP/BDA/013676, Bhubaneswardevelopmentauthority, Dated: 30/10/2024 Sujog-OBPS APPLICATION NO. BP-BDA-2024-02-03-050240

Permission Under Sub-Section (3) of the Section-16 of the Orissa Development Authorities Act'1982(Orissa Act,1982) is hereby granted in favour of Land Owner

Plot Number	Plot Area	Khata No	Kisam	Village	Land Owner Name	GPA Holder Name
749,747/240 0,752/2404,9 22/2401,923/ 2402,927/23 99,747/2403, 927(P),929(P),747(P),73 6(P),746(P), 735(P)		722(AJA), 722	PATITA	Padanpur	TATA MEMORIAL CENTRE	NA

For New Construction of **[B+G+5, G, G, G, G, G, G]** Public-semi, Govt-Semi Govt. Hospital over in Mouza- Padanpur in the Development Plan area of **Bhubaneswardevelopmentauthority** with the following parameters and conditions;

Parameters:

- Total plot area: 40.155 Acre (162476.94 SQM)

- Net plot area: 162476.94 SQM
- Abutting road width: 12.14 Mtr

Block-No.2 (B+G+5)	Covered area approved (Sqm.)	Proposed use	No. of Dwelling Units
Basement level First	1426.45	Govt-Semi Govt. Hospital	0
Ground floor	7563.21	Govt-Semi Govt. Hospital	0



Total BUA Area Block-No.8 (G)	152.00 Covered area approved (Sqm.)	Proposed use	0 No. of Dwelling Units
		Hospital	
Block-No.7 (G) Ground floor	approved (Sqm.) 152.00	Proposed use Govt-Semi Govt.	Units 0
Total BUA Area	594.60 Covered area	Deserved	0 No. of Dwelling
Ground floor	594.60	Govt-Semi Govt. Hospital	0
Block-No.6 (G)	Covered area approved (Sqm.)	Proposed use	No. of Dwelling Units
Total BUA Area	1150.00		0
Ground floor	1150.00	Govt-Semi Govt. Hospital	0
Block-No.5 (G)	Covered area approved (Sqm.)	Proposed use	No. of Dwelling Units
Total BUA Area	358.40		0
Ground floor	358.40	Govt-Semi Govt. Hospital	0
Block-No.4 (G)	Covered area approved (Sqm.)	Proposed use	No. of Dwelling Units
Total BUA Area	506.03		0
Ground floor	506.03	Govt-Semi Govt. Hospital	0
Block-No.3 (G)	Covered area approved (Sqm.)	Proposed use	No. of Dwelling Units
Total BUA Area	29923.64	Troopital	0
Fifth Floor	2920.95	Govt-Semi Govt. Hospital	0
Fourth Floor	3479.45	Govt-Semi Govt. Hospital	0
Third Floor	4057.09	Govt-Semi Govt. Hospital	0
Second Floor	5230.07	Govt-Semi Govt. Hospital	0
First Floor	5246.42	Govt-Semi Govt. Hospital	0

No.of staircases	B2-6, B3-1, B4-1, B5-0, B6-0, B7-0, B8-0		B2-6, B3-1, B4-1, B5-0, B6-0, B7-0, B8-0
No.of Lifts	NA		NA
E-vehicle charging station	0		0
Visitor parking(in Sqm.)	0		0.00
Plantation(no of tree per 80Sqm.)	NA		2038
Grand Total FAR Area -	30232.36 S	qm.	
Grand Total BUA - 3272	3.25 Sqm.		
F.A.R	4.0 (Max. Permi 2.0 (Base FAR	,	ACHIEVED- 0.19(0 Purchasable FAR)
Height (mtr.)		B2-28.2, B3-4.2, B4-4.2, B5-4.2, B6-3.5, B7-5.64, B8-3.2	
Parking			+ Stilt-0 + Ground (Open 53

- Set backs approved to be provided

Block No.	Item	Provided (in Mtr)
	Front Set back	62.52
0	Rear Set back	150.88
2	Left side	102.51
	Right side	18.81
	Front Set back	246.61
2	Rear Set back	6.14
3	Left side	6.91
	Right side	151.44
	Front Set back	230.72
4	Rear Set back	6.07
1	Left side	28.85
	Right side	10.63
	Front Set back	382.91
-	Rear Set back	76.92
5	Left side	45.26
	Right side	84.75
	Front Set back	182.76
c	Rear Set back	232.91
6	Left side	270.46
	Right side	215.23
	Front Set back	69.79
-	Rear Set back	390.5
7	Left side	408.13
	Bighte side	63.39
8	Entremy sitmed Schack	46.97
	Name: Gouri Strikar Bhuyan Date: 30-Oct-2021 / 6:21:23 Location: Odisha	

Location: Odisha

Rear Set back	273.46
Left side	414.59
Right side	80.68

• In case there is any discrepancy found with numbers/figures provided in CAD drawing and Plan PDF, then the numbers/figures provided in the CAD drawing will prevail and will be considered valid.

- 1. The building shall be used exclusively for **Govt-Semi Govt. Hospital** purpose and the use shall not be changed to any other use without prior approval of this Authority.
- 2. The development shall be undertaken strictly according to plans enclosed with necessary permission endorsement.
- 3. Total Parking space measuring **9843.53 Sqm.** as shown in the approved plan shall be left for parking of vehicles and no part of it will be used for any other purpose.
- 4. The land over which construction is proposed is accessible by an approved means of access of **12.14 Mtr.** in width.
- 5. The land in question must be in lawful ownership and peaceful possession of the applicant.
- 6. The applicant shall free gift **0 Sqm.** wide strip of land to Bhubaneswar Development Authority for further widening of the road to the standard width as per **CDP-2010**, **BDA**.
- 7. The permission granted under these regulations shall remain valid upto **three years** from the date of issue. However the permission shall have to be revalidated before the expiry of the above period on payment of such fee as may be prescribed under rules and such revalidation shall be valid for one year.

8.

- (A) Approval of plans and acceptance of any statement or document pertaining to such plan shall not exempt the owner or person or persons under whose supervision the building is constructed from their responsibilities imposed under ODA (Planning & Building Standards) Rules 2020, or under any other law for the time being in force.
- (B) Approval of plan would mean granting of permission to construct under these regulations in force only and shall not mean among other things-
 - 1. The title over the land or building
 - 2. Easement rights



- 4. Structural stability
- 5. Workmanship and soundness of materials used in the construction of the buildings
- 6. Quality of building services and amenities in the construction of the building,
- 7. The site/area liable to flooding as a result of not taking proper drainage arrangement as per the natural lay of the land, etc and
- 8. Other requirements or licenses or clearances required to be obtained for the site /premises or activity under various other laws.
- 9. In case of any dispute arising out of land record or in respect of right, title, interest after this permission is granted, the permission so granted shall be treated as automatically cancelled during the period of dispute.
- 10. Neither granting of the permit nor the approval of the drawing and specifications, nor inspections made by the Authority during erection of the building shall in any way relieve the owner of such building from full responsibility for carrying out the work in accordance with the requirements of NBC 2005 and these regulations.

11. The owner /applicant shall:

- A. Permit the Authority to enter the building or premises, for which the permission has been granted at any reasonable time for the purpose of enforcing the regulations;
- B. Obtain, wherever applicable, from the competent Authority permissions/clearance required in connection with the proposed work;
- C. Give written notice to the Authority before commencement of work on building site in Form-V,periodic progress report in Form-VIII, notice of completion in Form-VI and notice in case of termination of services of Technical persons engaged by him.
- D. Obtain an Occupancy Certificate from the Authority prior to occupation of building in full or part.
- 12. The applicant shall abide by the provisions of Rule no.15 of ODA (P&BS) Rules, 2020 with regard to third party verification at plinth level, ground level & roof level. Any deviation to the above shall attract penalty as per the provision of the same.

13.

- A. In case the full plot or part thereof on which permission is accorded is agricultural kisam, the same may be converted to non-agricultural kisam under section- 8 of OLR Act before commencement of construction.
- B. The owner/applicant shall get the structural plan and design vetted by the institutions identified by the Authority for the institutions identified by the Authority for the institutions in the structural plan and market by the institutions in the structural plan and the structural plan and

construction.

- 14. Wherever tests of any material are made to ensure conformity of the requirements of the regulations in force, records of the test data shall be kept available for inspection during the construction of building and for such period thereafter as required by the Authority.
- 15. The persons to whom a permit is issued during construction shall keep pasted in a conspicuous place on the property in respect of which the permit was issued;

A. A copy of the building permit; and

- B. A copy of approved drawings and specifications.
- 16. If the Authority finds at any stage that the construction is not being carried on according to the sanctioned plan or is in violations of any of the provisions of these regulations, it shall notify the owner and no further construction shall beallowed until necessary corrections in the plan are made and the corrected plan is approved. The applicant during the course of construction and till issue of occupancy certificate shall place a display board on his site with details and declaration.
- 17. This permission is accorded on deposit /submission of the following:

Details of Fees and Charges	Amount in Rupees	Payment Status
A. (i) Fee for building operation	149619.0	Paid
A. (ii) Development Fees	812385.0	Paid
B. Sanction fees	981698.0	Paid
TOTAL FEES PAID	1957700.00	

18. Other conditions to be complied by the applicant are as per the following;

I.Adhere to provisions of ODA (Planning & Building Standards) Rules, 2020 strictly.II.Storm water from the premises or rooftop shall be conveyed and discharged to the rainwater recharging pits as per Rules-47 of ODA (Planning & Building Standards) Rules, 2020.III.No stormwater/water shall be discharged to the public road/public premises and other adjoining plots.

IV.Rooftop Solar Energy Installation shall be provided as per ODA (Planning & Building Standards) Rules, 2020

V.The space which is meant for parking shall not be changed to any other use and shall not be partitioned/closed in any manner.

VI.Not more than 1/3rd of the Signature Valid arking shall be reserved for staff or own use and the balance parking shall be earm arked for staff or own use and the sub-

rule (12) of Rule No. 37 of ODA (P & BS) Rules, 2020.

VII.Total Parking space measuring 9843.53 Sqm. (Open Parking) as shown in the approved plan shall be left for parking of vehicles and no part of it will be used for any other purpose. VIII.Barrier-free access for physically challenged, differently-abled persons, elderly and children shall be provided as per Rule 46 of ODA (P&BS) Rules, 2020.

IX.At least 50% of the open space shall be pervious and plantation @ one tree per 80 Sq.mtr. of the plot area shall be made by the applicant as per provision under Rule 30 of ODA (P&BS) Rules, 2020.

X.Rainwater harvesting structures shall be provided within the premises for collection and use of rooftop rainwater.

XI.Groundwater recharging pits shall be provided @ 6 cubic meters for every 100 square meters of roof area.

XII.Public Washroom Complex with outdoor signage shall be provided as per Rule 50 of ODA (P&BS) Rules, 2020 and the same shall have direct access from outside the plot i.e. direct access from the public road, so as to permit usage by the general public.

XIII.ICT landing point as per Rule 57 of ODA (P&BS) Rules, 2020 shall be provided.

XIV.STP and other utilities, if provided within the minimum setback area shall not be allowed above ground level and shall only be constructed below ground level; and the same shall be appropriately covered for movement of vehicle/people above it.

XV.Guard room, electric cabin, sub-station, area for generator set, ATM, etc, if provided shall not be allowed within minimum setback area

XVI. The construction of the building (s) shall be in strict adherence of the structural plan and design vetted by the Department of Civil Engineering, Indian Institute of Technology, Guwahati vide their letter no. IITG/CE/HS/KT/Jatni/Hospital/01 dated 7th September 2024.

XVII.The Owner / Applicant / Architect / Structural Engineer are fully and jointly responsible for any structural failure of the building due to any structural/construction defects, Authority will no way be held responsible for the same in whatsoever manner.

XVIII.The Authority shall in no way be held responsible for any structural failure and damage due to earthquake/cyclone/ any other natural disaster.

XIX.The applicant shall ensure execution of the External Infrastructure Development Plan through different agencies as per the MoU signed with the State Government of Odisha. Occupancy Certificate shall be issued only after obtaining the NOC from the Engineer Member, BDA regarding the development of External Infrastructure in accordance with the SOP in this regard.

XX.The owner/applicant/Technical Person shall strictly adhere to the terms and conditions imposed in the NOC / Clearances given by the Chief Fire Officer, Fire Prevention Wing vide their letter no. RECOMM1204130062024002091 dated 17.05.2024 / State Environment Impact Assessment Authority (SEIAA) vide their letter no. 10165/IND/IICTE/7260 dated 05/07/2024 etc., wherever applicable.

XXI. The electrical installation within the building and building premises shall be undertaken as per the Electrical Layout Plan prepared by an Electrical Engineer registered with DTP, Odisha and the Occupancy Certificate shall not be issued without submission of a certificate from the registered electrical engineer that the electrical installation within the building and building premises are in complete adherence to the specification, standards and code of practice recommended in the National Building Code of India.

XXII.All the stipulated conditions of NOC given by any public agency required for approval shall be adhered to strictly.

XXIII.The applicant is required by the development of external/internal infrastructure

facilities such as power supply, water supply & stormwater drainage etc. in close coordination with various line departments considering the decision of the Minutes of the Meeting held on 09.01.2024 under the chairmanship of Chief Secretary, Odisha and the MoU signed between TATA Memorial Centre (TMC) and Govt. of Odisha.

XXIV.The applicant shall ensure the lifting of SWM from the campus and the treatment & disposal of bio-medical waste through third-party agency as per the terms & conditions of the State Pollution Control Board, Odisha.

XXV.The applicant shall submit Fire Safety Certificate before issue of the Occupancy Certificate.

XXVI.The applicant during the course of construction and till the issue of the occupancy certificate shall keep pasted in a conspicuous place a copy of the building permit and copy of the approved drawing and shall place a display board on site with details and declaration as given at Annexure-I.

NOCs/ Clearances submitted:

Fire, NMA and AAI

Name	Status
NOC from Airport Authority of India	NA
NOC from Fire Department	Received
NOC from National Monument Authority	NA

Other NOCs

The Permit letter is being granted provisionally on the condition that the following list of No Objection Certificates (NOCs) are to be submitted mandatorily before the commencement of any construction work and that the applicant will commit to fulfilling all the prerequisites for the construction project.

1. NA(Not Applicable)

Date: 30/10/2024

BY ORDER OF Gouri Sankar Bhuyan Authorized Officer Bhubaneswar Development Authority





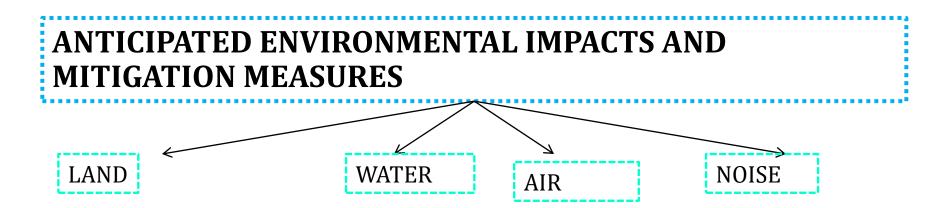
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SPECIAL NOTES

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			30300			DRG NUMBER : JB23-071-MP1-1100-R00	AF S	2
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		RJB-CPL.				SHEET SIZE - AU REVISION: SCALE: 1:750	<u>ن</u>	א

ANNEXURE-V





1

WATER ENVIRONMENT MANAGEMENT

Anticipated Impact	Mitigation Measures
 <i>Construction Phase:</i> 1. Use of large quantity of water in construction activities. 2. Wastewater generation 	 Water from private tankers will be used for construction activities. Curing water will be sprayed on concrete structures, free flow of water will not be done. Concrete structures will be covered with gunny bags and water would be sprayed on them. Mobile type toilets will be provided for laborers
 <u>Operation Phase</u>: 1. Fresh water use for domestic activities. 1. Wastewater generation 	 STP treated effluent will be reused for flushing, horticulture & Surplus treated water will be supply to watering of external road side plantation, provided to STP treated water supplying agency, etc. Rainwater Harvesting system & storage proposed to augment ground water resources.

AIR ENVIRONMENT MANAGEMENT

Anticipated Impact	Mitigation Measures
Construction Phase:11. Dustemissionfrom transportation of construction material.2.2. Gaseousemissionsfrom construction machinery.3.3. Dust from construction activities.4.5.5.6.6.	 Site will be enclosed with 5 m high barricade around the project boundary which will act as a wind breaker. Water sprinkling will be carried out for dust suppression. Roads leading to project site are paved/blacktopped. Transportation of construction material and excavated earth will be done through covered trucks. Low sulphur diesel will be used for transportation vehicles and construction machinery. Vehicles having valid pollution under control (PUC) certificate will be allowed to enter the project site. Grinding and cutting of building material will not be done in open area.

Anticipated Impact	Mitigation Measures					
<i>Operation Phase:</i> 1. DG sets operation	1. Low sulphur diesel (LSD) will be used for DG sets.					
2. Vehicular movement	2. Stack height for DG sets will be provided as per CPCB norms.					
	3. Tree plantation along the periphery and road side.					

NOISE ENVIRONMENT MANAGEMENT

Anticipated Impact	Mitigation Measures				
Construction Phase:1. Noisefromconstruction	1. Regular maintenance of construction machinery				
1. Noise from construction					
machinery and vehicular movement.	2. The site will be enclosed with 5 m high barricade along the periphery.				
	3. The DG sets will be acoustically				
2. Noise from DG sets operation.	enclosed.				
Operation Phase:					
1. Vehicular movement	1. Tree plantation along the periphery				
	and road side.				
2. DG sets operation	2. DG sets will be acoustically				
	enclosed.				





भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Tata Steel Utilities An	Tata Steel Utilities And Infrastructure Services Limited					
Project Address:	Jatni, Padanpur						
Village:	Padanpur	Block:	Jatni				
District:	Khordha	State:	Odisha				
Pin Code:			N.				
Communication Address:	Tata Steel Housing C Office, Jajpur, Jajapu		nganagar, Under Building-d, Tata Uisl				
Address of CGWB Regional Office :		Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneshwar, Khordha, Odisha - 751030					

N/2

1.	NOC No.:		CGW	/A/NOC	C/INF/OF	RIG/20	24/19	9943	2.	Dat	e of Issu	ence 23	8/02/202	24	
3.	. Application No.:		No.: 21-4/		-4/5467/OR/INF/2023				4.		egory: VRE 2023		afe		
5.	Project Sta	tus:	New	Project 6				6.	NO	С Туре:	Ne	ew			
7.	Valid from	:	23/02	2/2024		Ĉ	1-	1	8.	Val	id up to:	22	2/02/202	29	
9.	Ground Wa	ater Abstr	action	n Permi	tted:	0	2								
	Fresh	Water			Saline	Water	-		De	wate	ring		٦	Fotal	
	m³/day	m³/ye	ar	m³	/day	m³	/year	n '	n³/day		m³/year	m³	/day	m³.	/year
	60.00	21900	.00												
10.	Details of g	round wa	ater at	ostracti	on /Dew	atering	g stru	ctures							
			Tota	al Exis	ting No	.:0					Т	otal Prop	osed N	lo.:3	
			0	DW	DCB	BW	ΤW	MP	MPu	D٧	V DCB	BW	TW	MP	MPu
	Abstraction	Structure	e *	0	0	0	0	0	0	0	0	3	0	0	0
*DW	- Dug Well; DC	B-Dug-cur	n-Bore	Well; BV	/-Bore We	ll; TW-T	ube W	ell; MP-Min	e Pit;MPu	u-Mine	e Pumps				
11.	Ground Wa	ater Abstr	action	n/Resto	ration C	harges	s paid	l (Rs.):				2190	00.00		
12.	Environme	nt Compe	ensatio	on (if a	pplicable	e) paid	(Rs.)					0.	00		
13.	Number of constructed							No. of P	iezome	ters		Monitorin	ng Mech	nanism	
											Manual	DWLR**	DWLF	R With T	elemetry
	**DWLR - Dig	ital Water L	evel Re	ecorder					1		0	1		0	

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate

2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guideli

4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine

6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab

7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.

8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.

Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act. 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.

quirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises

23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting

28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be. 29)

 a) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
 a) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation Ministry of Jal Shakti, Govt. of India

		Ministry of Jal S	Shakti, Govt. of India	1 And and a second s
			eceipt	
	(As per the	MoJS guidelines dated 24.09.2020 vide SO No. https://c;	3289(E) and amendments dated 29.0 gwa-noc.gov.in	9.2023 vide SO No. 1509(E))
Applic	ation No,:	21-4/5467/OR/INF/2023	Γ	Date of Issuence:23/02/2024
Name	of Firm:	TATA STEEL UTILITIES AND IN	NFRASTRUCTURE SERVI	CES LIMITED
АррТу	/pe Category:	Hospitals	.Q.,	<u>N</u>
Applic	ation Type:	Infrastructure	, KAN	
PAN/C	GSTIN No. of Fir	m/Individual:	AABCJ3604P /	
S N		Description		Amount (Rs.)
1. A _f	plication Proce	essing Fee	0	10000.00
2. Gr	ound Water Al	ostraction charges	SV	
3. Gr	ound Water Re	estoration charges	V	
4. En	vironmental C	ompensation Charges (ECRGW)) (Date From to) Days-	
	nalty for non-Condition to be n	Compliance of NOC conditions		10000.00
6. Ad	justment Charge	es		
7. Re	bate	N/		
B. Ch	arges for correc	tion/modification in the existing issu	ued No Objection Certificate	e
S.1	No. Description	ST.	Rate	
(i)	Change in U	lser ID	Rs. 5000	
(ii)	Change in fi	rm Name	Rs. 5000	
(iii)	Extension of			
(iv)	Issuance of			
(v)	Issuance of Certificate			
(vi)	Any other ite	ems/correction etc.		
Rs	Rupees Forty	One Thousand Nine Hundred On	nly	41900.00

This is an system generated invoice, hence, does not require ink signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

> पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE

Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary CGWA, New Delhi

ENTRAL GROUND WATER ANTHORN

- -

LAB DATA (OCT 2024)

Но	mi Bhabha Canc P	er Hospital & I adanpur, Tehsi		•		are Village-
	Ambient Air Q	uality Data Oc	t-2024	Location	n: AAQ-1 (Pro	oject.Site)
C N-	Data	PM10,µg/m3	PM2.5,µg/m3	$SO_2 \mu g/m3$,	NO _{2,} µg/m3	CO, µg/m3
S.No	Date	IS:5182:Pt-24	IS:5182:Pt-23	IS:5182:Pt-2	IS:5182:Pt-6	IS:5182:Pt-10
1	01.10.2024	75.7	35.1	8.4	13.7	330
2	04.10.2024	69.9	32.7	9.1	18.2	180
3	08.10.2024	78.4	36.9	9.8	12.8	350
4	11.10.2024	67.6	32.3	8.9	16.5	260
5	15.10.2024	79.7	38.9	8.2	12.0	350
6	18.10.2024	77.2	34.0	10.0	13.5	310
7	22.10.2024	67.3	30.7	9.3	12.4	390
8	25.10.2024	72.4	33.5	10.4	13.8	310
	Min	67.3	30.7	8.2	12.0	180
	Max	79.7	38.9	10.4	18.2	390
	Average	73.5	34.3	9.3	14.1	310
	98 Percentile	79.5	38.6	10.3	18.0	384
hou	AQS, For 24 rly monitoring pt CO for One hour)	100	60	80	80	4000

LAB DATA (OCT 2024)

Homi Bhabha Cancer Hospital & Research Centre by M/s Tata Memorial Care Village Padanpur, Tehsil -Jatni, District Khurda, Odisha.

		Grou	und water Quality Oc	t-2024	
S.No	ParameterUnitStandard Limit (IS-10500:2012, RA 2018)				GW1
			Desirable Limit	Permissible Limit	Project site
1	Colour	Hazen	5	15	<5
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	1	5	<1
4	pН	-	6.5-8.5	No Relaxation	7.63
5	Total Dissolved Solids (TDS)	mg/l	500	2000	386
6	Total Hardness (as CaCO3)	mg/l	200	600	221
7	Total Alkalinity (as CaCO3)	mg/l	200	600	182
8	Chlorides (as Cl)	mg/l	250	1000	76
9	Fluoride (as F)	mg/l	1	1.5	0.4
10	Calcium(as Ca2+)	mg/l	75	200	54
11	Magnesium (as Mg2+)	mg/l	30	100	22
12	Sulphate (as SO4)	mg/l	200	400	36
13	Nitrate(as NO3)	mg/l	45	No Relaxation	3.4
14	Iron (as Fe)	mg/l	1	No Relaxation	0.24
15	Aluminum (as Al)	mg/l	0.03	0.2	<0.01
16	Copper (as Cu)	mg/l	0.05	1.5	<0.01
17	Manganese (as Mn)	mg/l	0.1	0.3	<0.01
18	Boron (as B)	mg/l	0.5	1	<0.01
19	Zinc (as Zn)	mg/l	5	15	< 0.01
20	Selenium (as Se)	mg/l	0.01	No Relaxation	<0.01
21	Arsenic (as As)	mg/l	0.01	0.05	<0.01
22	Cadmium (as Cd)	mg/l	0.003	No Relaxation	<0.001
23	Total Chromium (as Cr3+)	mg/l	0.05	No Relaxation	<0.01
24	Cyanide (as CN)	mg/l	0.05	No Relaxation	<0.01
25	Lead (as Pb)	mg/l	0.01	No Relaxation	<0.01
26	Mercury (as Hg)	mg/l	0.001	No Relaxation	<0.001
27	Nickel (as Ni)	mg/l	0.02	No Relaxation	<0.01
28	Phenolic Compounds (as C6H5OH)	mg/l	0.001	0.002	<0.001
29	Anionic Detergent (as MBAS)	mg/l	0.2	1	<0.01

LAB DATA (OCT 2024)

30	Silica (as SiO ₂)	mg/l	,	,	5.4			
31	Phosphate (as PO ₄)	mg/l	,	,	0.9			
32	Specific Conductivity	μS/cm	,	,	585			
Bacte	Bacteriological Parameter							
1	Total Coliform	MPN/100ml	Shall not be detectable	in any 100ml Sample	Not Detected (<2)			
2	<u>E.coli</u>	MPN /100ml	Shall not be detectable	in any 100ml Sample	Absent (<2)			

Homi Bhabha Cancer Hospital & Research Centre by M/s Tata Memorial Care Village Padanpur, Tehsil Jatni, District Khurda, Odisha.								
Noise Quality data Oct-2024								
S.N 0.	PROJECT SITE	ZONE	LIMIT (as pe Guidelines),L		Observed value, Leq,dB(A)			
			DAY*	NIGHT**	DAY*	NIGHT**		
1		Silence	50	40	49.7			
	Project site	zone				38.1		
*	Day time	(6.00AM	(6.00AM TO 10.00PM)					
**	Night time	(10.00PM	TO 6.00AM)					

	Soil Quality Data	(Oct-2024)	
			SQ1
S.No	Parameter	Unit	Project Site
1	Texture	-	Sandy Clay Loam
2	Particle Size Distribution		
	Sand	%	52.6
	Silt	%	18.8
	Clay	%	28.6
3	pH (1:2 Suspension)	-	7.49
4	Electrical Conductivity (1:2 Suspension)	μS/cm	292
5	Moisture Content	%	10.7
6	Cation Exchange Capacity	meq/100gm	13.9
7	Available Potassium (as K)	mg/kg	49
8	Exchangeable Sodium (as Na)	mg/kg	115
9	Exchangeable Calcium (as Ca)	mg/kg	2088
10	Exchangeable Magnesium (as Mg)	mg/kg	344
11	Sodium Absorption Ratio	-	0.61
12	Organic Matter	%	0.89
13	Total Nitrogen (as N)	mg/kg	40
14	Nitrate (as NO ₃)	mg/kg	9.4
15	Total Phosphorus (as PO ₄)	mg/kg	6.7
16	Iron (as Fe)	mg/kg	4.2
17	Zinc (as Zn)	mg/kg	1.3
18	Copper (as Cu)	mg/kg	1.4
19	Boron (as B)	mg/kg	1.6
20	Manganese (as Mn)	mg/kg	12.9
21	Water Holding Capacity	%	33.6
22	Permeability	cm/hr	1.9
23	Porosity	%	28.7
24	Bulk Density	gm/cc	1.36

ANNEXURE-IX

Waste Water Generation & Treatment

It is expected that the project will generate approx. 343 KLD of wastewater. Approx. 78 KLD of wastewater will be treated in an on-site ETP of 95 KL capacity and 265 KLD of wastewater will be treated in an onsite STP of 350 KL combined capacity (i.e. 1 x 250 KL for Hospital & Pediatric Wing and 1 x 100 KL for Dharamshala and Guest House). The treated water from STP will be reused for flushing, horticulture and HVAC.

SOLID WASTE GENERATION

Solid waste would be generated both during the construction as well as operation phase. The solid waste expected to be generated during the construction phase will comprise of excavated materials, used bags, bricks, concrete, MS rods, tiles, wood, etc.

The following steps are proposed to be followed for the management solid waste:

- Construction yards are proposed for storage of construction materials.
- The excavated material such as topsoil and stones will be stacked for reuse during later stages of construction.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the group housing project.
- Remaining soil shall be utilized for refilling / road work / rising of site level at locations/ selling to outside agency for construction of roads etc.
- The Bio-medical waste will be managed using Autoclave and incinerator.
- Domestic Bio-degradable waste will be composted using OWC.

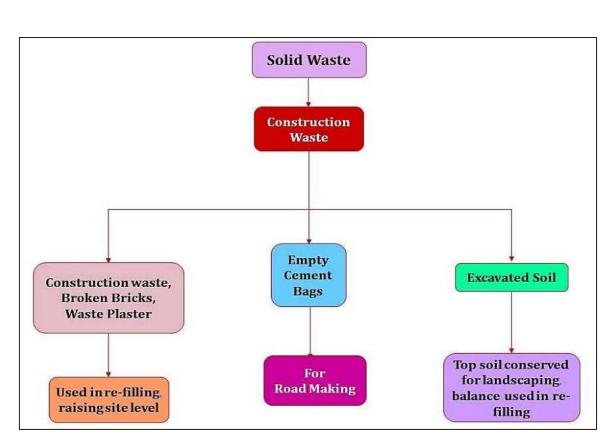


Figure 1 : Solid Waste Management Scheme (Construction Phase)

During the operation phase, approx. 1,910 kg/day. Details are provided in table below: ,

S. No.	Particulars	Norms	Waste generated	
		(Kg/capita/day)	(kg/day)	
1.	Indoor patients*	395 @1.5 kg/bed/day	592.5	
2.	Guests	940 @0.5 kg/bed/day	470	
3.	Residential Staff (Maintena	nce) 38 @0.5 kg/day	19	
4.	Non-residential Staff (Doctors + Visitors)	1,282 @0.25 kg/day	320.5	
5.	Out-Patients	3000 @0.15 kg/day	450	
6.	Landscape waste (8.53 acre	e) @0.2 kg/acre/day	1.7	
	Sub-1	1853.7 kg/day		
7.	STP Sludge (Waste water x	x 0.35 x B.O.D difference/1000)	36.17	
8.	ETP Sludge (Waste water >	x 0.35 x B.O.D difference/1000)	20.20	
	Total	Solid Waste	1,910 kg/day	
	*Bio-Medical waste	@ 25% of the waste generated/bed	148 kg/day	

Table 1: Calculation of Solid Waste

Following arrangements will be made at the site in accordance to Solid Waste Management Rules, 2016:

* Collection and Segregation of waste

- 1. A local vendor will be hired for waste collection and disposal from project.
- Adequate number of colored bins (Green and Blue & dark grey bins separate for Bio-degradable and Non Bio-degradable) are proposed to be provided at the strategic locations.
- 3. Litter bins will also be provided in open areas like parks, etc.

✤ <u>Treatment of waste</u>

- <u>Bio-Degradable waste</u>
- 1. Bio-degradable waste will be subjected to composting by organic waste converter and the compost will be used as manure.
- 2. STP sludge is proposed to be used for horticultural purposes as manure.
- 3. Horticultural Waste is proposed to be composted and will be used for gardening purposes.

<u>Recyclable wastes</u>

- i. Grass Recycling The cropped grass will be spread on the green area. It will act as manure after decomposition.
- ii. Recyclable wastes like paper, plastic, metals etc. will be sold off to recyclers.

✤ <u>Disposal</u>

Recyclable and non-recyclable waste will be disposed through a local agency.

Biomedical Waste will be disposed through an approved agency as per Biomedical Waste Management Rules, 2016 (amended 2019).

Solid waste management scheme is depicted in the following figure:

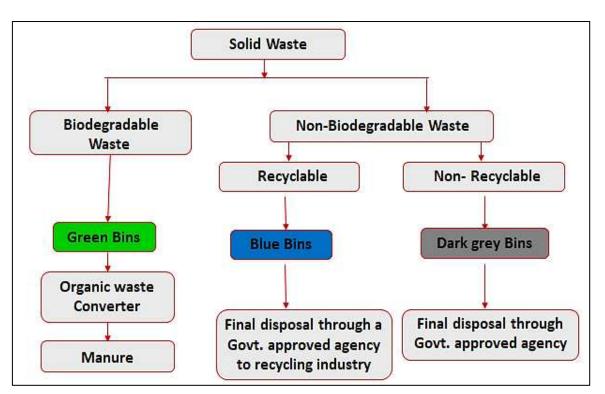


Figure 2 : Solid Waste Management Scheme (Operation Phase)



Figure 3: <u>BMW Management Scheme</u> (Operation Phase)

list of radioactive/nuclear devices along with their safety measures.

1. SPECT-CT scanner:-

The diagnostic activities are done using ¹³¹I **iodine**, ^{99m}**technetium** attached radiopharmaceuticals. They have short half lifes of 6 days & 6hrs respectively. 99mTechnetium occupies 90% of our case profile. Patients are injected with an approved dose between 0.5 millicuries to 20 millicuries. After scanning, the activity reduces to low levels which are below the regulations stipulated levels. patients then go home.

2. PETCT scanner:-

Here ¹⁸**F &** ⁶⁸**gallium** are the isotopes used as Radiopharmaceuticals; they have half life of 2 hrs and 1 hr respectively. Patients are injected and kept in special room/area and after voiding, they are scanned. Post voiding scan which is typically 90 minutes after injection, radiation inside the body is well below regulatory stipulated levels. The toilet waste is sent out through a dilute and disperse mechanism.

3. Brachytherapy source-

Iridium is used as radioisotope for LDR Brachytherapy which has an half life of......To add...usually the source is inside a bunker which mitigates the risk of emission. The radio-isotopes waste is disposed in decay tanks

The entire nuclear medicine facility right from plan, layout to final installation of equipment and license to operate is controlled through the AERB-Atomic energy regulatory Board. Annual report and event report if any is to be submitted as per rules.

ANNEXURE-X

ENERGY CONSERVATION MEASURES

- LED based lighting will be done in the common areas, signages, entry gates and boundary walls etc.
- ➢ Use of solar lights in common areas
- > Energy efficient motors.
- > Appropriate design to reduce heat gain and loss.
- > Maximization of natural ventilation & lighting.
- ➢ Compliance to AEDA & ECBC norms.

ECBC COMPLAINCE

Section 4 - Building Envelope

S. No.	Building Envelope Component	ECBC Prescriptive Compliance	Proposed
1	Top Roof	Reflectance = 0.7(U = 0.261 W/sqm K (max) ; Initial Solar min) ; Initial Emittance = 0.75(min)	Heat Reflective tile/china mosaic + 35 mm screed + geo textile & plastic sheet + 75 mm XPS Board + Waterproofing+ 150 mm RCC (with steel) + putty finish U= 0.12W/ sqm K
2	External Wall	U = 0.44 W/sqm K (max)	External light colored paint + 230mm Brick wall + 15mm Cement plaster U = 0.36W/sqmK (max)
3	Fenestration	U = 3.3 W/sqm K (max) ;	Single Glazing with improved SHGC along with horizontal and vertical shading devices, further reducing the effective SHGC. U = 3.8 W/sqm K (max) (coolite)
4	Air Leakages	through entrance doors within 5.0 l/s/sqm and	Since the project is Centrally air conditioned and we have considered fresh air through TFA units & for shops, fresh air will be taken through infiltration

TATA MEMORIAL CENTRE

Section 5 - HVAC

		ECBC Prescriptive Compliance	Proposed
1	Natural Ventilation	and 5.7.1.	Since the building height is more than 15 mtrs, we have considered both Mechanical & Natural ventilation as per NBC 2016.
2	- · ·	The cooling equipment must meet minimum efficiency parameters as prescribed by ECBC 2017	Flats: The developer shall not be providing air conditioning equipment, since the project is primarily designed to be naturally ventilated. However, the tenant and occupant guideline shall be provided by the developer specifying energy efficient minimum 3 star rated Inverter AC's

Section 7 – Lighting

S. No.	ll ighting	ECBC Prescriptive Compliance	Proposed
1	0 0	24 hour use building are excluded from this requirement	Timer based on/off control shall be provided for common area lighting.
2	7.2.3 Efficacy	Lighting for exterior building ground luminaries which operate at greater than 100 W shall contain lamps with minimum efficacy of 60 lm/W unless controlled by a motion sensor	Though the luminaries are not more than 100 watts, 100 % external lighting shall meet efficacy value of 60 lm/W

			Internal Lighting in Developers Scope:
3		Lighting Power Density recommended by ECBC Maximum permissible LPD is 9.5 W/sqm as per	W/sam
4	7.3.5 Exterior Lighting Power Density	maximum permissible	LED based energy efficient lighting shall be used and the LPD shall be well within the maximum allowed LPD limits.

Section 8 – Electrical Power

S. No.		ECBC Prescriptive Compliance	Proposed
	8.2.1 Transformers & DG Sets.	Maximum Allowable losses as per ECBC	The project has proposed 1 nos. of DG of 1 x 400 KVA rating. Transformers shall be efficiency efficient low loss as per ECBC compliant Transformers.
2		Minimum Efficiency as	The motors used by pumps proposed in the project shall be energy efficient complying with the ECBC norms.



ANNEXURE-XI

GOVERNMENT OF ODISHA HEALTH & FAMILY WELFARE DEPARTMENT

NO.HFW-MEII-ESTT-0013-2022- 21750 /H&F.W. Date- 28-09-2022

From

Dr. Ajit Kumar Mohanty Special Secretary (PH) to Government

TO

The Principal Secretary to Government.

Energy Department

Sub: Provision of 2 phase electricity supply to ensure uninterrupted power supply in connection with establishment of Cancer Hospital by TMC, Mumbai inside the campus of NISER, BBSR

Sir,

In-inviting a reference to this Department memo No.19937/H dtd.12.09.2022 on the subject cited above, I am directed to enclose here with a copy of the letter dtd. 08.09.2022 received from the Director, TMC, Mumbai wherein he has requested for making provision of two phased electricity supply to ensure uninterrupted power supply at a subsidized rate to the Cancer Hospital to be established by TMC, Mumbai in the campus of NISER, BBSR .

It has been decided in the meeting held on 26.08.2022 at 3rd Floor, Conference Hall, Lok Seva Bhawan, BBSR to provide power supply from two different OPTCL-GSS units i.e. from Arugul as primary source and from Mendhasal as an alternative source for the aforesaid purpose. Further, Government orders may kindly be obtained on the request of TMC for providing power at subsidized rate.

Therefore, you are requested to take necessary steps on the proposal submitted by TMC, Mumbai following due procedures under intimation to this Department.

Yours faithfully. Special Secretary to Government Date- 88-09-2022

Мето No. 21751 н.

information of Chief Secretary.

Copy forwarded to the PS to Chief Secretary, Odisha, for kind Special Secretary to Government

Memo No. _____H.

Date- 28-09-2023

Copy along with its enclosures forwarded to the Director, OPTCL / TPCODL, BBSR for kind information and necessary action with reference to this Deptt. Letter No.19934/H dtd.12.09.2022.

Memo No. ______Н.

Special Secretary to Government

Date- 28-09-2022

Copy forwarded to Dr. (Prof.) R. A. Badwe MS, Director, TMC, Mumbai, At-Dr. Emest Borges Marg, Parel, Mumbai-400012 (E-mail-Multivera@tmc.gov.in) for kind information and necessary action with reference to his letter dtd.08.09.2022.

29 gila

Special Secretary to Government

DG STACK EMISSION DETAILS

	DG set	set Stack & Flue details				Pollutants Emission				
Stack No.	Capacity (kVA)	Height (m)	velocity (m/s)	Temp (K)	Diameter (mm)	NO _x (g/s)	SO ₂ (g/s)	PM ₁₀ (g/s)	PM _{2.5} (g/s)	CO (g/s)
1.	1,250	37	25	453	450	2.04	0.006	0.042	0.028	0.78
2.	1,250	37	25	453	450	2.04	0.006	0.042	0.028	0.78
3.	1,250	37	25	453	450	2.04	0.006	0.042	0.028	0.78
4.	1,630	38	25	453	330	2.32	0.008	0.078	0.052	0.27
5.	1,630	38	25	453	330	2.32	0.008	0.078	0.052	0.27
6.	80	36	25	453	190	0.51	0.001	0.012	0.008	0.19
	Total Emission in g/s from 3 nos. of 1,250 kVA, 2 nos. of 1,630 kVA and 1 no. of 80 kVA (total capacity 7,090 kVA)					11.27	0.017	0.294	0.196	3.07

The minimum height of stack to be provided with each generator set has been worked out using the following formula:

 $H = h + 0.2\sqrt{kVA}$

Where:

H = Total height of stack in meter

h = Height of the building in meters

kVA = Total generator capacity of the set in kVA

Building height+6 m (Max of them)

1

- Total green area measures 34,530.51 m2 (20.53% of plot area)
- Evergreen tall and ornamental trees have been proposed to be planted inside the premises. The list of trees/plants to be planted.
- No. of trees required = 1 tree/80 sq.m. of plot area =1,68,195.4/80 = 2,102 Nos.
- Total no. of trees proposed = **2150 trees**.

LANDSCAPE DETAILS

S. No.	Туре	Common Name	Scientific Name	Family	No of Trees
1.	A39	Dhaura	Anogeissus latifolia	Combretacae	100
2.	A44	Neem	Azadirachta indica	Meliaceae	150
3.	D2	Indian rosewood	Dalbergia sissoo	Fabaceae	200
4.	L2	Jarul	Lagerstroemia speciosa	Lythraceae	175
5.	M7	Bakain	Melia azedarch	Meliaceae	150
6.	M10	Bakula	Mimusops Elengi	Sapotaceae	250
7.	S5	Bod	Salix tetrasperma	Salicaceae	250
8.	S13	Rahan	Soymida tebrifuya	Meliaceae	200
9.	T5	Saja	Terminalia alata	Combretacae	275
10.	Т6	Arjun	Terminalia arjuna	Combretacae	175
11.	Т9	Harra	Terminalia Chebulo	Cambretacea e	225
_		T	otal		2150

An EMC (Environment Management Cell) will be formed by the company & its responsibilities will be as follows:

Interaction with the State Pollution Control Board

- EMC will be in regular touch with SPCB and will send them environmental monitoring reports regularly in the prescribed format, as per the prevailing practice.
- Any new regulations considered by State/Central Pollution Control Board for the Industry will be taken care of by EMC.

Provide Training

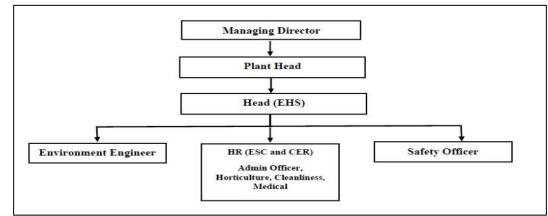
- EMC would be responsible for the implementation of the EMP. For the project, additional training facilities will be developed for environmental control.
- For proper implementation of the EMP, the officials responsible for EMP implementation will be trained accordingly.

Other Responsibilities of the Cell Will Include

- Timely renewal of Consents & Authorization will be taken care of.
- Submitting environmental monitoring report to SPCB. The cell will also take mitigative or corrective measures as required or as suggested by the Board.
- Conduct and submit annual Environmental Statement to SPCB.
- Prepare and submit six monthly report on the compliance with the conditions of the environmental clearance
- Keeping the management updated on regular basis about the findings / results of monitoring activities and proposes measures to improve environmental performance.
- Conducting regular safety drills and training programs to educate employees on safety practices. A qualified and experienced safety officer will be responsible for the issues related to occupational safety and health.
- Conducting safety and health audits to ensure that recommended safety and health measures are followed.

SOP for Flow of Information

- The Environmental Management Group would consist of Environment Engineer, HR (ESC and CER) Admin office, Horticulture, Cleanliness, Medical and Safety officer headed by Plant Head and Head (EHS) reporting to Managing Director.
- During the construction of the project, Project Review Team (PRT) meetings will be held every month wherein officials from the project and corporate centre will participate and discuss the progress and problems related to implementation of schedules of activities for construction, completion and commissioning.
- Monthly Operation Review Team (ORT) meetings for the project will be also held during project operation.
- The issues related to the compliance of environmental norms including problems associated with the mitigation measures identified will be included in the agenda for quarterly review meetings, wherein action plan for remedial measures will be drawn and monitored.
- The Head-Environment will brief the ORT about the environmental performance of the plant and all compliances/non-compliances are brought to the notice of MD.
- Action plan is drawn for rectifying the Non-compliance.



Organization Chart of Environmental Management Cell