June 2018

Speed post receipts of submission of six monthly compliance report to Regional office of MoEfcc. & LPCB.

Indiabuls Infrastate Ltd.

EM121882388IN IVR:6977121882388
SP KALYAN CITY H.O <421301>
Counter No:1,31/05/2018,14:15
To:KANMARJIT SIN,ADDL PRINCIPAL C
PIN:440001, Nagpur GPO
From:M/S DMMK IN,GATE 216
Wt:272gms
Amt:70.80(Cash)Tax:10.80
<Track on www.indiapost.gov.in>



भारतीय डाक

EM121882374IN IVR:6977121882374
SP KALYAN CITY H.O <421301>
Counter No:1,31/05/2018,14:15
To:B R NAIDU,CENTRAL POLLUTI
PIN:390023, Subhanpura S.O
From:M/S DMMK IN,GATE 216
Wt:292gms
Amt:70.80(Cash)Tax:10.80

(Track on www.indiapost.gov.in)



Date: 1/6/2013

To, S.R.O. Mumbai-I Maharashtra Pollution Control Board, The Regional officer, 201-202, Raikar Chambers, Govandi Station Road, Near Jain Temple, Govandi, Mumbai - 400 088

Subject

Submission of June 2018 Post Environmental Monitoring Report for our "Proposed Redevelopment project at plot bearing C.S No.128,129, & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai by M/s Indiabulls Intrastate Limited (Joint Development with M/s Oricon Properties Pvt Ltd. On 1st October 2016 vide their agreement no. 5092/6/119)—Environmental Clearance regarding

Reference

: Environmental Clearance vide letter no. SEAC-2013/ CR.502/ TC-1 dated 1st December, 2014- point no. 3 General conditions for Post-construction/operation phase - condition no. ix, xi and xii

Respected Sir,

With reference to above mentioned subject and as per the condition stated in Environmental Clearance Letter, we would like to submit the **June 2018 monitoring report** after receipt of Environmental Clearance for above mentioned site.

Hereby we are enclosing Data-Sheet along with annexure in format along with above mentioned Enclosures.

Please find this June 2018 Six monthly monitoring report as per the condition mentioned in received Environmental Clearance along with this letter.

Thanking you,

Yours Sincerely,
For M/s. Indiabulls Infraestate Limited

AUTHORIZED SIGNATORY

Cc:

1. Ministry of Environment and Forest, Climate Change, Regional office (WCZ), Nagpur

2. Central Pollution Control Board, Vadodara

3. Member Secretary SEIAA, Maharashtra



Date: 31/5/2018

To,

State Level Environment Impact Assessment Authority Maharashtra,

Environment Department,

New Administration Building,

15th floor, Mantralaya, Mumbai

State: Maharashtra

Kind Attn

: Member Secretary SEIAA

Subject

: Submission of June 2018 Post Environmental Monitoring Report for our "Proposed Redevelopment project at plot bearing C.S No.128,129, & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai by M/s Indiabulls Intrastate Limited (Joint Development with M/s Oricon Properties Pvt Ltd. On 1st October 2016 vide their agreement no. 5092/6/119)-

Environmental Clearance regarding

Reference

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Yours Sincerely,

For M/s. Indiabulls Infraestate Limited

पर्यावरण विभाग मंत्रालय, मुंबई-३२.

AUTHORIZED SIGNATORY

Cc:

1. Ministry of Environment and Forest, Climate Change, Regional office (WCZ), Nagpur

WILED

2. Central Pollution Control Board, Vadodara

3. Regional officer, Maharashtra Pollution Control Board, Mumbai, Maharashtra

Point wise compliance status to various stipulations laid down by the Government of India as per the Environmental Clearance issued vide letter no.

SEAC-2013 /CR-502/TC-1 dated 1st December 2014

Sr. No.	Condition Status						
General c	conditions for Pre construction Phase:						
i.	This environment clearance is issued to subject to	Compliance submitted Refer Annexure					
	condition that	no. 7 attached herewith					
	(a) Fire staircase to be open up on ground level.	Acknowledgement copy of compliance					
	(b) Revise lift lobby configuration in rehab	submitted.					
	component.	The project has received CFO NOC					
	(c) Designate one lift as fire lift.	which is attached as Annexure no. 16.					
ii.	This environmental clearance is issued subject to	Agreed to comply with.					
	land use verification. Local authority / planning						
	authority should ensure this with respect to Rules,						
	Regulations, Notifications, Government						
	Resolutions, Circulars, etc. issued if any. Judgments						
	/ orders issued by Hon'ble High Court, Hon'ble						
	NGT, Hon'ble Supreme Court regarding DCR						
	provisions, environmental issues applicable in this						
	matter should be verified. PP should submit exactly						
	the same plans appraised by concern SEAC and						
	SEIAA. If any discrepancy found in the plans						
	submitted or details provided in the above Para may						
	be reported to environmental consideration and it						
	does not mean that State Level Impact Assessment						
	Authority (SEIAA) approved the proposed land use.						
iii.	This environmental clearance is issued subject to	Not Applicable as the construction site is					
	obtaining NOC from Forestry & Wild life angle	not in forest area.					
	including clearance from the standing committee of						
	National Board for wild life as if applicable & this						
	environment clearance does not necessarily implies						
	that Forestry & Wild life clearance granted to the						
	project which will be considered separately on merit						
iv.	PP has to abide by the conditions stipulated by	Agreed to comply with.					

Sr. No.	Condition	Status	
	SEAC & SEIAA.		
v.	The height, construction built up area of proposed	Agreed to comply with.	
	construction shall be in accordance with the existing		
	FSI/FAR norms of the urban local body & it should		
	ensure the same along with survey number before		
	approving layout plan & before according		
	commencement certificate to proposed work. Plan		
	approving authority should also ensure the zoning		
	permissibility for the proposed project as per the		
	approved development plan of the area.		
vi.	"Consent for Establishment" shall be obtained from	We have received Consent to Establish	
	Maharashtra Pollution Control Board under Air and	from Maharashtra Pollution Control Board.	
	Water Act and a copy shall be submitted to the	Refer Annexure no. 3 attached herewith	
	Environment department before start of any	Consent to Establish.	
	construction work at the site.		
vii.	All required sanitary and hygienic measures should	Agreed to comply with.	
	be in place before starting construction activities and		
	to be maintained throughout the construction work		
	at the site.		
General C	Conditions for Construction Phase:		
i.	Provision shall be made for the housing of	Agreed to comply with.	
	construction labour within the site with all necessary		
	infrastructure and facilities such as fuel for cooking,		
	mobile toilets, mobile STP, safe drinking water,		
	medical health care, crèche and First Aid Room etc.		
ii.	Adequate drinking water and sanitary facilities	Agreed to comply with.	
	should be provided for construction workers at the		
	site. Provision should be made for mobile toilets.		
	The safe disposal of wastewater and solid wastes		
	generated during the construction phase should be		
	ensured.		
iii.	The solid waste generated should be properly	Agreed to comply with.	
	collected and segregated. Dry/inert solid waste		
	should be disposed off to the approved sites for land		

Sr. No.	Condition	Status	
	filling after recovering recyclable material.		
iv.	Disposal of muck during construction phase should	Agreed to comply with.	
	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 in approved sites with the approval of		
	competent authority.		
V.	Arrangement shall be made that waste water and	Arrangement of separate pipeline for	
	storm water do not get mixed.	waste water & laying of separate drain	
		line for storm water will be provided.	
vi.	All the topsoil excavated during construction	Top soil will be use in landscape	
	activities should be stored for use in horticulture /	development.	
	landscape development within the project site.		
vii.	Additional soil for leveling of the proposed site shall	Agreed to comply with.	
	be generated within the sites (to the extent possible)		
	so that natural drainage system of the area is		
	protected and improved.		
viii.	Green Belt Development shall be carried out	Landscape is developed as per CPCB	
	considering CPCB guidelines including selection of	guidelines.	
	plant species and in consultation with the local DFO	PG area for School: 668.88 Sq.mt	
	/ Agriculture dept.	• RG on the ground: 624.85 Sq.mt	
		• Trees to be retain: 1 no.	
		• Trees to be transplant: 4 nos.	
		• Total trees proposed to be planted: 134	
		Nos.	
		Refer Annexure no. 9 attached herewith	
		Landscape Plan and List of Trees.	
ix.	Soil and groundwater samples will be tested to	Refer Annexure no. 10 attached herewith	
	ascertain that there is no threat to ground water	Monitoring reports.	
	quality by leaching of heavy metals and other toxic		
	contaminants.		
X.	Construction spoils, including bituminous material	Such types of wastes are not anticipated in	
	and other hazardous materials, must not be allowed	this activity. There is no major water body	

Sr. No.	Condition	Status			
	to contaminate water sources and dumpsites for	around the project site. However, all			
	such material must be secured so that they should	possible measures will be taken to avoid			
	not leach into the ground water.	contamination of water bodies/streams.			
xi.	Any hazardous waste generated during construction We will take care that no hazardous				
	phase, should be disposed off as per applicable	will be generated during construction &			
	rules and norms with necessary approvals of the	operation phase.			
	State Pollution Control Board.				
xii.	The diesel generator sets to be used during	We will provide DG set which is of			
	construction phase should be low sulphur diesel	enclosed type & conforms to EPA			
	type and should conform to Environment	standards.			
	(Protection) Rules prescribed for air and noise				
	emission standards.				
xiii.	The diesel required for operating DG sets shall be	Agreed to comply with.			
	stored in underground tanks and if required				
	clearances from concern authority shall be taken.				
xiv.	Vehicles hired for bringing construction material to	Agreed to comply with. PUC of vehicles			
	the site should be in good condition and should	is checked and recorded at site entrance.			
	have a pollution check certificate and should	Refer Annexure no. 18 attached herewith			
	conform to applicable air and noise emission	PUC of heavy vehicles visiting the site.			
	standards and should be operated only during non-				
	peak hours.				
XV.	Ambient noise levels should conform to residential	Refer Annexure no. 10 attached herewith			
	standards both during day and night. Incremental	Monitoring reports.			
	pollution loads on the ambient air and noise quality				
	should be closely monitored during construction				
	phase. Adequate measures should be made to				
	reduce ambient air and noise level during				
	construction phase, so as to conform to the				
	stipulated standards by CPCB/MPCB.				
xvi.	Fly ash should be used as building material in the	Agreed to comply with.			
	construction as per the provisions of Fly Ash				
	Notification of September, 1999 and amended as				
	on 27 th August, 2003.				
	(The above condition is applicable only if the				

Sr. No.	Condition	Status		
	project site is located within the 100Km of Thermal			
	Power Stations.)			
xvii.	Ready mixed concrete must be used in building Yes, We will use RMC for our all b			
	construction.	construction activity when we start the		
		construction activity at site.		
xviii.	The approval of competent authority shall be	The construction will be done as per the		
	obtained for structural safety of the buildings due	structural safety norms under the		
	to any possible earthquake, adequacy of	supervision of certified Structural		
	firefighting equipment's etc. as per National	consultant.		
	Building Code including measures from lighting.			
xix.	Storm water control and its re-use as per CGWB	Noted.		
	and BIS standards for various applications.			
XX.	Water demand during construction should be	Noted. We will adopt good construction		
	reduced by use of pre-mixed concrete, curing	practices at site.		
	agents and other best practices referred.			
xxi.	The ground water level and its quality should be	Refer Annexure no. 10 attached herewith		
	monitored regularly in consultation with Ground	Monitoring reports.		
	Water Authority.			
xxii.	The installation of Sewage Treatment Plant (STP)	Agreed to comply with. We will install		
	should be certified by an independent expert and a	Sewage Treatment Plant of following		
	report in this regard should be submitted to the	capacities.		
	Ministry before the project is commissioned for	For Redevelopment : 110 KLD		
	operation. Treated effluent emanating from STP	For Sale: 120 KLD		
	shall be recycled, reused to the maximum extent	For School : 40 KLD		
	possible. Treatment of 100% grey water by	STP Technology : SAFF		
	decentralized treatment should be done. Discharge	Refer Annexure no. 13 attached herewith		
	of unused treated effluent shall conform to the	Location of STP and Details of		
	norms and standards of State Pollution Control	Proposed STP.		
	Board. Necessary measures should be made to			
	mitigate the odor problem from STP.			
xxiii.	Permission to draw ground water and construction	We have received the approval on		
	of basement if any shall be obtained from the	amended plan from Municipal Corporation		
	competent Authority prior to construction /	of Greater Mumbai is attached as		
	operation of the project.	Annexure no. 4. The Amended approved		

Sr. No.	Condition	Status				
		Layout as per MCGM approval Letter				
		Dated 16.10.2017 is attached as Annexure				
		no. 6.				
xxiv.	Separation of gray and black water should be done	Agreed to comply with and we will install				
	by the use of dual plumbing line for separation of	STP for treatment of Sewage Water. The				
	gray and black water.	sewage generated will be recycled for				
		flushing and Gardening purpose. Refer				
		Annexure no. 13 attached herewith				
		Location of STP and Details of				
		Proposed STP.				
XXV.	Fixtures for showers, toilet flushing and drinking	Agreed to comply with. We have				
	should be low flow either by use of aerators or	proposed low fixture taps.				
	pressure reducing devices or sensor based control.					
xxvi.	Use of glass may be reduced up to 40% to reduce	Agreed to comply with.				
	the electricity consumption and load on air					
	conditioning. If necessary, use high quality double					
	glass with special reflective coating in windows.					
xxvii.	Roof should meet prescriptive requirement as per	Agreed to comply with.				
	Energy Conservation Building Code by using					
	appropriate thermal insulation material to fulfill					
	requirement.					
xxviii.	Energy conservation measures like installation of	Agreed to comply with.				
	CFLs/TFLs for the lighting the areas outside the	Please refer Annexure no. 14 for details				
	building should be integral part of the project	of Energy Conservation measures				
	design and should be in place before project	proposed.				
	commissioning. Use CFLs and TFLs should be					
	properly collected and disposed off/spent for					
	recycling as per the prevailing guidelines/rules of					
	the regulatory authority to avoid mercury					
	contamination. Use of the solar panels may be done					
	to the extent possible like installing solar street					
	lights, common solar water heater systems. Project					
	proponent should install, after checking feasibility,					
	solar plus hybrid non-conventional energy source					

as source of energy. xxix. Diesel power generating sets proposed as source of back-up power for elevators and common area illumination during operation phase should be enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation
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the DG sets may be decided with in consultation
with State Pollution Control Board.
xxx. Noise should be controlled to ensure that it does Refer Annexure no. 10 attached herewit
not exceed the prescribed standards. During night Monitoring reports.
time the noise levels measured at the boundary of
the building shall be restricted to the permissible
levels to comply with the prevalent regulations.
xxxi. Traffic congestion near the entry and exit points Public road and public area are not being
from the roads adjoining the proposed project site used for project activity purpose and an
must be avoided. Parking should be fully free for smooth traffic movemen
internalized and to public space should be utilized. Provisions are made for adequate parking
facilities within the project complex an
no public space will be used for parkin
of vehicles.
xxxii. Opaque wall should meet prescriptive requirement Agreed to comply with.
as per Energy Conservation Building Code, which
is proposed to be mandatory for all air-conditioned
spaces while it is aspirational for non-air-
conditioned spaces by use of appropriate thermal
insulation material to fulfill requirement.
xxxiii. The building should have adequate distance Agreed to comply with.
between them to allow movement of fresh air and
passage of natural light, air and ventilation.
xxxiv. Regular supervision of above and other measures Regular supervision all through the
for monitoring should be in place all through the construction phase will be carried out.

Sr. No.	Condition	Status
	construction phase, so as to avoid disturbance to	
	the surroundings.	
XXXV.	Under the provisions of Environment (Protection)	Agreed to comply with.
	Act, 1986, legal action shall be initiated against the	
	project proponent if it was found that construction	
	of the project has been started without obtaining	
	environmental clearance.	
xxxvi.	Six monthly monitoring reports should be	June 2018 Monitoring report is
	submitted to the Regional office MOEF, Bhopal	attached herewith.
	with copy to this department and MPCB.	
General (Conditions for Post – construction/operation phase:	
i.	Project proponent shall ensure completion of STP,	Agreed to comply with.
	MSW disposal Facility, green belt development	
	prior to occupation of the buildings. No physical	
	occupation or allotment will be given unless all	
	above said environmental infrastructure is installed	
	and made functional including water requirement	
	in Para. 2. Prior certification from appropriate	
	authority shall be obtained.	
ii.	Wet Garbage should be treated by Organic Waste	Agreed to comply with.
	Converter and treated waste composting method	Wet garbage will be treated through
	and treated waste (manure) should be utilized in the	Organic waste converter & dry sludge
	existing premises for gardening. And, no wet	will be used as manure for gardening.
	garbage will be disposed outside the premises.	
	Local authority should ensure this.	
iii.	Local body should ensure that no occupation	Agreed to comply with.
	certification is issued prior to operation of	
	STP/MSW site, etc with due permission of MPCB.	
iv.	A complete set of all documents submitted to	Agreed to comply with.
	Department should be forwarded to the Local	
	authority and MPCB.	
v.	In case of any change(s) in the scope of the project,	Agreed to comply with.
	the project would require a fresh appraisal by this	
·	,	,

Sr. No.	To. Condition Status				
	Department.				
vi.	A separate environmental management cell with				
	qualified staff shall be set up for implementation of	Environment Management Cell structure			
	the stipulated environmental safeguards.	ronmental safeguards. is attached as Annexure no. 20.			
vii.	Separate funds shall be allocated for	The project has proposed separate funds			
	implementation of environmental protection	specifically allotted for Environmental			
	measures/EMP along with item-wise breaks-up.	Management which is attached as			
	These cost shall be included as part of the project	Annexure no. 21 for Budgetary			
	cost. The funds earmarked for the environment	allocation made for EMP.			
	protection measures shall not be diverted for other				
	purposes and year-wise expenditure should				
	reported to the MPCB & this department.				
viii.	The project management shall advertise at least in	Agreed to comply with. Refer annexure			
	two local newspapers widely circulated in the	no. 19 for Advertisement in local			
	region around the project, one of which shall be in	newspaper in Marathi and English			
	the Marathi language of the local concerned within				
	seven days of issue of this letter, informing that the				
	project has been accorded environmental clearance				
	and copies of the clearance letter are available with				
	the Maharashtra Pollution Control Board and may				
	also be seen at Website at				
	http://ec.mahahrashtra.gov.in				
ix.	Project management should submit half yearly	Yes. This is our June 2018			
	compliance reports in respect of the stipulated prior	Environmental Monitoring report.			
	environmental clearance terms & conditions in				
	hard & soft copies to the MPCB & this				
	Department, on 1st June & 1st December of each				
	calendar year.				
X.	A copy of clearance letter shall be sent by	Agreed to comply with.			
	proponent to the concerned Municipal Corporation				
	and the local NGO, if any, from whom				
	suggestions/representations, if any, were received				
	while processing the proposal. The clearance letter				
	shall also be put on the website of the Company by				

Sr. No.	Condition	Status	
	the proponent.		
xi.	The proponent shall upload the status of	Agreed to comply with.	
	compliance of the stipulated EC conditions,		
	including results of monitored data on their website		
	and shall update the same periodically. It shall		
	simultaneously be sent to the Regional office of		
	MoEF, the respective Zonal Office of CPCB and		
	the SPCB. The criteria pollutant levels namely:		
	SPM, RSPM, SO ₂ , NO _x (ambient levels as well as		
	stack emissions) or critical sector parameters,		
	indicated for the project shall be monitored and		
	displayed at a convenient location near the main		
	gate of the company in the public domain.		
xii.	The project proponent shall also submit six	Agreed to comply with.	
	monthly reports on the status of compliance of the	This is our June 2018 compliance	
	stipulated EC conditions including results of	report.	
	monitored data (both in hard copies as well as by e-		
	mail) to the respective Regional Office of MoEF,		
	the respective Zonal office of CPCB and the SPCB.		
xiii.	The environmental statement for each financial	Agreed to comply with.	
	year ending 31st March in Form-V as is mandated		
	to be submitted by the project proponent to the		
	concerned State Pollution Control Board as		
	prescribed under the Environment (Protection)		
	Rules, 1986, as amended subsequently, shall also		
	be put on the website of the company along with		
	the status of compliance of EC conditions and shall		
	also be sent to the respective Regional Offices of		
	MoEF by e-mail.		
4.	The Environmental clearance is being issued	Noted.	
	without prejudice to the action initiated under EP		
	Act or any court case pending in the court of law		
	and it does not mean that project proponent has not		
	violated any environmental laws in the past and		

Sr. No.	Condition	Status		
	whatever decision under EP act or of the Hon'ble			
	court will be binding on the project proponent			
	hence this clearance does not give any immunity to			
	the project proponent in the case filed against him,			
	if any or action initiated under EP act.			
5.	In case of submission of false document and	Noted.		
	noncompliance of stipulated conditions, Authority/			
	Environment Department will revoke or suspend			
	the Environmental Clearance without any			
	intimation and initiate appropriate legal action			
	under Environmental Protection Act 1986.			
6.	The environment department reserves the right to	Noted.		
	add any stringent condition or to revoke the			
	clearance if conditions stipulated are not			
	implemented to the satisfaction of the department			
	or for that matter, for any other administrative			
	reason.			
7.	Validity of Environmental Clearance: the	Noted.		
	environmental clearance accorded shall be valid for			
	a period of 5 years.			
8.	In case of any deviation or alteration in the project	Noted.		
	proposed from those submitted to this department			
	for clearance, a fresh reference should be made to			
	the department to assess the adequacy of the			
	condition(s) imposed and to incorporate additional			
	environmental protection measures required, if any.			
9.	The above stipulations would be enforced among	Agreed to comply with.		
	others under the Water (Prevention and Control of			
	Pollution) Act, 1974, the Air (Prevention and			
	Control of Pollution) Act, 1986 and rules there			
	under. Hazardous Wastes (Management and			
	Handling) Rules, 1989 and its amendments, the			
	public Liability Insurance Act, 1991 and its			
	amendments.			

Annexure List

Annexure No.		Details
1.	:	Current Status of Work
2.	:	Environment Clearance
3.	:	Consent to Establish
4.	:	Amended Plan approval Letter by MCGM
5.	:	Commencement Certificate
6.	:	Amended approved Layout as per MCGM approval Letter Dated 16.10.2017
7.	:	Acknowledge copy of Compliance submitted
8.	:	Approved Layout Plan as per previous EC dated 1st December 2014
9.	:	Landscape Plan and List of Trees
10.	:	Monitoring Report and Photographs
11.	:	Debris Disposal NOC
12.	:	RWH Plan
13.	:	Location of STP and Details of Proposed STP
14.	:	Energy Conservation measures
15.	:	MHADA NOC
16.	:	CFO NOC
17.	:	Civil Aviation NOC
18.	:	PUC of heavy vehicles visiting the site
19.		Advertisement in local newspaper in Marathi and English
20.	:	Environment Management Cell structure
21.	:	Budgetary allocation and expenditure done up till now for Environment Management Plan.
22.	:	Data Sheet with Annexure A, B

Annexure No. 10: Monitoring Report & Photographs



GREEN CIRCLE, INC.
Integrated HSEQR Consulting Engineers, Scientists & Trainers
(Recognised By Ministry of Environment and Forests, New Delhi Under EPA 1986)
(No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001:2008, 14001:2004, OHSAS 18001:2007 & NABL/ISO/IEC 17025 : 2005 Certified Organisation)

Report No: - GCI/V/Lab/EM/G0210/16-SP/18-19/May-00/0227

Date: 28/05/2018

ANALYSIS REPORT

Client Details			Sample Details		
Name	M/s. Oricon Prop	erties Pvt. Ltd.	Sample Code	GCI/V/18/E4/IBI/AA1	
Address	C.S. No. 128, 129 & 130 Lower Parel Division, G/S Ward, Dr. E. Moses Road,		Location	Near Blue Annex Building	
	Worli, Mumbai.		Date of Sampling	24/05/2018	
Sampling	Done By	Mr. Pragnesh	Sampling Instrument	RDS, FPS	
Analysis Started Date 25/05/2018		25/05/2018	Sampling Method	IS 5182 : Part 5 : 1975	
Analysis Completion Date 28/05/2018		28/05/2018	Sample Received Date	25/05/2018	

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1.	Particulate Matter(PM10)	μg/m³	74.8	100	IS 5182 : Part 23 : 2006
2.	Particulate Matter(PM _{2.5})	μg/m³	30.2	60	NAAQS Guidelines
3.	Sulfur dioxide (SO ₂)	µg/m³	8.0	80	IS 5182 : Part 2 : 2001
4.	Oxides of Nitrogen(NOx)	µg/m³	13.6	80	IS 5182 : Part 6 : 1975

Remark: results are within limit as per National Ambient Air Quality Standards (NAAQS) amended 2009

Analysis is subject to the condition In Which the Sample Is received at our Laboratory

Reports cannot be used as evidence anywhere including judiciary purpose without our prior permission.

Sample will be retained till one month from the date of sampling.

R&D

CORP. OFFICE & : Green Empire (Anupushpam), Above Axis Bank, Nr. Yash Complex, Gotri Road, Vadodara - 390 021 (Gujarat), India. Tel.: 0265-2371269, Cell: 093285 83835 E-mail: info@greencircleinc.com, Website: www.greencircleinc.com

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Cell: 099875 49920 Tel.: 022-28943090/60

: ALSO AT : -

NEW DELHI GOA PUNE BENGALURU RUDRAPUR HYDERABAD KOLKATA

: OVERSEAS :

AUSTRALIA OMAN KUWAIT AFRICA VIETNAM UAE

Date: 28/05/2018



GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers, Scientists & Trainers (Recognised By Ministry of Environment and Forests, New Delhi Under EPA 1986) (No. Q - 1508 / 32 / 2007 - CPW)

(ISO 9001:2008, 14001:2004, OHSAS 18001:2007 & NABL/ISO/IEC 17025 : 2005 Certified Organisation)

Report No: - GCI/V/Lab/EM/G0210/16-SP/18-19/May-00/0227

ANALYSIS REPORT

Client De	tails		Sample Details		
Name	M/s. Oricon Prope	erties Pvt. Ltd.	Sample Code	GCI/V/18/E4/IB/AA2	
Address	C.S. No. 128, 129 & 130 Lower Parel		Location	Near Main Gate	
	Division, G/S Ward, Dr. E. Moses Road,		Date of Sampling	24/05/2018	
	Worli, Mumbai.			80 10	
Sampling	Done By	Mr. Pragnesh	Sampling Instrument	RDS, FPS	
Analysis Started Date		25/05/2018	Sampling Method	IS 5182 : Part 5 : 1975	
Analysis	Completion Date	28/05/2018	Sample Received Date	25/05/2018	

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	National Ambient Air Quality Standards (NAAQS) amended 2009	Reference Method
1.	Particulate Matter(PM ₁₀)	µg/m³	80.1	100	IS 5182 : Part 23 : 2006
2.	Particulate Matter(PM _{2.5})	µg/m³	32.1	60	NAAQS Guidelines
3.	Sulfur dioxide(SO ₂)	µg/m³	6.3	80	IS 5182 : Part 2 : 2001
4.	Oxides of Nitrogen(NO _x)	µg/m³	10.1	80	IS 5182 : Part 6 : 1975

Remark: results are within limit as per National Ambient Air Quality Standards (NAAQS) amended 2009

Authorized Signatory

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6, Ground Floor, Shakuntala Niwas, M.G. Road, Opp. G.H. School, Borivali (E) Mumbai - 400 066 India. Cell: 099875 49920 Tel.: 022-28943090/60

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Report No: - GCI/V/Lab/EM/G0210/16-SP/18-19/May-00/0227

ANALYSIS REPORT

Client Details			Sample Details		
Name	M/s. Oricon Prop	erties Pvt. Ltd.	Sample Code	GCI/V/18/E4/IBI /DW1	
Address C.S. No. 128, 129 & 130 Lower Parel		Location	Labor camp 3 rd Floor Tower(D)		
	Division, G/S Ward, Dr. E. Moses Road, Worli, Mumbai.		Quantity	1000 ml	
			Date of Sampling	24/05/2018	
Sampling	Done By	Mr. Pramit	Date of Sample Received	25/05/2018	
Analysis Started Date 25/05/2018		Sampling Instrument	Manual Sampler		
Analysis Completion Date 28/05/2018		Sampling Method	APHA 1060		

DRINKING WATER ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Permissible limit as per IS-10500-2012 for Drinking Water	Reference Method
1.	Hq	-	7.24	6.5-8.5	APHA 4500
2.	Turbidity	NTU	<1	5.0	APHA 2130
3.	Odour	==	Agreeable	Agreeable	APHA 2150
4.	Taste	-	Agreeable	Agreeable	APHA 2160
5.	Colour	Hazen	<5	15	APHA 2120
6.	Oil & Grease	mg/L	<0.5	-	APHA 5520
7.	Chloride as Cl	mg/L	15.7	1000	APHA 4500 - CI-
8.	Sulphate	mg/L	2.7	400	APHA 4500 SO4 – E
9.	Total Hardness as CaCO ₃	mg/L	148	600	APHA 2340 C
10.	Residual Free Chlorine	mg/L	<0.1	1	APHA 4500 - CI
11.	Iron as Fe	mg/L	0.10	0.3	APHA 3111 – B

Remark: This Sample is fit for drinking purpose as per IS-10500:2012

Authorized Signatory

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Report No: - GCI/V/Lab/EM/G0210/16-SP/18-19/May-00/0227

Date: 28/05/2018

ANALYSIS REPORT

Client Details			Sample Details		
Name	M/s. Oricon Properties Pvt. Ltd.		Sample Code	GCI/V/18/E4/N1 to N4	
Address	C.S. No. 128, 129 & 130 Lower Parel Division, G/S Ward, Dr. E. Moses		Location	As per table	
			Quantity	NA	
	Road, Worli, Mum	bai.	Date of Sampling	24/05/2018	
Sampling	Done By	Mr. Pramit	Sampling Instrument	Sound Level Meter	
				(HTC/SL-1352)	
Analysis Completion Date 28/03		28/05/2018	Sampling Method	HTC/SL-1352 Inst. Manual	

NOISE MONITORING RESULTS

c 11		Day Time dB (A)			
Sr. No.	Location Name	Results	MPCB Permissible Limit		
1.	Near Blue Annex Building	59.8	75.0		
2.	Near Main Gate	68.7	75.0		
3.	Near Club House	61.7	75.0		
4.	Near Tower (D)	69.8	75.0		

Remark: Results are within limit as per Maharashtra Pollution Control Board.

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Report No: - GCI/V/Lab/EM/G0210/16-SP/18-19/May-00/0227

Date: 28/05/2018

ANALYSIS REPORT

Client details			Sample Details		
Name	M/s. Oricon Prop	erties Pvt. Ltd.	Sample Code	GCI/V/18/E4/ IBI/S1	
Address	C.S. No. 128, 129	& 130 Lower Parel	Sample Location	Near Blue Annex	
	Division, G/S Ward, Dr. E. Moses			Building	
	Road, Worli, Mur	nbai.	Quantity	1000 gm	
Sampling	Done By	Mr. Pragnesh	Date of Sampling	24/05/2018	
Analysis Started Date 25/05/2018		Date of Sample Received	25/05/2018		
Analysis C	Completion Date	28/05/2018	Sampling Instrument	Auger	

SOIL ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Results	Reference Method
1.	pH (10 % Suspension)	TET	7.74	IS 2720 - Part - 26
2.	Organic Matter	%	0.28	IS 2720 - Part - 22
3.	Moisture	%	3.9	IS 2720 - Part - 2
4.	Organic Carbon	%	0.46	IS 2720 - Part - 22
5.	Zinc	mg/kg	149	APHA 3111 – B
6.	Chromium	mg/kg	10.2	APHA 3500 – B
7.	Iron	mg/kg	995	APHA 3111 – B



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: OVERSEAS :

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Monitoring Photographs:









Annexure no. 22: Data Sheet with Annexure A & B

Monitoring the Implementation of Environmental Safeguards Ministry of Environment & Forests Regional Office (W), Nagpur Monitoring Report

PART - I

DATA SHEET

Date: 1st June 2018

1.	Indu	ect type: River - valley/ Mining / astry / Thermal / Nuclear / Other cify)	:	Redevelopment project at Worli Mumbai
2.	Nan	ne of the project	:	Proposed redevelopment at plot C.S. No. 128, 129, & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai by M/s Oricon Properties P L.
3.	Clearance letter (s)/OM No. and Date		•	Environmental Clearance vide letter no. SEAC-2013/CR-50/TC-1 dated 1st December, 2014.
4.	Loc	ation	:	
	a.	District (S)	:	Mumbai
	b.	State (S)	:	Maharashtra
	c.	Latitude/ Longitude	:	19 ⁰ 00'03.45" N Latitude 72 ⁰ 48'28.05" E Longitude
5.	Add	ress for correspondence	:	Mr. Purav Acharya M/s. Indiabulls Infraestate Ltd. 16 th floor, Indiabulls Finance Centre, Elphinstone Mills Compound, 612 - 613, Senapati Bapat Marg, Elphinstone (West), Mumbai- 400 013. Email id: purav.acharya@indiabulls.com Mobile No.: 9004468173
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone / telex / fax numbers)	:	Col. S.S. Kadyan (Retd.) M/s. Indiabulls Infraestate Ltd. Site Office address: Tower D: 2 nd floor, Indiabulls BLU Opposite to Shriram Mills, C.S. No. 131,132 & 1/132, Ganpatrao Kadam Marg, Near Worli Naka, Lower Parel, Mumbai- 400 013. Email id: SSkadyan@indiabulls.com

	b.	Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers)	:	Mr. Arvind Vishwakarma M/s. Indiabulls Infraestate Ltd. Site Office address: Tower D: 2nd floor, Indiabulls BLU Opposite to Shriram Mills, C.S. No. 131,132 & 1/132, Ganpatrao Kadam Marg, Near Worli Naka, Lower Parel, Mumbai- 400 013. Email id: arvishwakarma@indiabulls.com Mobile No.:9004057015
6.	Salıe	ent features	:	
	a.	of the project	:	Annexure A
	b.	of the environmental management plans	:	Total Cost for Construction Phase: 73.62 lakhs Total Cost for Operation Phase: Capital cost: 209.15 lakhs Operational & Maintenance: 65.31 lakhs O& M of EMF for 3 years after getting possession (65.31 X 3years): 195.92 lakhs
7.	Brea	kup of the project area	:	
	a.	submergence area forest & non-forest	:	Project site is not a forest area
	b.	Others	:	Annexure - A
8.	with hous land agric labo	es/dwelling units Only agricultural only, both Dwelling units & cultural Land & landless urers/artisan	•	There were existing buildings on site which has been demolished.
	a.	SC, ST/Adivasis	:	Not Applicable
	b.	Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	•	Not Applicable

9.	Fina	ncial details	:	
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 164.58 Crores
	b.	Allocation made for environmental management plans with item wise and year wise Break-up.	:	Refer Annexure B
	c.	Benefit cost ratio/Internal rate of Return and the year of assessment	:	-
	d.	Whether (c) includes the Cost of environmental management as shown in the above.	:	-
	e.	Actual expenditure incurred on the environmental management plans so far	:	Rs. 3.0 Lakhs
10.	Fore	est land requirement	:	
	a.	The status of approval for diversion of forest land for non-forestry use	:	Not Applicable as project does not involve forest land
	b.	The status of clearing felling	:	Not Applicable
	c.	The status of compensatory afforestation, if any	:	Not Applicable
	d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	•	Not Applicable
11.	The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information		•	Not Applicable
12.			:	
			:	1 April 2018
	b.	Date of completion (Actual and/of planned)	:	Not Anticipated yet.
13.		Reasons for the delay if the Project is yet to start		NA
14	Date	es of site visits	:	NA
	a.	The dates on which the project was monitored by the Regional Office on	:	20 March 2018

		previous Occasions, if any		
	b.	Date of site visit for this monitoring report	:	June 2018 at the time of Monitoring.
15.	auth plan to sa	orities for obtaining Action s/information on Status of compliance afeguards Other than the routine letters Logistic support for site visits	•	Not Applicable
	the o	e first monitoring report may contain details of all the Letters issued so far, the Later reports may cover only the ers issued subsequently.)	•	-

Annexure - A

1. PROJECT DETAILS

Total no. of workers to be employed during the construction phase.	:	Proposed redevelopment at plot C.S. No. 128, 129, & 130, Lower Parel Division , G/S ward, Dr. E. Moses Road , Worli, Mumbai by M/s Oricon Properties Pvt. Ltd. Peak: 200 Nos. Average : 250 Nos.				
Total Project cost	:	Rs.164.58 Crores	S			
Project infrastructure	:	Redevelopment (Building 1)	Sale (Building 2)	Reservation secondary school (Building 3)		
		Gr (shops) + Service floor + 12 upper floor Flats: 163 Nos. Shops: 29 Nos.	Gr + 8 Podia + 9 + 32 upper floors + 33 rd (part floor) Flats: 177 Nos	Basement + Ground + 8 floors.		
Area Statement	:	Total Plot Area: 7,8 Net Plot Area: 7,8 FSI area (includin Total Construction R. G. Area on the Total Ground cov	10.24 Sq. mt. In grungible FSI): In area: 6, 8907.13 In ground: 624.85	Sq. mt.		

Water Requirement and Sources	:	Dry Season :
		• Fresh water (CMD) =181
		Domestic from MCGM =173
		Swimming pool makeup :From water tanker of
		potable quality = 8
		• Recycled water(CMD) = 105 (STP Treated
		sewage)
		Flushing = 101
		Gardening =4
		• Total Water Requirement(CMD) = 286
		Swimming pool(CMD)= As mentioned above
		• Fire Fighting (Cum) :
		Redevelopment: 150 (One time required)
		Sale: 350 (One time required)
		School: 100 (One time required)
		Wet Season :
		• Fresh water (CMD) =181
		Domestic from MCGM =127
		From RWH tanks = 46
		Swimming pool makeup :From water tanker of
		potable quality = 8
		• Recycled water(CMD) = 101 (STP Treated
		sewage for flushing)
		• Total Water Requirement (CMD) = 282
		• Swimming pool (CMD)= As mentioned above
		• Fire Fighting (CMD):
		Redevelopment: 150 (One time required)
		Sale: 350 (One time required)
		School: 100 (One time required)
Sewage and waste water	:	• Sewage generation(CMD):
		Redevelopment: 99 KL
		Sale: 104 KL
		School: 36 KL
		• STP technology : Submerged Aerated Fixed Film
		Reactor(SAFF)
		• Capacity of STP(CMD)
		Redevelopment :110 KL
		Sale: 120 KL
		School: 40 KL
		• Location of STP:
		Redevelopment & Sale : Underground
		School: Basement floor

• Maximum demand: Redevelopment: 771KW Sale:1607 KW School:69 KW Total: 2447 KW • Connected load: Redevelopment: 2306 KW Sale: 4855 KW School: 88 KW Total: 7249 KW • DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Gaseous emissions : • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day Wet waste: 556 Kg/day	Power	:	Power supply:
Sale:1607 KW School:69 KW Total: 2447 KW Connected load: Redevelopment: 2306 KW Sale: 4855 KW School: 88 KW Total: 7249 KW DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Gaseous emissions : Vehicle carrying materials to be transported must have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: Garbage: Uwaste: 306 Kg/day Wet waste: 556 Kg/day			Maximum demand:
School:69 KW Total: 2447 KW Connected load: Redevelopment: 2306 KW Sale: 4855 KW School: 88 KW Total: 7249 KW DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Solid waste from: Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: Garbage: Uwaste: 306 Kg/day Wet waste: 556 Kg/day			Redevelopment: 771KW
Total: 2447 KW Connected load: Redevelopment: 2306 KW Sale: 4855 KW School: 88 KW Total: 7249 KW DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Gaseous emissions : Vehicle carrying materials to be transported must have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: Garbage: Dry waste: 306 Kg/day Wet waste: 556 Kg/day			Sale:1607 KW
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School: 88 KW Total :7249 KW • DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale : 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost : Rs. 109.96 lacs O & M cost : Rs. 29.24 Lacs/annum Gaseous emissions : • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from : : • Waste generation in operation phase Dry waste : 306 Kg/day Wet waste : 556 Kg/day			Redevelopment : 2306 KW
Total :7249 KW • DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale : 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost : Rs. 109.96 lacs O & M cost : Rs. 29.24 Lacs/annum Gaseous emissions : • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from : : • Waste generation in operation phase Dry waste : 306 Kg/day Wet waste : 556 Kg/day			Sale: 4855 KW
DG set (during emergency): for essential back-up (Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Gaseous emissions : Vehicle carrying materials to be transported must have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: : Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			School: 88 KW
(Total DG capacity of the project including load of STP) Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum : • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			Total :7249 KW
Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Caseous emissions : • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			• DG set (during emergency): for essential back-up
Redevelopment: 1 DG set of 160 KVA Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			(Total DG capacity of the project including load of
Sale: 1 DG set of 725 KVA School: 1 DG set of 100 KVA • Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			STP)
School: 1 DG set of 100 KVA Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Vehicle carrying materials to be transported must have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			Redevelopment: 1 DG set of 160 KVA
Budgetary allocation: Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum Vehicle carrying materials to be transported must have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			Sale: 1 DG set of 725 KVA
Capital cost: Rs. 109.96 lacs O & M cost: Rs. 29.24 Lacs/annum • Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			School: 1 DG set of 100 KVA
Gaseous emissions : Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			Budgetary allocation:
Gaseous emissions : Vehicle carrying materials to be transported must have PUC certificate. • Heavy vehicle movement will be allowed only during night time. • Construction equipment's with idling control technologies will be used. • Regular maintenance of the equipment's will be carried out. Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			Capital cost: Rs. 109.96 lacs
have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be carried out. Solid waste from: Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day			O & M cost: Rs. 29.24 Lacs/annum
Solid waste from: : • Waste generation in operation phase Dry waste: 306 Kg/day Wet waste: 556 Kg/day	Gaseous emissions	•	 have PUC certificate. Heavy vehicle movement will be allowed only during night time. Construction equipment's with idling control technologies will be used. Regular maintenance of the equipment's will be
Garbage: Dry waste : 306 Kg/day Wet waste : 556 Kg/day	Solid waste from :	:	Waste generation in operation phase
1 Wat		•	
			, i
2. Dry			STP sludge (Dry sludge): 36 Kg/day Mode of Disposal of weste
Mode of Disposal of waste Dry waste:			_
Non-recyclable : To M.C.G.M			•
Recyclable: To recyclers			· · · · · · · · · · · · · · · · · · ·
Wet waste : Organic Waste Converter (OWC) STP sludge (Dry Sludge) : As manure.			

Annexure B

EMP For Construction Phase

Sr.	Environmental Component	Activity	Impacts	Precautionary measures
1	Ambient Air Quality & Noise level	 Site Clearance Excavation Construction of Structures Heavy vehicle traffic Use of DG Set Open burning of waste 	 Increased level of dust & other air pollutants Increased Noise level. 	For controlling air pollution: Water Sprinkling Cover on trucks Use of RMC Vehicles with valid PUC Maintaining smooth traffic flow DG sets: As per CPCB norms, Proper Maintenance, Use of Low sulphur fuel. Restricting open burning of solid waste For controlling noise pollution: Barricades along the periphery of the site. Ear Plugs for Labourers D.G. sets with acoustic Enclosures. No noise polluting work in night shifts. Using electrically operated construction equipment.
2	Water	 Use of fresh water for Construction activity / labours Wastewater generation Disposal of site Run off into SWD Water logging 	 Strain on the water supply in the vicinity Sedimentation, Pollution of nearby water courses. Unhygienic condition for surrounding residents. 	 Use of tanker water for construction. No burden on municipal supply Provision of temporary toilets and bathing facilities. Provision of septic tanks and soak pits. Construction water will be channelized properly and silt traps will be provided before disposal into natural drain. Disposal of logged water periodically.
3	Soil	• Preconstruction and excavation	• Loss of good fertile soil	• Recycle of Debris as far as possible in

	-	debris Storage of construction material / chemicals Transportation of hazardous material Residual paints Solvents/ bituminous material etc. operation / maintenance Generation of garbage by labourers g precautions if soil it to authorized site.	contamination due to mixing of construction material/ accidental spillage of chemicals /oils	 construction area Disposal of debris to authorized sites/ recognized landfill sites Proper and Separate storage of construction material Storage of all petroleum products on impervious layers viz. concrete. Transportation, storage and handling, disposal of HW as per their guidelines and handing it over to authorized agencies. Use of electrically operated machinery. Segregation of waste at Source
4	Ecology	Site clearance, Construction of structures	 Disturbing natural flora and fauna Loss of vegetation from chemical spills from vehicles 	 Plantation of local tree species. Plantation of trees Regulation of vehicular trips and speed and proper maintenance of machinery.
5	Safety & Hygienic Measure	Construction work Labour	 Positive impact : Employment generation Safety and hygiene at site may be affected during construction 	 Adequate drinking water, toilet and bathing facilities. Regular analysis of drinking water. Personal protective and safety equipment will be provided. First aid facility. Regular health check up Regular pest control at site. Educational and awareness programme for safety measures.

EMP for Operation Phase:

Sr. no.	Environmental Component	Activity	Impacts	Precautionary measures
1	Ambient Air Quality & Noise level	Increased vehicular trips, Use of DG sets	 Traffic congestion Air Pollution Increase in noise level 	 Adequate Parking provision; well organized traffic management plan for smooth flow of vehicles. Regular PUC check-up for vehicles. DG sets: As per CPCB norms, Proper Maintenance, Use of Low Sulphur fuel. Acoustic Enclosures for DG sets Plantation of trees will reduce air pollution and also act as noise buffer.
2	Water	 Increased demand of natural water, Generation of waste water Increased paved structure 	 Stress on existing water supply Pollution of water bodies Increased run off from site. 	 Use of water saving practices Adoption of dual flush system Rain water harvesting and use of rain water Plantation of less water consuming trees. STP is planned and treated sewage will be used for secondary requirement like flushing and gardening.
3	Land	 Solid waste generation, Transportation of hazardous material Increased paved structure 	spillage of hazardous chemicals leads to soil contaminat ion Increased run off from site.	 Waste minimization recovery and reuse Segregation at source for all solid waste streams Recycling of non-biodegradable garbage. Treatment of biodegradable garbage by OWC for Sale building and its use as manure Use of dried STP sludge as manure Transportation, storage and handling, disposal of HW / E waste as per their guidelines and handing it over to authorized agencies. Strom water drainage of adequate Capacities.
		g precautions if soil to authorized site	l is found to be	contaminated, it shall be removed

4	Ecology	Introduction of new tree species	 Disturbing natural flora and fauna Increased Exposure to anthropoge nic activities. 	Plantation of local tree species.
5	Safety & Hygienic Measure	influx of people	 Stress on all utilities, risk and danger due to natural and manmade disaster Positive impact : Employmen t generation 	Emergency preparedness plan and Disaster management plan will be Prepared and explained with the help of local NGO's and surrounding people and authority.

HAZARDOUS WASTE MANAGEMENT PLAN

Construction Phase:

Environmental Management Plan for Hazardous Waste Generation

Sr. No.	Source of Hazardous Waste Generation	Mitigation Measures
1	Leakages and spillage oil or fuel	 * Contaminated soil if any shall be disposed off to Authorized Disposal Site. * Bituminous materials /any other chemicals shall not be allowed to leach into the soil.
2	Residual Paints/Solvents	do

Other hazardous wastes, if any, shall also be handled in the similar way through authorized dealers only.

Operational Phase:

Sr. No.	Source of Hazardous Waste Generation	Mitigation Measures	Disposal	
1.	Waste Oil from D.G Sets	-	Waste oil will be	e
			handed over to	5
			authorized recyclers.	