


	Environment Clearance Compliance Report		
Project	Kharghar Bus Terminal (KHBT)	Date	21.06.2021

ENVIRONMENT CLEARANCE (EC) COMPLIANCE REPORT.

CIDCO – PMAY Package – ii Project.

Project Location: Kharghar Bus Terminal (KHBT)

Date: 21.06.2021




		Environment Clearance Compliance Report			
Project		Kharghar Bus Terminal (KHBT)	Date	21.06.2021	

There are Two types of condition for Environment Clearance.

1. SPECIFIC CONDITION.
2. GENERAL CONDITION.

SPECIFIC CONDITION

Sr. No	Description	Remarks
1	PP to upload the disaster management plan considering the failure of mitigation measures provided by them like effluent treatment plant, grease traps, Air cleaning system, noise barriers etc. as one of the likely disaster point.	To be address by CIDCO / AHC
2	PP to reuse the treated water for bus cleaning. Also to provide water treatment plant in project site itself.	To be address by CIDCO / AHC
3	The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.	To be address by CIDCO / AHC
4	PP to ensure that CER plan get approved from Municipal Commissioner/District Collector.	To be address by CIDCO / AHC
5	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/20 18-IA.111 dt.04.0 1.2019.	
6	SEIAA decided to grant EC for-FSI-57748.80 m2, Non-FSI- 69516.50 m2 and Total BUA-127265.30 m2 (Plan Approval no- CIDCO/Sr. Arch.(BP-IHP)/2019/365, Date 08.08.20 19)	For Information.

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GENERAL CONDITION.

Sr. No	Description	Remarks
1	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.	Shall be comply at the time of generation
2	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.	Post Construction stage.
3	This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the 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.	To be address by AHC / CIDCO
4	PP has to abide by the conditions stipulated by SEAC& SEIAA.	
5	The height, Construction built up area of proposed 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.	CC received from concern authority.
6	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	CTE available
7	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Necessary measures in place. Refer Annexure - 01
8	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Adequate provision made / provided. Refer Annexure – 02
9	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	Solid waste collected at designated place and dispose of through authorise vendor
10	Disposal of muck during construction phase should 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.	Muck dispose of in designated place / plot. 7 /12 closed.
11	Arrangement shall be made that waste water and storm water do not get mixed.	
12	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Followed. Refer Annexure - 03
13	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Earth from UGT used for foundation and levelling work.
14	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	To be address by design consultant.
15	Soil and ground water samples will be tested to ascertain that there is no	Tests are `conducted and reports

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	threat to ground water quality by leaching of heavy metals and other toxic contaminants.	enclosed. Refer Annexure - 04
16	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.	Construction Spoils and other hazardous material collect and dispose off in proper way to avoid water contamination. Refer Annexure - 05
17	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	Note , Shall be comply as and when generated.
18	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	Followed, Record enclosed. Refer Annexure - 06
19	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	Only 400 Ltr. Store which is less than permissible limit. Hence storage and clearance undertaken as per petroleum act.
20	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Complied, Refer Annexure - 07
21	Ambient noise levels should conform to residential standards both during day and night. Incremental 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.	Followed. Refer Annexure - 08
22	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).	Fly ash as well as GGBS use in works.
23	Ready mixed concrete must be used in building construction.	Complied
24	Storm water control and its re-use as per CGWB and BIS standards for various applications.	To be address by consultant.
25	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Curing Compound used to reduce the water demand during construction. Refer Annexure - 09
26	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	Ground water quality test has been undertaken and recorded.
27	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/ refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.	To be address by AHC / CIDCO
28	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	No basement in project and ground water not being use for construction, approval shall be

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		taken from competent authority.
29	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	To be address by design consultant.
30	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	To be address by AHC
31	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	To be address by AHC
32	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	To be address by AHC
33	Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed of/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.	To be address by AHC
34	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of 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 with Maharashtra Pollution Control Board.	To be address by AHC
35	Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Followed Noise Monitoring report enclosed. Refer Annexure - 10
36	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Followed. Refer Annexure - 11
37	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	To be address by AHC
38	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	To be address by AHC
39	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Regular supervision for monitoring of applicable provision/measures in place.
40	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Work started after obtaining EC and other statutory approval.
41	Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.	Followed.
42	Project proponent shall ensure completion of SIP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during	To be address by AHC

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	the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.	
43	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.	To be address by AHC
44	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	Post Construction
45	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.	To be address by CIDCO / Consultant.
46	In the case of any change(s) in the scope of the project. the project would require a fresh appraisal by this Department.	Noted
47	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	To be address by CIDCO
48	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should reported to the MPCB & this department.	To be address by CIDCO
49	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://parivesh.nic.in	To be address by CIDCO / AHC
50	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1 st December of each calendar year.	To be address by consultant / CIDCO
51	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	To be address by CIDCO
52	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall 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.	Displayed at site.
53	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	To be address by CIDCO / Consultant.

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54	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions a shall also be sent to the respective Regional Offices of MoEF by e-mail.	To be address by CIDCO / Consultant.

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Annexure- 01 : - All required sanitation and hygienic measures have been taken prior to start the construction work and it shall be maintained till completion of project.



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Annexure – 02 :- Adequate drinking water and sanitary facilities provided for construction workers at the site.
The safe disposal of wastewater and solid wastes in place.





RO Plant installed at site for drinking water.

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Annexure: – 03: All the excavated topsoil stored and used for horticulture / landscape development within the project site.



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Annexure – 04 : Ground water testing is being followed for water quality monitoring.



Report No. :- Water /82/2020-21

CITY & INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LTD.

CIDCO MATERIAL TESTING LABORATORY, SANPADA

SHOP NO D001-D003, GROUND FLOOR, HIGHWAY SIDE, SANPADA RAILWAY STATION, NAVI MUMBAI

REF NO: CIDCO/EE(Q.C.)/LAB/SAN/ 8977 Date: 17/06/21

TEST REPORT FOR WATER / SOIL / AGGREGATES



NAME OF AGENCY	M/s Capacite's Infraproject Pvt Ltd.		
NAME OF WORK	Construction of approximately 21348 Nos. of EWS/LIG type dwelling ur (Package-II) with development of commercial area & onsite infrastructure wor at various locations, viz Kharghar Station, Kharghar Bus Terminal, Panvel B Terminal, Kalamboli Bus Depot, Kharghar Bus Depot, Vashi Truck Terminal Kharghar Sector 44, Navi Mumbai. KHST.		
C.A.NO	01/CIDCO/CE(SPY)2019-20		
REFERENCE	Sample received on 15-03-2021		
DEBIT/RECEIPT NO	6100002643/2020	Date:	12-03-2021
Description of Material	Sub soil Water		

OBSERVATIONS & RESULTS				
Sr.No.	Sample Identification Mark	Test conducted	Result	Acceptance Criteria as per IS 456:2000
1	KHBD T10	Ph Value	6.80	Shall not be less than 6
		Sulphates Value (ppm)	170.00	400 mg/l (max.)
		Chlorides Value (ppm)	160.00	2000 mg/l (max.) for concrete not containing embedded steel and 500 mg/l for reinforced concrete work

Note 1. Above test results are based on the sample submitted by the Agency.
 2. Any correction invalidates this certificate.
 3. Method of test- I.S. 456 , I.S. 3025 (Part 24) & I.S. 3025 (Part 32)
 4.No part of the report, except in full, shall be reproduced without written consent of the Competent Authority.

To,
EE(MHP-IW)




 LAB-IN-CHARGE

	Environment Clearance Compliance Report		
Project	Kharghar Bus Terminal (KHBT)	Date	21.06.2021

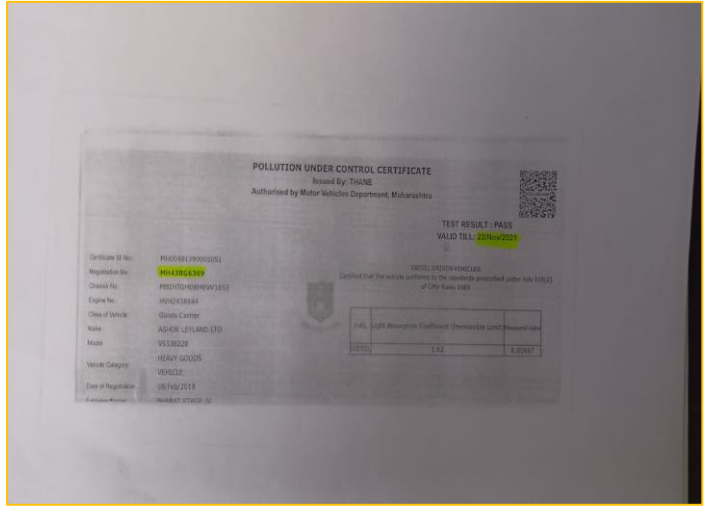
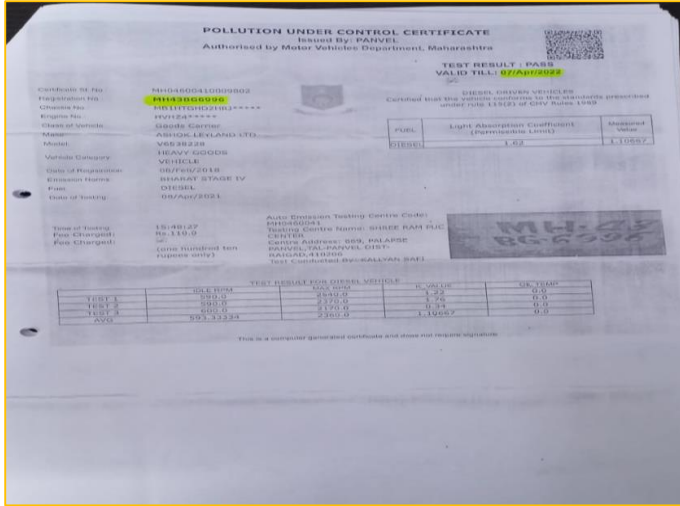
Annexure – 05: Construction Spoils and other hazardous material collect and dispose of in proper way to avoid water contamination.






Deep Tray Provision is being followed at site for concrete pump wash to prevent soil contamination.


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Annexure – 06: Good condition Vehicle used at site for bringing construction material and vehicle conform to pollution check certificate and applicable air and noise emission standards and should be operated only during non-peak hours.



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Annexure – 7: Ambient air and noise quality testing is being followed at site.



GREEN CIRCLE, INC.
 Integrated HSEQR Consulting Engineers, Scientists & Trainers
 (Recognized By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)
 (No. O - 1508 / 32 / 2007 - CPW)
 (ISO 9001, 14001 & OHSAS 18001 Certified Organization)

Report No: - GC1/V/LAB/EM-G012/20. SP/ Feb -00/0011 Date: 06.02.2021


ANALYSIS REPORT

Client Details		Sample Details	
Name	M/JL Capacit'e Infraprojects Limited	Sample Code	GC1/V/21 /CIL/C2/AA2
Address	CIDCO- Kharghar Bus Terminal Sector - 14, Near Raghunath Bihar, Kharghar Navi Mumbai - 410210	Location	Steel Yard
		Quantity	N/A
Sampling Done By	Mr. Vikram	Instruments	Respirable Dust Sampler & Fine Particulate Sampler
Date of Sampling	04/02/2021	Sampling Method	IS 5182 : Part 5 : 1975
Sample Received Date	05/02/2021	Date of Completion	06/02/2021
Date of Analysis	05/02/2021		

AMBIENT AIR ANALYSIS RESULTS

Sr. No.	Parameters	Unit	Result	National Ambient Air Quality Standards	Reference Method
1.	Particulate Matter (PM 10)	µg/m ³	67.3	100	IS 5182 : Part 23: 2006
2.	Particulate Matter (PM 2.5)	µg/m ³	26.9	60	NAAQS Guidelines
3.	Sulphur dioxide (SO ₂)	µg/m ³	6.2	80	IS 5182 : Part 2 : 2001
4.	Oxides of Nitrogen (NO _x)	µg/m ³	9.92	80	IS 5182 : Part 6 : 2006
5.	Carbon Monoxide CO	Mg/m ³	0.37	2.0	IS 5182 : Part 10 : 1999
6.	Ozone as O ₃	µg/m ³	BDL	100	NAAQS Guidelines
7.	Ammonia as NH ₃	µg/m ³	12.8	400	NAAQS Guidelines
8.	Lead as Pb	µg/m ³	BDL	1.0	NAAQS Guidelines
9.	Nickel as Ni	ng/m ³	BDL	20	NAAQS Guidelines
10.	Arsenic as As	ng/m ³	BDL	6.0	NAAQS Guidelines
11.	Benzene - C ₆ H ₆	µg/m ³	BDL	5.0	IS 5182(Part 11) : 2006
12.	Benzo (a) Pyrene	ng/m ³	BDL	1.0	Gas Chromatography

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



Authorized Signatory

- Analysis is subject to the condition in which the sample is received at our Laboratory.
- Reports cannot be used as an evidence anywhere including judicial purpose without our prior permission.
- Sample will be retained till one month from the date of sampling.

CORP. OFFICE & R & D: Green Empire (Anupushpani), Above AXIS Bank, Nr. Yash Complex, Gosh Main Road Vasodare 390021(Sujara) INDIA.
 Tel: +91-265-2371269 Cell: + 919208583835 Email: info@greencircleinc.com Website: www.greencircleinc.com



CAPACIT'E INFRAPROJECTS LIMITED	Environment Clearance Compliance Report		TATA CONSULTING ENGINEERS LIMITED TATA Consulting Engineers Ltd. - Hiten Sethi & Associates JV	HSA HITEN SETHI & ASSOCIATES
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Annexure - 08: Curing Compound used to reduce the water demand during construction.

CAPACIT'E	TATA CONSULTING ENGINEERS LIMITED TATA Consulting Engineers Ltd. - Hiten Sethi & Associates JV	HSA HITEN SETHI & ASSOCIATES	CIDCO WE MAKE CITIES
METHOD STATEMENT		Doc No: MST-CIL CIDCO/42	
CIDCO PMAY PACKAGE II PROJECTS		Rev-R0	
		Date of Rev: 5/05/2022	

**METHOD STATEMENT
FOR APPLICATION OF CURING COMPOUND TO RCC
MEMBERS**

[Make: SIKA BRAND]

**Project name- "Construction of EWS/LIG type dwelling units
(Package II), CIDCO"**

Contract number- C.A.No.: 01/CIDCO/CE(SP)/2019-20



Client- CIDCO

PMC- TCE-HSA JV


Contractor - CAPACIT'E INFRAPROJECT LTD

	Prepared by CIL	Reviewed by CIL	Reviewed by PMC	Approved by CIDCO
NAME	Arun Giriyan	Sunil Wagh	Ashok Salvi	
DESIGNATION	AVP-QA/QC	SR.PRESIDENT	PROJECT MANAGER	
SIGN				



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Annexure – 09 : Noise Level Monitoring is being followed at site.


 Document Title: Noise Monitoring
 Document No.: CAPL/HSR/905/23
 Rev.: 0
 Date:

Project: KHBT
 Engineer / Supervisor: Premnath Yadao
 Location: All areas
 Date: 15/03/2021

Sl. No.	Location / Area	Noise Level	Remarks
1)	Steel yard Haulc	72dB	OK
2)	Sl. Area	80dB	OK
3)	T-1 Area	65dB	OK
4)	T-2 Area	65dB	OK
5)	Tower crane Area	72dB	OK
6)	Office Area	72dB	OK
7)	QC Lab.	65dB	OK

Location in charge/ Supervisor:
 Name and Signature: P. N. Yadao

Safety Person:
 Name and Signature: Sushin Hawale

Review by Site in charge:
 [Signature]



Project

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Annexure – 10: Vehicle parked only inside of project.