Kirloskar Industries

20 January 2022

The Director
Regional Office (West Central Zone),
Ministry of Environment, Forest and Climate Change,
Ground Floor, East wing,
New Secretariat Building,
Civil lane, Nagpur-440001

Subject:	**Half-yearly Compliance Report: April 2021 to September 2021**
Project:	**Proposed IT Park project at Plot bearing S. No. 156A, 13/1B/C/D/13A CTS No.702, 677, 678, 679, 680 at Village Kothrud, Taluka Haveli, District Pune by Kirloskar Industries Limited.**
EC No.	**EC Letter no. SIA/MH/MIS/151544/2020 Dated 25th March, 2021**

Dear Sir,

We are submitting Half-yearly Compliance Report (hard & soft copy) in respect of the stipulated terms and conditions of 'Prior Environmental Clearance' as specified in 'Environment Clearance' Notification Clause No. 10(ii).

Thanking you,
Yours faithfully,
For M/s. Kirloskar Industries Limited.

KIRLOSKAR INDUSTRIES LTD. PUNE-08

Lokesh Gupta
Vice President- Project

Enclosure:
1. A hard copy of the compliance and monitoring report
2. A CD containing the same report

CC copy to:
1. Regional officer, Maharashtra Pollution Control Board,
2. Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai
3. Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai

Kirloskar Industries Limited
A Kirloskar Group Company

Regd. Office: Cello Platina, Office Number 801,
Fergusson College Road, Shivajinagar, Pune- 411005
Tel: +91 (20) 29704374
Fax: +91 (20) 29704374
Email: investorrelations@kirloskar.com
Website: www.kil.net.in
CIN: L70100PN1978PLC088972

Environmental Clearance Compliance Report

April 2021 to September 2021

Kirloskar Industries Limited
IT Park Project
at Kothrud, Pune

(Environmental Clearance Letter no. SIA/MH/MIS/151544/2020 dated 25th March 2021)

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Compliance Status of EC Conditions

(Environmental Clearance Letter no. SIA/MH/MIS/151544/2020 dated 25th March 2021)

No	Condition	Compliance	🗗	P
	Specific Conditions:			
A.	**SEAC Conditions**			
(i)	PP to submit details of CER	PP have submitted details of CER.		
(ii)	PP to submit details of disaster management plan incorporating disaster management committee, lightening arrester plan and budget.	PP complied with the conditions.		
(iii)	PP to submit copy of agreement with existing occupants agreeing for the new development after amalgamation of plots.	Not Applicable to our project.		
B.	**SEIAA Conditions**			
(i)	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.	PP will comply with the condition.		
(ii)	PP to submit all integrated services plan on layout.	PP complied with the condition		
(iii)	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.	PP will comply with the condition.		
(iv)	SEIAA after deliberation decided to grant Environment Clearance for FSI-72952 m2, Non- PSI- 74171 m2 and Total BUA-147123 (Plan Approval no-CC-1863/20, dated-25.02.2021)	Noted.		
	General condition:			
a)	**Construction Phase**			
(i)	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.	The solid waste generated during construction phase are properly collected and segregated and disposed on site for land filling after recovering recyclable material.		

No	Condition	Compliance	🗗	P
(ii)	Disposal of muck, Constriction spoils, including bituminous material during construction phase should 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 the approved sites with the approval of competent authority	PP will comply with the condition.		
(iii)	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board	Hazardous waste is not generated on site.		
iv	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.	PP have provided drinking water and sanitary facilities for construction workers.		
v	Arrangement shall be made that waste water and storm water do not get mixed.	PP will comply with the condition.		
Vi	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	PP will comply with the condition.		
vii	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	PP will comply with the condition		
viii	Permission to draw ground water for construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project	Ground water is not extract at site.		
ix	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	PP will comply with the condition.		
x	The Energy Conservation Building code shall be strictly adhered to	PP will comply with the condition.		

No	Condition	Compliance	🗗	P
xi	All the topsoil excavated during construction activities should be stored for use in horticulture I landscape development within the project site.	PP will comply with the condition.		
xii	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.	PP have used additional soil for levelling on project site		
xiii	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants	Ground water sample is tested from authorized laboratory.		
xiv	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.	PP will comply all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance		
xv	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.	PP will comply with the condition.		
Xvi	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.	PP will comply all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance		
xvii	Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately covered to avoid spillage/leakages	PP will comply with the condition.		

No	Condition	Compliance	🗗	P
Xviii	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	PP will comply with the condition. Monitoring reports are attached.	✓	
xix	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction 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 is preferred. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	PP will comply with the condition.		
xx	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 by a separate environment cell /designated person	PP will comply with the condition.		
B)	**Operation Phase**			
xxi	a) The solid waste generated should be properly collected and segregated. b) Wet waste 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. c) Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	PP will comply the condition in operation phase.		
I	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016	PP will comply with the condition in operation phase. E-Waste shall be disposed to authorized vendor.		

No	Condition	Compliance	🗗	P
II	a) 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. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of I 00% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. b) PP to give 100 % treatment to sewage/Liquid waste and explore the possibility to recycle at least 50% of water, Local authority should ensure this.	PP will comply with the condition in operation phase.		
III	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.	PP will comply with the condition.		
IV	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.	Noted.		
V	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	PP will comply with the condition		
VI	PP to provide adequate electric charging points for electric vehicles (EVs).	PP will comply with the condition.		

No	Condition	Compliance	🗗	P
VII	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	PP comply with the condition		
VIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	PP will comply with the condition		
IX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes	PP will comply with the condition		
X	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	PP complied with the condition		
XI	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 & 1st December of each calendar year	Here, PP are submitting the half yearly compliance report for the period of April 2021 to September 2021		
XII	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.	PP complied with the condition		

No	Condition	Compliance	🗗	P
XIII	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. S02, NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	PP comply with the condition		
C	**General EC Conditions**			
I	PP has to strictly abide by the conditions stipulated by SEAC& SEIAA	Noted by PP.		
II	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 Enviro1llllent department before start of any construction work at tl1e site.	PP will comply with the condition. PP have obtained consent to Establish having from MPCB.		
III	Under the provisions of Environmental (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining Environmental clearance	Noted by PP.		
IV	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	PP will comply with the condition.		

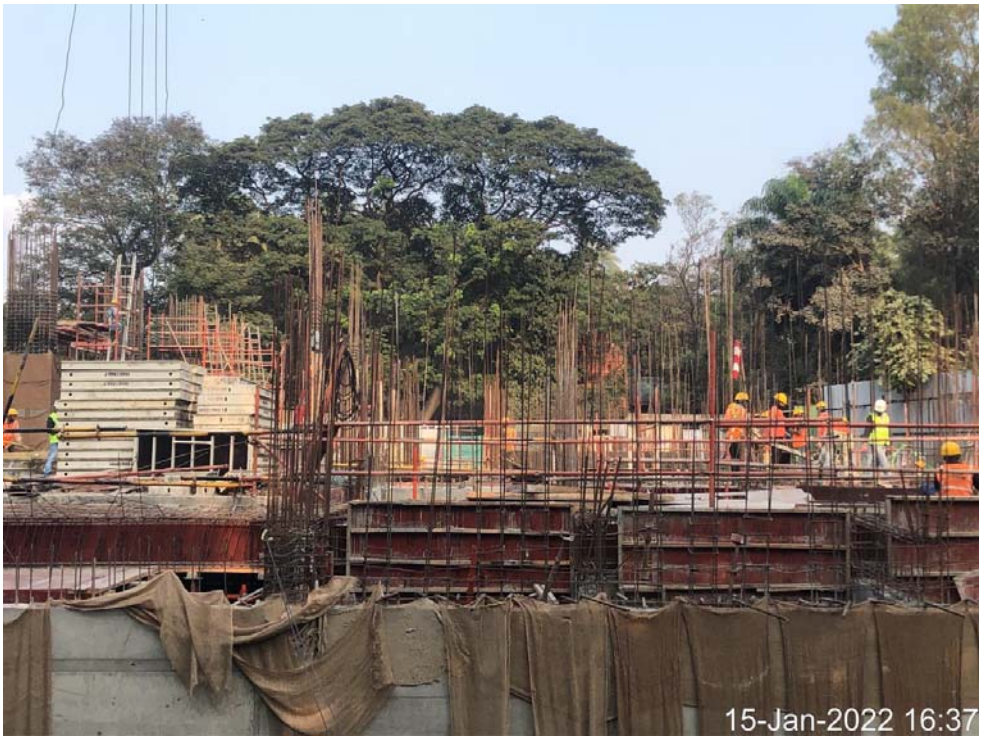
No	Condition	Compliance	🗗	P
V	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail	PP will comply with the condition.		
VI	No further Expansion or modifications, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of tile SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference shall be made to the SEIAA. as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	PP will comply with the condition.		
VII	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.	Not Applicable.		
4.	The environmental clearance is being issued 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 whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to tile project proponent in the case filed against him, if any or action initiated under EP Act	Noted by PP.		

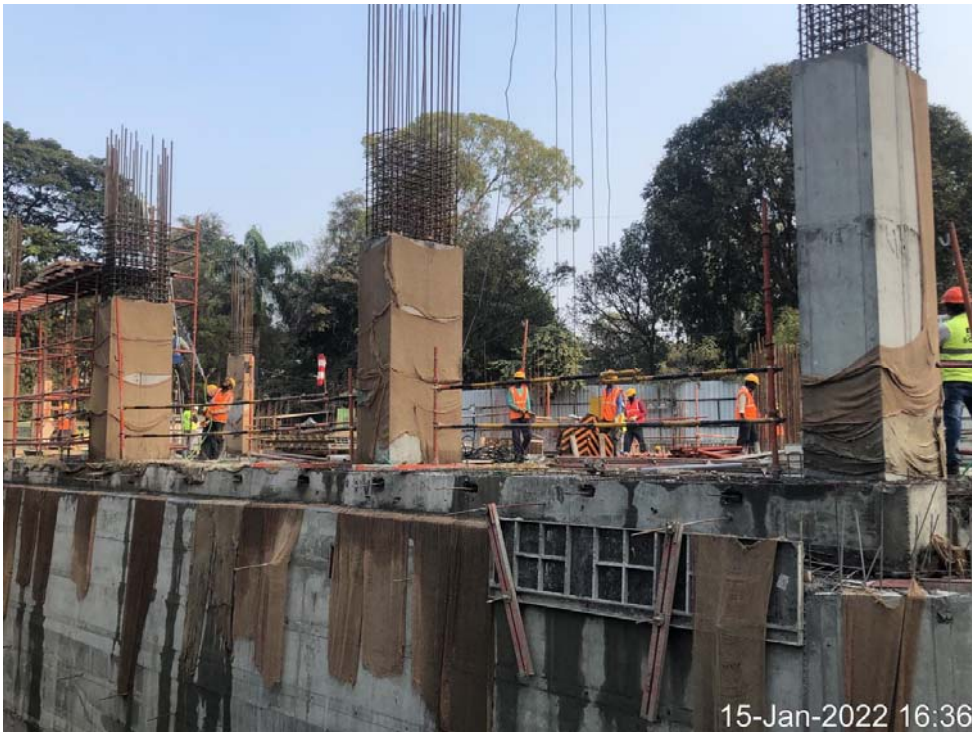
No	Condition	Compliance	🗗	P
5.	This Environmental Clearance is issued purely from an environmental point of view without prejudice to any court cases and all other applicable permissions/ NOCs shall be obtained before starting proposed work at site	Noted by PP.		
6.	In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986	Noted by PP.		
7.	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.	As per Notification received on dated 29.04.2015 validity of EC is extended up to 7 years for generic.		
8.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) 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.	Noted by PP.		
9.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted by PP.		

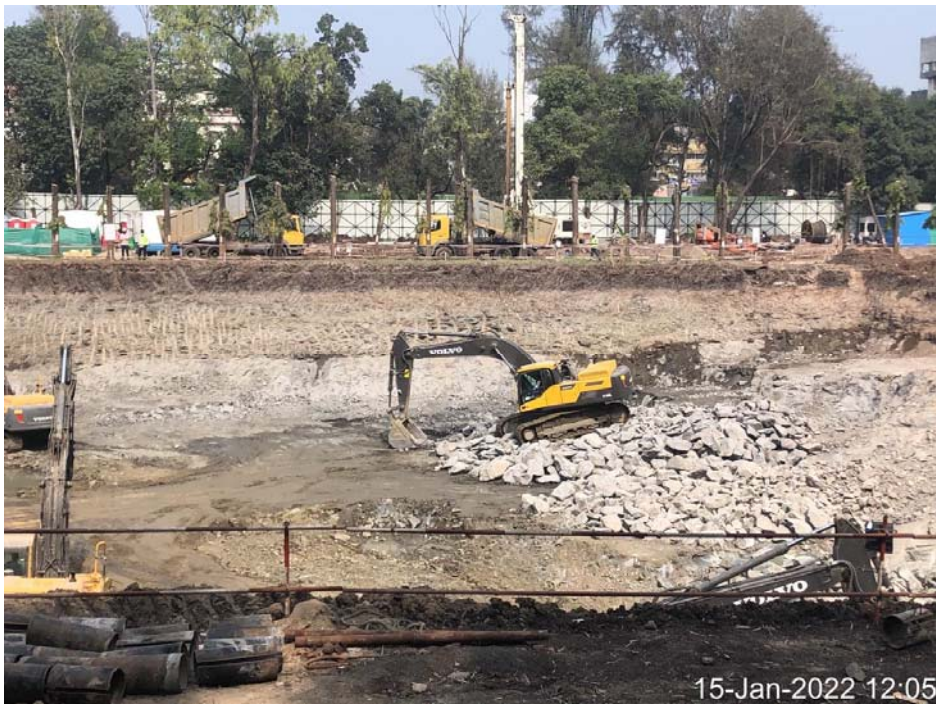
Annexure I

SITE PHOTOGRAPHS

Site Photographs






15-Jan-2022 12:05


15-Jan-2022

Annexure II

ENVIRONMENT MONITROING REPORTS

Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor
Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG10721-210731-SA-KIL-PUNE			**Date:** 31.07.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Ground Water	**Sample Collected by**	Laboratory
Sampling Location	Surrounding Area of Project Site (Dug Well)	**Sample Quantity/Packing**	2 L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X No. Sterilised Glass Bottle
Date of Sampling	21.07.2021	**Date of Receipt of Sample**	22.07.2021
Sampling Procedure	IS:3025(Part I): 1987 RA2003, APHA 23rd Ed. 2017, 1060-B, 1-40; 9060A		
Date of Start of Analysis	22.07.2021	**Date of Completion of Analysis**	30.07.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Ground Water)				
1.	Colour	Hazen	<1	APHA 23rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3.	pH	-	7.6	APHA 23rd Ed. 2017, 4500-H^+-B, 4-95
4.	Turbidity	NTU	1.3	APHA 23rd Ed. 2017, 2130-B, 2-13
5.	Total Dissolved Solids	mg/L	470	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
6.	Alkalinity Total (as $CaCO_3$)	mg/L	336	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
7.	Chloride (as Cl)	mg/L	46.0	APHA 23rd Ed. 2017, 4500-Cl-B, 4-75
8.	Sulphate (as SO_4)	mg/L	33.9	APHA 23rd Ed. 2017, 4500- SO_4-E, 4-199
9.	Nitrate (as NO_3)	mg/L	6.29	APHA 23rd Ed. 2017, 4500-NO_3, B 4-127
10.	Total Hardness (as $CaCO_3$)	mg/L	340	APHA 23rd Ed. 2017, 2340-C, 2-48
11.	Calcium (as Ca)	mg/L	72.0	APHA 23rd Ed. 2017, 3500-Ca-B, 3-69
12.	Magnesium (as Mg)	mg/L	38.9	APHA 23rd Ed. 2017, 3500-Mg- B, 3-86

ULR- TC748721000010067F

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Report No.10721 cont..

Sr. No.	Parameter	Unit	Result	Method Reference
13.	Fluoride (as F)	mg/L	0.398	APHA 23rd Ed. 2017,4500-F, D, 4-90
14.	Cyanide (as CN)	mg/L	N.D.	APHA 23rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
15.	Anionic detergents as MBAS	mg/L	N.D.	APHA 23rd Ed. 2017, 5540-C, 5-55
16.	Phenolic compounds (as C_6H_5OH)	mg/L	N.D.	APHA 23rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
17.	Iron Total (as Fe)	mg/L	0.199	APHA 23rd Ed. 2017,3111-B, 3-20
18.	Manganese (as Mn)	mg/L	<0.04	APHA 23rd Ed. 2017, 3111-B, 3-20
19.	Lead (as Pb)	mg/L	N.D.	APHA 23rd Ed. 2017,3111-B, 3-20
20.	Copper (as Cu)	mg/L	N.D.	APHA 23rd Ed. 2017, 3111-B, 3-20
21.	Arsenic (as As)	mg/L	N.D.	APHA 23rd Ed. 2017, 3114-C, 3-40
22.	Mercury (as Hg)	mg/L	N.D.	APHA 23rd Ed. 2017,3112-B, 3-25
23.	Zinc (as Zn)	mg/L	0.045	APHA 23rd Ed. 2017,3111-B, 3-20
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	APHA 23rd Ed. 2017, 3500- Cr-B, 3-71
25.	Cadmium (as Cd)	mg/L	N.D.	APHA 23rd Ed. 2017,3111-B, 3-20
Discipline: Biological Testing; Product Group: Water (Ground Water)				
26.	Total Coliforms	MPN/ 100 mL	5.1	APHA 23rd Ed. 2017, 9221-B & C, 9-69, 9-72
27.	E-Coli	MPN/ 100 mL	<1.1	APHA 23rd Ed. 2017, 9221-B, C & G, 9-69, 9-72 & 9-80
Remarks: N.D. – Not Detected.				

ULR- TC748721000010067F

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER
(Chemical Testing)

Shital N. Lakhorkar
GROUP INCHARGE
(Biological Testing)

Note:
1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

TC-7487

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor
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Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG10720-210730-SA-KIL-PUNE			**Date:** 30.07.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Noise Level Monitoring	**Sample Collected by**	NA
Date of Sampling	20.07.2021		
Sampling Procedure	IS 9876:1981		

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Noise)

Location	Time	Result	
		Sound Level L_{eq}dB (A) Fast Response	**Sound Level L_{eq}dB (A) Slow Response**
Project Site			
Day	10:30	54.7	53.8
Night	22:30	41.4	40.7

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

Area Code	Category of Area /Zone	Limit in dB(A) weighted scale	
		Day Time (6.00a.m. to 10.00 p.m.)	**Night Time** (10.00 p.m. to 6.00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER

MAHABAL ENVIRO ENGINEERS P. LTD.

MEEPL

Note:
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TC 7487

ULR- TC748721000010066F

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Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

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Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG10719-210730-SA-KIL-PUNE			**Date:** 30.07.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Ambient Air Quality Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Project Site	**Sample Quantity/Packing**	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mLX 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 2 X 3 No. CO:2L X 3No.Gas Bladder
Date of Sampling	20.07.2021 to 21.07.2021	**Date of Receipt of Sample**	22.07.2021
Sampling Procedure	As per method reference		
Date of Start of Analysis	22.07.2021	**Date of Completion of Analysis**	28.07.2021

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Location- Project Site		**Duration of Survey** -24 hours		
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Sulphur Dioxide (SO_2)	$\mu g/m^3$	11.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	18.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	46	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM2.5	$\mu g/m^3$	17	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No 15-30

ULR- TC748721000010065F

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Report No.10719 cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Ozone (O_3)	$\mu g/m^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	1.12	4	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
Ammonia (NH_3)	$\mu g/m^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	$\mu g/m^3$	1.17	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m^3	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	<0.3	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	3.80	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

Remarks: TWA - Time Weighted Average,
#- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER

MAHABAL ENVIRO ENGINEERS P. LTD.

MEEPL

ULR- TC748721000010065F

Note:
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Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG11334-210818-SA-KIL-PUNE			**Date:** 18.08.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Ambient Air Quality Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Project Site	**Sample Quantity/Packing**	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mLX 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 2 X 3 No. CO:2L X 3No.Gas Bladder
Date of Sampling	06.08.2021 to 07.08.2021	**Date of Receipt of Sample**	08.08.2021
Sampling Procedure	As per method reference		
Date of Start of Analysis	08.08.2021	**Date of Completion of Analysis**	12.08.2021

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Location- Project Site		**Duration of Survey** -24 hours		
Sulphur Dioxide (SO_2)	$\mu g/m^3$	10.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	$\mu g/m^3$	14.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	$\mu g/m^3$	39	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM2.5	$\mu g/m^3$	13	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30

ULR- TC748721000010647F

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Report No.11334 cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Ozone (O_3)	$\mu g/m^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	1.12	4	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
Ammonia (NH_3)	$\mu g/m^3$	<20	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	$\mu g/m^3$	1.28	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m^3	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	0.366	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	3.38	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

Remarks: TWA - Time Weighted Average,
#- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER

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Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG11335-210818-SA-KIL-PUNE			**Date:** 18.08.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Noise Level Monitoring	**Sample Collected by**	NA
Date of Sampling	06.08.2021		
Sampling Procedure	IS 9876:1981		

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Noise)

Location	Time	Result	
		Sound Level L_{eq}dB (A) Fast Response	**Sound Level L_{eq}dB (A) Slow Response**
Project Site			
Day	10:15	53.9	52.8
Night	22:30	40.7	39.6

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

Area Code	Category of Area /Zone	Limit in dB(A) weighted scale	
		Day Time (6.00a.m. to 10.00 p.m.)	**Night Time** (10.00 p.m. to 6.00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

----------END----------

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER

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Test Report

Report No.: ME-NG11336-210819-SA-KIL-PUNE			**Date:** 19.08.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Ground Water	**Sample Collected by**	Laboratory
Sampling Location	Surrounding Area of Project Site	**Sample Quantity/Packing**	2 L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X No. Sterilised Glass Bottle
Date of Sampling	07.08.2021	**Date of Receipt of Sample**	08.08.2021
Sampling Procedure	IS:3025(Part I): 1987 RA2003, APHA 23rd Ed. 2017, 1060-B, 1-40; 9060A		
Date of Start of Analysis	08.08.2021	**Date of Completion of Analysis**	18.08.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Ground Water)				
1.	Colour	Hazen	<1	APHA 23rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3.	pH	-	8.0	APHA 23rd Ed. 2017, 4500-H^+-B, 4-95
4.	Turbidity	NTU	2.0	APHA 23rd Ed. 2017, 2130-B, 2-13
5.	Total Dissolved Solids	mg/L	433	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
6.	Alkalinity Total (as $CaCO_3$)	mg/L	330	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
7.	Chloride (as Cl)	mg/L	45.0	APHA 23rd Ed. 2017, 4500-Cl-B, 4-75
8.	Sulphate (as SO_4)	mg/L	33.4	APHA 23rd Ed. 2017, 4500- SO_4-E, 4-199
9.	Nitrate (as NO_3)	mg/L	6.69	APHA 23rd Ed. 2017, 4500-NO_3, B 4-127
10.	Total Hardness (as $CaCO_3$)	mg/L	314	APHA 23rd Ed. 2017, 2340-C, 2-48
11.	Calcium (as Ca)	mg/L	68.9	APHA 23rd Ed. 2017, 3500-Ca-B, 3-69
12.	Magnesium (as Mg)	mg/L	34.5	APHA 23rd Ed. 2017, 3500-Mg- B, 3-86

ULR- TC748721000010649F

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Report No.11336 cont...

Sr. No.	Parameter	Unit	Result	Method Reference
13.	Fluoride (as F)	mg/L	0.412	APHA 23rd Ed. 2017,4500-F, D, 4-90
14.	Cyanide (as CN)	mg/L	N.D.	APHA 23rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
15.	Anionic detergents as MBAS	mg/L	N.D.	APHA 23rd Ed. 2017, 5540-C, 5-55
16.	Phenolic compounds (as C_6H_5OH)	mg/L	N.D.	APHA 23rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
17.	Iron Total (as Fe)	mg/L	0.290	APHA 23rd Ed. 2017,3111-B, 3-20
18.	Manganese (as Mn)	mg/L	<0.04	APHA 23rd Ed. 2017, 3111-B, 3-20
19.	Lead (as Pb)	mg/L	N.D.	APHA 23rd Ed. 2017,3111-B, 3-20
20.	Copper (as Cu)	mg/L	N.D.	APHA 23rd Ed. 2017, 3111-B, 3-20
21.	Arsenic (as As)	mg/L	N.D.	APHA 23rd Ed. 2017, 3114-C, 3-40
22.	Mercury (as Hg)	mg/L	N.D.	APHA 23rd Ed. 2017,3112-B, 3-25
23.	Zinc (as Zn)	mg/L	0.032	APHA 23rd Ed. 2017,3111-B, 3-20
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	APHA 23rd Ed. 2017, 3500- Cr-B, 3-71
25.	Cadmium (as Cd)	mg/L	N.D.	APHA 23rd Ed. 2017,3111-B, 3-20
Discipline: Biological Testing; Product Group: Water (Ground Water)				
26.	Total Coliforms	MPN/ 100 mL	5.1	APHA 23rd Ed. 2017, 9221-B & C, 9-69, 9-72
27.	E-Coli	MPN/ 100 mL	Absent	APHA 23rd Ed. 2017, 9221-B, C & G, 9-69, 9-72 & 9-80
Remarks: N.D. – Not Detected.				

ULR- TC748721000010649F

----------END----------

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER
(Chemical Testing)

Shital N. Lakhorkar
GROUP INCHARGE
(Biological Testing)

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Test Report

Report No.: ME-NG12739-210917-SA-KIL-PUNE			**Date:** 17.09.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Ground Water	**Sample Collected by**	Laboratory
Sampling Location	Surrounding Area of Project Site	**Sample Quantity/Packing**	2 L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X No. Sterilised Glass Bottle
Date of Sampling	04.09.2021	**Date of Receipt of Sample**	05.09.2021
Sampling Procedure	IS:3025(Part I): 1987 RA2003, APHA 23rd Ed. 2017, 1060-B, 1-40; 9060A		
Date of Start of Analysis	05.09.2021	**Date of Completion of Analysis**	16.09.2021

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Ground Water)				
1.	Colour	Hazen	<1	APHA 23rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2006
3.	pH	-	8.1	APHA 23rd Ed. 2017, 4500-H^+-B, 4-95
4.	Turbidity	NTU	1.3	APHA 23rd Ed. 2017, 2130-B, 2-13
5.	Total Dissolved Solids	mg/L	270	IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)
6.	Alkalinity Total (as $CaCO_3$)	mg/L	152	IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1
7.	Chloride (as Cl)	mg/L	25.3	APHA 23rd Ed. 2017, 4500-Cl-B, 4-75
8.	Sulphate (as SO_4)	mg/L	35.8	APHA 23rd Ed. 2017, 4500- SO_4-E, 4-199
9.	Nitrate (as NO_3)	mg/L	16.0	APHA 23rd Ed. 2017, 4500-NO_3, B 4-127
10.	Total Hardness (as $CaCO_3$)	mg/L	188	APHA 23rd Ed. 2017, 2340-C, 2-48
11.	Calcium (as Ca)	mg/L	24.8	APHA 23rd Ed. 2017, 3500-Ca-B, 3-69
12.	Magnesium (as Mg)	mg/L	30.6	APHA 23rd Ed. 2017, 3500-Mg- B, 3-86

ULR- TC748721000011975F

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Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Sr. No.	Parameter	Unit	Result	Method Reference
13.	Fluoride (as F)	mg/L	0.393	APHA 23rd Ed. 2017,4500-F, D, 4-90
14.	Cyanide (as CN)	mg/L	N.D.	APHA 23rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
15.	Anionic detergents as MBAS	mg/L	N.D.	APHA 23rd Ed. 2017, 5540-C, 5-55
16.	Phenolic compounds (as C_6H_5OH)	mg/L	N.D.	APHA 23rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
17.	Iron Total (as Fe)	mg/L	0.178	IS 3025 (Part 2) 2019
18.	Manganese (as Mn)	mg/L	<0.01	IS 3025 (Part 2) 2019
19.	Lead (as Pb)	mg/L	<0.01	IS 3025 (Part 2) 2019
20.	Copper (as Cu)	mg/L	0.011	IS 3025 (Part 2) 2019
21.	Arsenic (as As)	mg/L	N.D.	APHA 23rd Ed. 2017, 3114-C, 3-40
22.	Mercury (as Hg)	mg/L	N.D.	APHA 23rd Ed. 2017,3112-B, 3-25
23.	Zinc (as Zn)	mg/L	0.040	IS 3025 (Part 2) 2019
24.	Chromium Hexa (as Cr^{6+})	mg/L	N.D.	APHA 23rd Ed. 2017, 3500- Cr-B, 3-71
25.	Cadmium (as Cd)	mg/L	N.D.	IS 3025 (Part 2) 2019
Discipline: Biological Testing; Product Group: Water (Ground Water)				
26.	Total Coliforms	MPN/ 100 mL	5.1	APHA 23rd Ed. 2017, 9221-B & C, 9-69, 9-72
27.	E-Coli	MPN/ 100 mL	Absent	APHA 23rd Ed. 2017, 9221-B, C & G, 9-69, 9-72 & 9-80
Remarks: N.D. – Not Detected.				

ULR- TC748721000011975F

----------END----------

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER
(Chemical Testing)

Shital N. Lakhorkar
GROUP INCHARGE
(Biological Testing)

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Test Report

Report No.: ME-NG12738-210915-SA-KIL-PUNE			**Date:** 15.09.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Noise Level Monitoring	**Sample Collected by**	NA
Date of Sampling	03.09.2021		
Sampling Procedure	IS 9876:1981		

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Noise)

Location	Time	Result	
		Sound Level L_{eq}dB (A) Fast Response	**Sound Level L_{eq}dB (A) Slow Response**
Project Site			
Day	11:05	52.4	51.3
Night	22:20	40.6	39.5

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

Area Code	Category of Area /Zone	Limit in dB(A) weighted scale	
		Day Time (6.00a.m. to 10.00 p.m.)	**Night Time** (10.00 p.m. to 6.00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Hanish Mendhi
TECHNICAL MANAGER

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Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG12737-210915-SA-KIL-PUNE			**Date:** 15.09.2021
Name and Address of Customer	**KIRLOSKAR IND. LTD.** Sr.No.156A, B/IBk/D/13A, CTSNo.702,677,678,679,680 Kothrud, Haveli, Pune		**Order Reference** WO/KIL/KOTPCA/CACONSU/ 18-19/3 of June 11, 2020 Date of Issue 05.04.2021
Sample Description/Type	Ambient Air Quality Monitoring	**Sample Collected by**	Laboratory
Sampling Location	Project Site	**Sample Quantity/Packing**	PM_{10}, B(a), Ni, As, Pb: Filter Paper 1 X 3 No. $PM_{2.5}$: Filter Paper 1 X 1 No. SO_2:30 mL X 6 No. PVC Bottle NO_2:30 mL X 6 No. PVC Bottle NH_3:10 mLX 24 No. PVC Bottle O_3:10 mL X 24 No. PVC Bottle Charcoal Tubes: 2 X 3 No. CO:2L X 3No.Gas Bladder
Date of Sampling	03.09.2021 to 04.09.2021	**Date of Receipt of Sample**	05.09.2021
Sampling Procedure	As per method reference		
Date of Start of Analysis	05.09.2021	**Date of Completion of Analysis**	11.09.2021

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Location- Project Site		**Duration of Survey** -24 hours		
Sulphur Dioxide (SO_2)	µg/m³	15.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO_2)	µg/m³	19.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM_{10}	µg/m³	56	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM2.5	µg/m³	21	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30

ULR- TC748721000011973F

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Continuation Sheet

Report No.12737 cont...

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Ozone (O_3)	$\mu g/m^3$	<19.6	180	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34
Lead (as Pb)	$\mu g/m^3$	<0.02	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Carbon Monoxide (CO)	mg/m^3	1.02	4	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)
Ammonia (NH_3)	$\mu g/m^3$	20.3	400	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39
Benzene (C_6H_6)	$\mu g/m^3$	1.18	05	IS 5182 (Part 11): 2006
Benzo(a)Pyrene (Particulate phase only)	ng/m^3	<0.5	01	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47
Arsenic (as As)	ng/m^3	0.31	06	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55
Nickel (as Ni)	ng/m^3	<3	20	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55

Remarks: TWA - Time Weighted Average,
#- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM_{10}, $PM_{2.5}$, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

----------END----------

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER

MAHABAL ENVIRO ENGINEERS PVT. LTD.

MEEPL

ULR- TC748721000011973F

Note:
1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

TC-7487

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Annexure III

ENVIRONMENT CLEARANCE LETTER

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/MIS/151544/2020
Environment & Climate
Change Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.
Date: 25 .03.2021.

To
M/s. Kirloskar Industries Limited.
S. No. 156A, 13/1B/C/D/13A
CTS No.702, 677, 678, 679, 680,
Kothrud, Haveli, Pune.

Subject : Environment Clearance for "IT Park project" at S. No. 156A, 13/1B/C/D/13A CTS No.702, 677, 678, 679, 680, Kothrud, Haveli, Pune by M/s. Kirloskar Industries Limited.

Reference : Application no. SIA/MH/MIS/151544/2020

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-3 in its 113th meeting under screening category 8 (a) B2 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 216th meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-

Proposal Number	**SIA/MH/MIS/151544/2020**
Name of Project	Proposed IT Park project at Village Kothrud, Taluka Haveli, District Pune by Kirloskar Industries Limited.
Project Category	8(a), B2
Type of Institution	Private
Name of Project Proponent	Kirloskar Industries Limited. Mr. Lokesh Gupta(Authorized Signatory) 801, 8th floor, Cello Platina, FC road, Pune-411005
Consultant	Mahabal Enviro Engineers Pvt. Ltd. QCI NABET Re-Assessment on 12.01.2018
Applied for	New Greenfield project
Details of previous EC	Not applicable
Location of project	Plot bearing S. No. 156A, 13/1B/C/D/13A CTS No.702, 677, 678, 679, 680, Village Kothrud, Taluka Haveli, District Pune
Latitude and Longitude	18°30'07.14"N, 73°49'08.22"E
Total Plot area (m^2)	24,464 m^2

Deductions (m^2)	1,292 m^2		
Net Plot Area (m^2)	23,172 m^2		
Proposed FSI Area (m^2)	72,952 m^2		
Proposed Non FSI Area (m^2)	74,171 m^2		
Proposed Total BUA area (	1,47,123 m^2		
TBUA (m^2) approved by Planning Authority till date	Approval is in process.		
Total ground coverage (m^2) & %	11,695 m^2 & 50 % of total net plot area		
Total project cost (Rs.)	Rs.546,00,00,000/-		
Details of Building Configuration	Building: IT Park; Configuration: B2 + B2 Mezz. + B1+ B1 Mezz.+ Gr. + Gr. Mezz. + Po. +Po. Mezz. + 16 floors; Height (m): 81.8 m		
Total number of tenements	No. of tenement: NA nos. No. of offices: 14 Retail + 62 Office + 6 nos. of Cultural Hall		
Total Water Requirement			
	Dry Season	Wet Season	
Fresh water (in m^3/day)	238 m^3/day	238 m^3/day	
Recycled water (Flushing)	191 m^3/day	191 m^3/day	
Recycled water (Gardening)	5 m^3/day	3 m^3/day	
Swimming pool	NA	NA	
Total water requirement	429 m^3/day	429 m^3/day	
Firefighting (Underground water tank)	400 m^3	400 m^3	
Firefighting (Overhead water tank)	60 m^3	60 m^3	
Excess treated water	7 m^3/day	10 m^3/day	
Source of water	Pune Municipal Corporation		
Rain Water Harvesting (RWH)			
i) Level of the ground water table	Ground Water Table: Summer Season – 2 m to 5.5 m (Average 4 m) Rainy Season – 1 m to 4 m (Average 2 m) Winter Season – 1.5 m to 5 m (Average 3 m)		
ii) Size and no of RWH tank(s) and Quantity	RWH tank capacity: 272 m^3 Size: Tank 1 (100 m^3) – 4.5m x 7.5 m Tank 2 (172 $m^{3)}$ - 4.0 m x10.8 m		
iii) Quantity of recharge pits proposed	7 nos. of recharge pit		
iv) Size of the recharge pit	2.5 m x 2.5 m x 2 m		
v) Details of UGT tanks if any:	Domestic UG tank capacity: 348 m^3 Flushing UG tank capacity: 191m^3 Fire UG tank capacity: 400 m^3		
Sewage and waste water Demand			

i) Sewage generation in KLD		388 m^3/day
ii) STP technology		Sequential Batch (SBR)
iii) No. and Capacity of STP		1 no. x 400 m^3/day
Solid Waste Management during Construction phase:		
i) Dry waste		-
ii) Wet waste		-
iii)Construction Waste generation		2,40,000 m^3 excavation quantity
Solid Waste Management during operation Phase:		
i) Dry waste	1,616 kg/day	Handed over to authorized recycler for further handling and purpose
ii) Wet waste	1,226 kg/day	Through Organic Waste Convertor. Generated manure will be used for gardening
iii) Hazardous waste	NA	NA
iv)Biomedical waste	NA	NA
v) E Waste	9 kg/day	E waste – Handed over to authorized recyclers for further treatment.
vi) Inert waste	215 kg/day	Handed over to authorized recyclers for further treatment.
vi) STP Sludge (dry)	4 kg/day	Will be used as manure for gardening purpose

Green Belt Development	
Total RG area	2,500 m^2
Existing trees on plot	388 nos.
Number of trees to be retained	175 nos.
No of trees to be transplanted off-site/cut	98 nos.
Number of trees to be transplanted from existing trees within site	115 nos.

Power requirement	
1. **Source of power supply**	Maharashtra State Electricity Distribution Company Ltd.
2. **During Construction Phase: (Demand Load)**	660 kVA
3. **During Operation phase (Connected Load)**	12454 kVA
4. **During Operation phase (Demand Load)**	8050 kVA
5. **Transformer**	3 nos. x 2000 kVA, 3 nos. x 1600 kVA
6. **DG set**	10 nos. x 1010 kVA
7. **Fuel Used**	Diesel

Details of Energy saving

Sr.	**Energy Conservation Measures**	**Quantity**
1.	Energy Saved Per Day due to CFL lamp	2%
2.	Energy Saved Per Day due to LED Lights	10%
3.	Energy Saved Per Day due to electronic ballast	2%

4.	Energy Saved Per Day due to VFD	3%
5.	Energy Saved Per Day due to Solar PV	1%
6.	Overall Energy Saving	18%

Environmental Management plan budget during Construction phase

Sr.	Type	Details	Cost (.Lacs)
1.	Air Environment	Water for dust suppression & for construction	36
2.	Site sanitation & Health Safety	Sanitation Disinfection, Safety Net, Noise Barrier	50
3.	Environment Monitoring	Ambient air, drinking water, noise and soil testing on monthly basis.	15
4.	Disinfection	Cleaning and maintaining the site	25
5.	Health check up	Monthly health check-up at site and medicines.	35
	Total		161

Environmental Management plan budget during Operation phase

Sr.	Component	Details	Capital cost Rs. In Lacs	Operational and maintenance cost (Rs. In Lacs/yr)
1.	Storm Water	Storm water channel will connect up to nalla line	113	14
2.	Sewage Treatment plant	1 no. of STP having capacity 400 m^3/day	78	4
3.	Rain Water Harvesting	7 nos. of recharge pits	14	0.56
4.	Swimming pool	-	-	-
5.	Solid waste	Cost for Treatment of biodegradable garbage in OWC (1 no.)	27.5	4
6.	Green belt development	115 nos. of trees to be planted. Developed and maintained landscape area is 2,500 m^2	121	4.84
7.	Energy saving	Solar PV Panels for electricity generation	40	2
8.	Environmental Monitoring	Monitoring and analysis of Air, Water, Noise, Soil, surface water, STP treated water etc.	MoEF Approved Lab	5
9.	Disaster Management	-	1,981	112.2

Traffic Management:

ii) Number and area of basement	4 nos. of basement levels with total area 40,365 m^2
ii) Total Parking area	51,008 m^2
iii) Area per car	-
iv) Number of 2-Wheelers as approved by competent authority	Scooters- 3,994 Nos. Cycles-1,079 Nos.
v) Number of 4-Wheelers as approved by competent authority	1,586 Nos.

3. The proposal has been considered by SEIAA in its 216th meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

Specific Conditions:

A. SEAC Conditions-

I. PP to submit details of CER

II. PP to submit details of disaster management plan incorporating disaster management committee, lightening arrester plan and budget.

III. PP to submit copy of agreement with existing occupants agreeing for the new development after amalgamation of plots.

B. SEIAA Conditions-

I. PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.

II. PP to submit all integrated services plan on layout.

III. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.

IV. SEIAA after deliberation decided to grant Environment Clearance for FSI-72952 m2, Non-FSI- 74171 m2 and Total BUA-147123 (Plan Approval no-CC-1863/20, dated-25.02.2021)

General Conditions:

a) Construction Phase :-

I. 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.

II. Disposal of muck, Construction spoils, including bituminous material during construction phase should 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 the approved sites with the approval of competent authority.

III. Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.

IV. 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.

V. Arrangement shall be made that waste water and storm water do not get mixed.

VI. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.

VII. The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.

VIII. Permission to draw ground water for construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.

IX. 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.

X. The Energy Conservation Building code shall be strictly adhered to.

XI. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.

XII. 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.

XIII. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

XIV. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.

XV. 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.

XVI. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.

XVII. Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately covered to avoid spillage/leakages.

XVIII. 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.

XIX. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction 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 is preferred. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.

XX. 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 by a separate environment cell /designated person.

B) Operation phase:-

XXI. a) The solid waste generated should be properly collected and segregated. b) Wet waste 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. c) Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.

I. E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.

II. a) 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. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. b) PP to give100 % treatment to sewage /Liquid waste and explore the possibility to recycle at least 50 % of water, Local authority should ensure this.

III. Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.

IV. 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.

V. 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.

VI. PP to provide adequate electric charging points for electric vehicles (EVs).

VII. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

VIII. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

IX. 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.

X. 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

XI. 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 & 1st December of each calendar year.

XII. 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.

XIII. 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. SO2, NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

C) General EC Conditions:-

I. PP has to strictly abide by the conditions stipulated by SEAC& SEIAA.

II. 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.

III. 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.

IV. 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.

V. 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 and shall also be sent to the respective Regional Offices of MoEF by e-mail.

VI. No further Expansion or modifications, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference shall be made to the SEIAA. as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

VII. 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.

4. The environmental clearance is being issued 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 whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. This Environment Clearance is issued purely from an environment point of view without prejudice to any court cases and all other applicable permissions/ NOCs shall be obtained before starting proposed work at site.

6. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any

intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) 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.

9. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Manisha Patankar-Mhaiskar
(Member Secretary, SEIAA)

Copy to:

1. Chairman, SEIAA, Mumbai.
2. Secretary, MoEF & CC, IA- Division MOEF & CC
3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
4. Regional Office MoEF & CC, Nagpur
5. District Collector, Pune.
6. Commissioner, Pune Municipal Corporation
7. Regional Officer, Maharashtra Pollution Control Board, Pune.

Annexure IV

ESR

Environmental Status Report

As per EC condition (LIV)

April 2021 to September 2021

for

Kirloskar Industries Limited.

“IT Park Project”

at Village Kotharud,
District Pune, Maharashtra

INDEX

Environmental Status Report

Introduction

Kirloskar Industries Limited is developing IT Park Project at Sr. No 156A, 13/1B/C/D/13A CTS No. 702, 677, 678, 679, 680 at village-Kotharud, Taluka-HAveli, District-Pune.
Environmental Clearance is obtained EC file no SIA/MH/MIS/151544/2020 dated 25.03.2021 for the total plot area of 24,464 m^2.

Project proponent information

Name	**Kirloskar Industries Limited.** **Ms. Lokesh Gupta**
Address	801, 8th floor, Cello Platina, FC Road, Pune-411005
Telephone	
Fax	
Email ID	Lokesh.Gupta@kirloskar.com

Plot area details

Details	Total	Unit
Total Plot area	24464	m2
Proposed FSI Area	72952	m2
Proposed Non-FSI area	74171	m2
Total Construction area	147123	m2

Present status

PP have started the construction in 2021. Construction details are given below,

Plot B – Basement 3 slab completed. Ground floor work in progress

Construction activity

Table 1: Environmental Services progress status

Sr.	Details	Status
1.	DG set	1 no. DG set has provided onsite during construction phase
2.	STP work	Not Started yet. PP have proposed 400 m^3/day STP.
3.	Solid waste management: OWC details	In planning Stage for proposed building.

Sr.	Details	Status
4.	Parking	Parking facility within project site provided at construction phase.
5.	Labour camp	PP has provided labour camp with all necessary hygienic and sanitary facilities.
6.	Excavation details	Excavation for plot B is completed
7.	Debris details and its management	The excavated material is being used for backfilling, Gardening and leveling purpose.
8.	Ground water recharge: Rain water harvesting	Not Started yet.
9.	Storm water harvesting	Provided for partly completed building.

Construction facility on site

PP have provided following facilities at site:

- Material storage area.
- DG sets during construction phase.
- Personal Protective equipment's for workers.
- Safety Nets for buildings.
- RMC procured from outside.
- Steel yard.
- Waste material storage area.

Facility provided on site for Labour

Labour camp has been provided for the labours with the all necessities like sanitary facilities, drinking water facility, and health check-up for workers. First aid room with well-equipped first aid box is provided to the workers. Crèche facility for workers children is provided with all necessary facility.

Land Excavation details

The top soil being used for landscape development. To minimize disruption of soil and for conservation of topsoil, the contractor will take out the topsoil separately and stockpile it. After the construction activity is over, topsoil will be utilized for landscape development activity.

Water details

Construction phase

PP have provided the Tanker for drinking water to the labour at project site.

Operational phase

During operation phase water will supplied through Pune Municipal Corporation.

Sewage Treatment Plant details

Construction phase

PP have provided labour camp with 10 no. of toilets and septic tanks. Sewage generated during construction phase is being collected into the septic tank and disposed off through PMC authorized suction vehicle.

Operational phase

PP has proposed 1 nos STP of having capacity 400 m3/day for wastewater generated during operation phase. The technology of STP will be SBR. The treated water from STP will be used for gardening flushing purpose.

Existing municipal drainage line is also available on project site.

Storm Water Drain

PP have provided the proper storm water drainage system within the project area. PP constructed storm water drainage line up to the municipal line.

PP constructed storm water drainage line up to the municipal line.

Rain Water Harvesting

PP have proposed the 7 no's of recharge pits having 2.5 m × 2.5 m × 2 m depth size. To prevent leaves and debris from entering the system, mesh filters will be provided at the mouth of the drainpipe.

For rainwater collected from ground surface following actions are usually taken:

- Cleaning of surface of vegetation, organic and loose materials.
- Smoothening the surface by mechanical compaction or surface binding treatment.
- Checking that the surface is free from all such chemical and organic material, which may cause chemical/bacterial contamination of harvested water.

Solid Waste Disposal

Construction phase

Waste generated from labour camps is mainly comprise of household domestic waste, which is collected and composted on site. The non-compostable and non-

recyclable portion of the waste is collect & segregated. PP have made arrangement for collection & disposal of Non-biodegradable waste.

Power Supply and consumption

Construction phase

PP has received the power supply connection from MSEDCL, Pune.

Operational phase

Connected load is 12,454 kW.
PP has proposed the DG sets having total capacity is (10 No X 1010 kVA) & transformer (3 X 2000 kVA, 3 X 1600 kVA) during operation phase.

Roads, Traffic and Transport details

Construction phase

All incoming and outgoing vehicles during construction phase are having direct access from the main road to project site, so there will not be any disturbance to existing traffic movement. The entry and exit gates are provided with security personnel's.

Operational phase

PP has proposed proper connectivity to main road.

To mitigate the impact of pollutants from vehicular traffic during the operational phase of the site, the following measures are recommended for implementation.

Vehicle emission controls

Adequate informatory signage's/Speed control devices will be put up within premises near entry/exit gates to regulate and control the speed of outgoing/incoming traffic. Regular maintenance of the vehicles will be mandatory will be compulsory for all the vehicles being parked in the building premises. Security persons at entry and exit point to insure the smooth traffic movement.

Housing and Slums provision

PP have provided labour camp with all necessary sanitary facilities at site.

Slum provision is not applicable for this project.

Air Environment

PP are monitoring the ambient air quality every month through MoEF and NABL accredited and six-monthly report have been sent to MoEF, Nagpur and RO & HQ of MPCB offices with the EC compliance condition.

Dust

Water sprinkling on road during construction phase. road side plantation along the boundary of the proposed construction site and within the project site. GI Sheet Barricading along the construction site.

Periodic maintenance of construction equipment. And use the good quality of fuels and use of personal protective equipment.

Noise Environment

PP is monitoring the Noise level through MoEF and NABL accredited Lab every month and six-monthly report have sent to MoEF, Nagpur and RO & HQ of MPCB offices with the EC compliance condition.

No construction work is being done during night time.

Construction equipment are well maintained to reduce the noise pollution as per the standard limits.

PP have provided the earplugs, muffs to the construction staff.

Health facility

PP have provided first aid room for workers within project area. Workers are provided with facility health check-up through annual camps.

The project site is having all necessary facility such as market, banks, and hospitals within 1 km radius.

Other Facility

The project site is having all necessary facility such as market, banks, and hospitals within 1 km radius.

Biological Environment

Plantation & Landscaping

Selection of the plant species has been done based on their adaptability to the existing geographical conditions and the vegetation composition of the region. During the development of the green belt within the project area, emphasis has been given to selection of plant species like nitrogen fixing species, species of ornamental values, species of very fast growth with good canopy cover etc.

Landscape development plan

In the proposed project, the area allotted for landscaping is 2500 m^2. Various types of trees are proposed for plantation. Total 115 no. of trees will be planted in the proposed project. The trees will be planted along the compound wall and along the road with adequate space between them so that their growth is not hampered. Plantation has to be taken up randomly and landscaping aspects could be taken into consideration.

Environment Monitoring Cell

Environmental management cell is being formed headed by an Environment Manager supported by adequate number of personnel having sufficient educational and professional qualification and experience to discharge number of personnel having sufficient educational and professional qualification and experience to discharge responsibilities related to environmental management including statutory compliance, pollution prevention, environmental monitoring, preventive maintenance of pollution control equipment and green belt development & maintenance of pollution control equipment and green belt development & maintenance. The head of the cell is directly report to the top management. This cell is the nodal agency to co-ordinate and provide necessary services on environmental issues during construction and operation of the project. This department will interact with MPCB, MoEF, CPCB and Other environment regulatory agencies. The cell will be effective till handing over of the project to society.

Environmental Management Audits:

The management audits are to determine whether the activities are conforming to the environmental management systems and effective in implanting the environmental policy. They may be internal or external, but carried out impartially and effectively by a person properly trained for it. Broad knowledge of the environmental process and expertise in relevant disciplines is also required. Appropriate audit programs and protocols will be established.

Table 2: Organization & Environment Management Cell

Sr.	Level	Designation	Purpose
1	Honorary	Director / Managing Committee	Policy
2	Manager	Environmental Scientist /Chemist	Job (*)
3	Executive	Supervisor, contractor, Engineers	Implement
4	Third Party	Environmental sampling, analysis will be done through external agency **approved by** MoEFCC / MPCB	Monitoring, testing