



# ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrccindia.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TEST-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/3476/2020		Date of Report : 16.09.2020	
Name /Address/Type of Industry		M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate (Plant Premises)	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	55	55
(d)	Average ambient temperature (°C)	29	29
(e)	Time of Sampling Started (Hours)	10:26 am (09.09.2020)	10:26 am (09.09.2020)
(f)	Time of Sampling completed (Hours)	10:09 am (10.09.2020)	10:09 am (10.09.2020)
(g)	Total time of sampling (Minutes)	24 hour (1418 minutes)	24 hour (1418 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.12	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m <sup>3</sup> )	• 1588.608	• 23.632
	• GAS (Liter)	• 709.2	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23 ): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	85.2	12 - 1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	CPCB Guidelines, Vol. 1	µg/m <sup>3</sup>	48.24	12 - 500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	13.65	6 - 1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	20.14	6 - 750

..... END OF REPORT.....

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Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



Authorized Signatory  
(Ritu Garg)  
QM



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<b>Name /Address/Type of Industry</b>		<b>M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)</b>	
<b>Monitored by</b>		<b>ETRC, Lucknow</b>	
<b>Location of Sampling points</b>		<b>Village: Jamsara</b>	
<b>Sr. No.</b>	<b>GENERAL OBSERVATIONS</b>	<b>DETAILS-PM<sub>10</sub></b>	<b>DETAILS-PM<sub>2.5</sub></b>
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	55	55
(d)	Average ambient temperature (°C)	29	29
(e)	Time of Sampling Started (Hours)	10:51 am (09.09.2020)	10:51 am (09.09.2020)
(f)	Time of Sampling completed (Hours)	10:21 am (10.09.2020)	10:21 am (10.09.2020)
(g)	Total time of sampling (Minutes)	24 hour (1412 minutes)	24 hour (1412 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.095	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	<b>TOTAL VOLUME OF AIR SAMPLED</b> <ul style="list-style-type: none"><li>PM (m<sup>3</sup>)</li><li>GAS (Liter)</li></ul>	<ul style="list-style-type: none"><li>1546.578</li><li>706.2</li></ul>	<ul style="list-style-type: none"><li>23.526</li></ul>

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23 ): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	76.3	12 - 1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	CPCB Guidelines, Vol. 1	µg/m <sup>3</sup>	41.23	12 - 500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	12.15	6 - 1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	16.24	6 - 750

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## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/3478/2020		Date of Report : 16.09.2020	
Name /Address/Type of Industry		M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Som	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	29	29
(e)	Time of Sampling Started (Hours)	10:43 am (10.09.2020)	10:43 am (10.09.2020)
(f)	Time of Sampling completed (Hours)	10:17 am (11.09.2020)	10:17 am (11.09.2020)
(g)	Total time of sampling (Minutes)	24 hour (1416 minutes)	24 hour (1416 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.135	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m <sup>3</sup> )	• 1607.16	• 23.594
	• GAS (Liter)	• 708.0	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23 ): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	80.5	12 - 1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	CPCB Guidelines, Vol. 1	µg/m <sup>3</sup>	44.93	12 - 500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	12.96	6 - 1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	19.47	6 - 750

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## TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

<b>Test Report Ref No.:</b> ETRC/EPA/3479/2020		<b>Date of Report :</b> 16.09.2020
<b>Name /Address/Type of Industry</b>		<b>M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)</b>
<b>Monitored by</b>		<b>ETRC, Lucknow</b>
<b>Sr. No.</b>	<b>GENERAL INFORMATION</b>	<b>DETAILS</b>
(a)	Date of monitoring	10/09/2020 (6:00 AM) to 11/09/2020 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Parameter	Equivalent sound level
(d)	Environmental Condition	Normal

### TEST RESULT

Ambient Noise Level				
Sr. No.	Locations	Unit	Results	Results
			DAY TIME (6:00 AM - 6:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Near Main Gate	dB(A)	63.41	51.25
2	Village: Som	dB(A)	52.17	43.67

Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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ETRC/PM14/TEST-REP/FT/17

## TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3480/2020	Date of Report : 16.09.2020
Name /Address/Type of Industry	M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)

### SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	<b>Borewell within Premises</b>	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	11.09.2020	7	Analysis Start Date	11.09.2020
4	Sample Quantity	5.0 liters	8	Analysis End Date	15.09.2020

### TEST RESULT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	APHA 23 <sup>rd</sup> Ed. 2017-4500 H <sup>+</sup>	7.6	1 - 14
2	Turbidity	NTU	APHA 23 <sup>rd</sup> Ed. 2017-2130 B	BDL	2 - 40
3	Colour	Hazen	IS: 3025 (Part-4):1983 Reaffirmed: 2017	<5.0	5 - 100
4	Odour	-	IS: 3025 (Part-5):1983 Reaffirmed: 2017	Agreeable	Qualitative
5	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2340 C	272.0	5 - 5000
6	Calcium as Ca	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-3500 Ca, B IS: 3025 (Part-40):1991 Reaffirmed: 2019	45.14	2 - 900
7	Magnesium as Mg	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-3111 B APHA 23 <sup>rd</sup> Ed. 2017-3500 Mg, B	38.56	0.2 - 400
8	Chloride as Cl <sup>-</sup>	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-4500-Cl <sup>-</sup> B	44.12	2 - 2000
9	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2320 B	324.0	2 - 1000
10	Total Dissolved Solid (TDS)	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2540 C IS: 3025 (Part-16):1984 Reaffirmed: 2017	418.6	10 - 10000
11	Total Suspended Solids (TSS)	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2540 D	BDL	5 - 5000
12	Ammonia (as total ammonia-N)	mg/l	IS: 3025 (Part-34): 1988 Reaffirmed: 2019	BDL	0.5-2
13	Anionic Detergents (as MBAS)	mg/l	APHA 23 <sup>rd</sup> Ed 2017-5540 C	BDL	0.05-0.5
14	Free Residual Chlorine	mg/l	APHA 23 <sup>rd</sup> Ed 2017-4500-Cl <sup>-</sup> IS: 3025 (Part-26): 1986 Reaffirmed: 2019	2.5	0.1-5
15	Fluoride as F <sup>-</sup>	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-4500 F <sup>-</sup> C	0.38	0.02 - 10
16	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-4500 SO <sub>4</sub> <sup>2-</sup> E	26.28	1 - 800
17	Nitrate as NO <sub>3</sub> <sup>-</sup>	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-4500- NO <sub>3</sub> <sup>-</sup> B IS: 3025 (Part-34):1988 Reaffirmed: 2019	BDL	1.0 - 150
18	Silica as Si	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-4500 SiO <sub>2</sub> B	1.205	1 - 250
19	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3530 C	BDL	0.001-0.005



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## Test Report Ref No.: ETRC/EPA/3480/2020

20	Sodium as Na	mg/l	APHA 23 <sup>rd</sup> Ed. 2017, 3500 Na	74.0	1-2000
21	Potassium as K	mg/l	APHA 23 <sup>rd</sup> Ed. 2017, 3500 K, B	5.1	1-100
22	Aluminium as Al	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.03 - 100
23	Boron as B	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.05 - 2
24	Total Chromium as Cr(T)	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.05 - 10
25	Zinc as Zn	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	0.53	0.1 - 15
26	Cadmium as Cd	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.05 - 2
27	Copper as Cu	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.05 - 10
28	Nickel as Ni	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.05 - 10
29	Iron as Fe	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	0.10	0.05 - 10
30	Lead as Pb	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.01 - 10
31	Manganese as Mn	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	0.07	0.05 - 5
32	Arsenic as As	mg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.02 - 2
33	Mercury as Hg	µg/l	APHA 23 <sup>rd</sup> Ed 2017-3120 B (ICP-OES)	BDL	0.5 - 1000
34	Mineral Oil	mg/l	APHA 23 <sup>rd</sup> Ed 2017-5520 A+D	BDL	5 - 200
35	E. coli	MPN/ 100 ml	IS :1622:1981 Reaffirmed: 2019	Absent	Shall not be detected in any 100 ml sample
36	T. coli	MPN/ 100 ml	IS :1622:1981 Reaffirmed: 2019	Absent	

BDL=Below Detection Limit

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ETRC/PM14/TEST-REP/FT/38

## TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/EPA/3475/2020	Date of Report : 16.09.2020
Name /Address/Type of Industry	M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)

### SAMPLE DETAILS

1	Sampling Location	Near Main Gate	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	11.09.2020	7	Analysis Start Date	11.09.2020
4	Sample Quantity	1.0 kg	8	Analysis End Date	15.09.2020

### TEST RESULT


Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.8	1 - 14
2	Electrical Conductivity	( $\mu$ s/cm)	IS: 14767 : 2000 Reaffirmed: 2016	1272.0	1 - 40000
3	Moisture Contents	(%)	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	3.25	1 - 50
4	Copper as Cu	(mg/kg)	ETRC/LABSOPS/07 Issue. 1 Dated. 10.08.2015	2.14	0.3 - 500
5	Zinc as Zn	(mg/kg)	ETRC/LABSOPS/08, ISSUE NO.1 Dated 10.08.2015	3.16	1 - 500
6	Iron as Fe	(mg/kg)	ETRC/LABSOPS/09, ISSUE NO.1 Dated 10.08.2015	18.6	5 - 500
7	Manganese as Mn	(mg/kg)	ETRC/LABSOPS/09, ISSUE NO.1 Dated 10.08.2015	9.58	5 - 500
8	Sulphur	(mg/kg)	IS: 14685: 1999 Reaffirmed: 2014	14.13	5 - 100

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Date : 22.12.2020

To,  
The Director  
Ministry of Environment, Forest & Climate Change  
Kendriya Bhawan, 5th Floor "H" Aliganj  
Lucknow (UP)

**Subject: Environmental Clearance for Integrated Paint Plant at Plot No:- B4 & B5 at Sandila Industrial Area Phase-I, District- Hardoi, U.P., M/s Berger Paints India Limited.**

Dear Sir,

Please find enclosed herewith the Compliance Report of the conditions of Environmental Clearance for Integrated Paint Plant at Plot No:- B4 & B5 at Sandila Industrial Area Phase-I, District- Hardoi, U.P., M/s Berger Paints India Limited for the period of May 2020 to September 2020.

We would like to inform you that, we have not started any construction work at the site till date and also want assure you that we will comply with all the conditions stipulated in the EC given by H'ble Ministry of Environment, Forest & Climate Change, New Delhi and we are conscious to our Environmental and social responsibilities and also committed towards creating a clean and safe environmental in and around manufacturing facility and continued our efforts for the same.

We hope that the given data would be sufficient to meet the requirement

Yours faithfully

For

**M/s Berger Paints India Limited**

Dipankar Nag

Chief Manager, Corporate EHS/TQM



CC: 1. Member Secretary, Uttar Pradesh Pollution Control Board, Lucknow.  
2. Central Pollution Control Board, Lucknow.

**BERGER PAINTS INDIA LIMITED**

Berger House, 129, Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax : 91-33-2249 9009/9729, www.bergerpaints.com  
CIN - L51434WB1923PLC004793, E-mail : consumerfeedback@bergerindia.com





**SIX MONTHLY COMPLIANCE REPORT FOR PERIOD MAY 2020 TO SEPTEMBER 2020**

Sr. No.	Statutory	Compliances
I.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project..	Not applicable as there is no forest land involved in the project.
II.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable, there is no wild life sanctuary within 10 km radius.
III.	The project proponent shall prepare a Site-Specific Conservation Plan and approved by the Chief Wildlife Warden. The recommendation of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report. (in case of the presence of schedule species in the study area).	Not applicable.
IV.	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/Committee	The CTE (Consent to Establish) application has been submitted to UPPCB. It is in process. We have not started any construction work on the site.
V.	The project proponent shall obtain authorization under the Hazardous and other waste management rules 2016 as amended from time to time.	We will submit the application after commissioning of the plant.
VI.	The company shall strictly comply with the rules and guideline under manufacture, storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals Shall be as per the Motors Vehicle Act (MVA),1989	The point is noted. Will be complied.
<b>II. Air quality monitoring and preservation:</b>		
I.	The project The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	We have not started any construction work at the site; we will comply with this condition after the commissioning of plant.
II.	The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameter relevant to the main pollutant released (e.g. PM10 and PM2.5 in reference to PM emission , and SO2 and NOx in reference to SO2 and NOx emission) within and outside the plant area	Ambient Air Monitoring quality has been done at 3 locations; report is attached in Annexure no. 1.

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	at least at four location (one within and three outside the plant area at an angle of 12 0* each), covering upwind and downwind direct ions.(case to case basis small plants; Manual : Large plants : Continuous).	
III.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	We have not started any construction work at the site; we will comply with this condition after the commissioning of plant.
IV.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all venerable sources', so as to comply prescribed stack emission and fugitive emission standards.	We have not started any construction work at the site; we will comply with this condition after the commissioning of plant.
V.	The National Ambient Air Quality Emission Standard issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be complied with.	Point is noted and same will be complied after commissioning of plant
VI.	Sulphur content should not exceed 0.5% in the coal for use in coal fired boiler to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Point is noted and same will be complied after commissioning of plant
VII.	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so the the emission are in conformity with the extant regulations and the guidelines in this regard.	Point is noted and same will be complied after commissioning of plant
VIII.	Storage of raw materials, coal etc shall be either stored in soils or in covered areas to prevent dust pollution and other fugitive emission.	Point is noted and same will be complied after commissioning of plant
<b>III. Water quality monitoring and preservation</b>		
I.	For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB online servers.	We have not started any construction work at the site; we will comply with this condition after the commissioning of plant.
II.	Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving ZLD).	We have not started any construction work at the site; we will comply with this condition after the commissioning of plant.
III.	Process effluent / any waste water shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Point is noted and same shall be complied.

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IV.	The effluent discharge shall conform to the standard prescribed under the Environment (Protection) Rules, 1986, or as specified by the state Pollution control Board while granting Consent under the Air/Water Act, whichever is more stringent.	Point is noted and same will be complied after commissioning of plant
V.	Total fresh water requirement shall not exceed the proposed quantity or as specified by the committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	We have obtained CGWA NOC through NOC no - CGWA/NOC/IND/ORIG/2020/7594 dated 06.3.2020. Copy attached as Annexure- II.
VI.	Industrial /trade effluent shall be segregated into High COD/TDS and low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed through RO system.	Point is noted and same will be complied after commissioning of plant.
VII.	The company shall harvest rainwater from the roof tops of the building and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Rain water harvesting pit will be constructed at the time of construction work.
<b>IV. Noise monitoring and prevention</b>		
	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Point is noted and same will be complied after commissioning of plant.
	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Point is noted and same will be complied after commissioning of plant
	The ambient noise levels should conform to the standards prescribed under E(P) A Rules,1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Point is noted and same shall be complied.
<b>V. Energy Conservation measures</b>		
I.	The energy sources for lighting purposes shall preferably be LED based.	Point is noted and same shall be complied.
<b>VI. Waste management</b>		
II.	Hazardous chemicals shall be stored in tank, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Point is noted and same shall be complied.
III.	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Point is noted and same will be complied after commissioning of plant.
IV.	The company shall undertake waste minimization measures as below.	Point is noted and same shall be complied.



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	<p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c. Use of automated filling to minimize spillage.</p> <p>d. Use of close feed system into batch reactors.</p> <p>e. Venting equipment through vapour recovery system.</p> <p>f. Use of high pressure hoses for equipment clearing to reduce wastewater generation</p>	
<b>VII. Green Belt</b>		
<b>I.</b>	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	33 % of total land will be developed as Green Belt.
<b>VIII. Safety, Public hearing and Human health issues</b>		
<b>I.</b>	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Point is noted and same shall be complied.
<b>II.</b>	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Point is noted and same shall be complied.
<b>III.</b>	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre – employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Point is noted and same shall be complied.
<b>IV.</b>	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporarily structures to be removed after	Point is noted and same shall be complied.
<b>V.</b>	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Point is noted and same shall be complied.
<b>VI.</b>	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Point is noted and same shall be complied.
<b>VIII. Corporate Environment Responsibility</b>		
<b>I.</b>	The project proponent shall comply with the provision contained in this Ministry OM vide F.No. 22-65/2017 – IA.III dated 1 <sup>st</sup> may 2018, as applicable, regarding Corporate Environment Responsibility.	Point is noted and same shall be complied within five year plan.
<b>II.</b>	The company shall have a well laid down environmental policy duly approved by the Board of	Point is noted and shall be complied.



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	Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements /deviation / violation of the environment/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environment/forest/wildlife norms I conditions and / or shareholders/stake holder. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six – monthly report.	
III.	As separate Environmental cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Point is noted and shall be complied.
IV.	Action plan for implementing EMP and environment conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environment protection measures shall be kept in separate account and not to be diverted for any other purpose. Year's wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the six Monthly Compliance Report.	Point is noted and shall be complied.
V.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Point is noted and shall be complied.
<b>IX. Miscellaneous</b>		
I.	As proposed ZLD shall be achieved.	Point is noted and same will be complied after commissioning of plant.
II.	Under any circumstances no effluent of any kind be discharged outside the premises of Factory.	Point is noted and shall be complied.
III.	The project proponent shall make public the environmental clearance granted for their project along with the environmental condition and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Public notice has been published in two news paper "Indian Express" on 27 August 2020 and "JanSatta" on 27 August 2020. Copy of the same is attached as <b>Annexure – III.</b>
IV.	The copies of the environmental clearance shall be submitted by the project proponent to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the	<b>Complied. Copy attached as Annexure- IV.</b>

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	Government who in turn has to display the same for 30 days from the date of receipt.	
V.	The project proponent shall upload the status of the compliance of the stipulated environment clearance condition, including results of monitored data and in conditions, including results of monitored data on their website and update the same on half-yearly basis.	Point is noted and same is being complied.
VI.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Point is noted and same will be complied after commissioning of plant.
VII.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environmental clearance portal.	Point is noted and same will be complied after commissioning of plant.
VIII.	The project proponent shall submit the environmental statement for each financial year in form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Point is noted and same will be complied after commissioning of plant.
IX.	The project proponent shall inform the Regional Office as well as the Ministry, the date of development work and start of production operation by the project.	Point is noted and same will be complied before start of construction work.
X.	The project authorities must strictly adhere to the stipulation made by the State Pollution Control Board and the State Government.	Point is noted and same will be complied.
XI.	The project proponent shall abide by all the commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	<b>Not applicable.</b>
XII.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).	Point is noted



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XIII.	Concealing factual data or submission of false fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment (Protection) Act, 1986.	Point is noted and same will be complied.
XIV.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Point is noted
XV.	The Ministry reverse the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Point is noted
XVI.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Point is noted
XVII.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.	Point is noted
XVIII.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Point is noted.

It is requested that kindly consider the compliance report.

Thanking you

For Berger Paints India Limited

Dipankar Nag

Chief Manager, Corporate EHS/TQM



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# ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

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ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TEST-REP/FT/38

## TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/EPA/3475/2020	Date of Report : 16.09.2020
Name /Address/Type of Industry	M/s Berger Paints India Limited B-4, B-5, Industrial Area Sandila Phase-1, Hardoi (U.P.)

### SAMPLE DETAILS

1	Sampling Location	Near Main Gate	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	11.09.2020	7	Analysis Start Date	11.09.2020
4	Sample Quantity	1.0 kg	8	Analysis End Date	15.09.2020

### TEST RESULT


Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.8	1 - 14
2	Electrical Conductivity	( $\mu$ s/cm)	IS: 14767 : 2000 Reaffirmed: 2016	1272.0	1 - 40000
3	Moisture Contents	(%)	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	3.25	1 - 50
4	Copper as Cu	(mg/kg)	ETRC/LABSOPS/07 Issue. 1 Dated. 10.08.2015	2.14	0.3 - 500
5	Zinc as Zn	(mg/kg)	ETRC/LABSOPS/08, ISSUE NO.1 Dated 10.08.2015	3.16	1 - 500
6	Iron as Fe	(mg/kg)	ETRC/LABSOPS/09, ISSUE NO.1 Dated 10.08.2015	18.6	5 - 500
7	Manganese as Mn	(mg/kg)	ETRC/LABSOPS/09, ISSUE NO.1 Dated 10.08.2015	9.58	5 - 500
8	Sulphur	(mg/kg)	IS: 14685: 1999 Reaffirmed: 2014	14.13	5 - 100

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment constituting to the results.
- All disputes subject to Lucknow jurisdiction.
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- Complain register is available in our laboratory.

  
Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM