



Corporate Identification Number (CIN) : L24220MH1945PLC004598
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Ref No. KAS2022/11/07

Dated: 30/11/2022

To,
The Director, MoEF
Kendriya Bhawan
5th Floor, Sector H, Aliganj,
Lucknow - 226024

Sub: Compliance report to the Environmental Clearance no. J 11012/134/96-1A II (I) dated 29 April 1997

Please find enclosed the point wise compliance status to the above Environmental Clearance for the period of Apr'22 to Sep'22.

We hope the compliance report is as per the requirements.

Thanking you,

Yours sincerely,
For and behalf of Asian Paints Ltd.

Rajveer Rathore
Sr. Manager - EHS & QA
Kasna Plant

Encl – Point wise compliance status to Environmental Clearance no. J 11012/134/96-1A II (I) dated 29 April 1997 for the period Apr'22 to Sep'22.

ASIAN PAINTS LTD
KASNA PLANT
ENVIRONMENT CLEARANCE - COMPLIANCE REPORT
April'22 to Sep'22

MoEF CONDITIONS
ENVIRONMENT CLEARANCE NO. J .11012 / 134 / 96 - IA.II (I) DATED 29.04.1997

No	CONDITIONS	COMPLIANCE STATUS																																				
i	The project authority must strictly adhere to the stipulations made by the U.P. Pollution Control Board.	Adhering to all conditions mentioned in the existing air consent, water consent and hazardous waste authorization. The compliance status report of NOC No. F 32710 / C-1 / N / NOC-152/2004 dated June 01st 2004 & Upgradation NOC F 98553 C-1/N/NOC-1168/2016/10 are enclosed.																																				
ii	No further modification or expansion of the plant should be carried out without approval of the Ministry of Environment and Forests.	Noted and complied																																				
iii	The emission from various units should conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit should be put out of operation immediately and should not be restarted until the control systems are rectified to achieve the desired efficiency. Monitoring of ambient air quality and stack emissions should be carried out periodically in consultation with the State Pollution Control Board and report submitted on quarterly basis.	Ambient Air and the Stack emissions from utilities are monitored every month. Stack emissions are within specified limits. Ambient Air Quality has been found to be bad in the NCR region. The Ambient Air Quality readings for the months of April, May, Jun, July, Aug and Sep were found to be out of specified limits Annexure 1 (Stack Analysis) is attached for your reference.																																				
iv	Liquid effluent generated should be treated so as to meet the following minimum standards. <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">a. pH</td><td style="text-align: right;">6.0 - 8.5</td></tr> <tr><td>b. Oil & grease</td><td style="text-align: right;">10 mg/l</td></tr> <tr><td>c. Suspended solids</td><td style="text-align: right;">100 mg/l</td></tr> <tr><td>d. BOD at 27° C</td><td style="text-align: right;">30 mg/l</td></tr> <tr><td>e. Phenolics as C H OH</td><td style="text-align: right;">1.0 mg/l</td></tr> <tr><td>f. Lead as pb</td><td style="text-align: right;">0.1mg/l</td></tr> <tr><td>g. Chromium as Cr Hexa.</td><td style="text-align: right;">0.1 mg/l</td></tr> <tr><td>h. Copper as Cu</td><td style="text-align: right;">2.0 mg/l</td></tr> <tr><td>i. Nickel as Ni</td><td style="text-align: right;">2.0 mg/l</td></tr> <tr><td>j. Zinc as Zn</td><td style="text-align: right;">5.0 mg/l</td></tr> <tr><td>k. Total heavy metal</td><td style="text-align: right;">7.0 mg/l</td></tr> </table> The quantity of and quality (including general) parameters of the treated effluent should be measured regularly and data so collected should be submitted to this Ministry once in six months. The effluent would also be required to meet any additional stipulation laid down by State Pollution Control Board.	a. pH	6.0 - 8.5	b. Oil & grease	10 mg/l	c. Suspended solids	100 mg/l	d. BOD at 27° C	30 mg/l	e. Phenolics as C H OH	1.0 mg/l	f. Lead as pb	0.1mg/l	g. Chromium as Cr Hexa.	0.1 mg/l	h. Copper as Cu	2.0 mg/l	i. Nickel as Ni	2.0 mg/l	j. Zinc as Zn	5.0 mg/l	k. Total heavy metal	7.0 mg/l	Total quantity of the treated effluent on monthly basis are as follows <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Month</th> <th style="text-align: center;">Qty of treated effluent (KL)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">Apr'22</td><td style="text-align: center;">902.91</td></tr> <tr><td style="text-align: center;">May'22</td><td style="text-align: center;">1119.82</td></tr> <tr><td style="text-align: center;">Jun'22</td><td style="text-align: center;">1379.58</td></tr> <tr><td style="text-align: center;">July'22</td><td style="text-align: center;">1316.32</td></tr> <tr><td style="text-align: center;">Aug'22</td><td style="text-align: center;">1035.57</td></tr> <tr><td style="text-align: center;">Sep'22</td><td style="text-align: center;">1229.56</td></tr> </tbody> </table> In addition, physico-chemical analysis of the treated effluent is carried out by MoEF recognised lab. Annexure 2 (Treated effluent quality analysis) is attached for your reference. All the parameters related to effluent quality are found to be within specified limits.	Month	Qty of treated effluent (KL)	Apr'22	902.91	May'22	1119.82	Jun'22	1379.58	July'22	1316.32	Aug'22	1035.57	Sep'22	1229.56
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	As per the EMP, process wastewater generation will increase from 60m ³ /d to 175 m ³ /d. The company should explore the feasibility of maximum recycling/ reuse of treated effluent. A report indicating firm-ed-up scheme in this regard should be submitted	We had submitted the scheme for recycling of treated water vide letter dated 02.03.1997, 22.05.1998 & 24.03.1999. That included the recycling scheme. Accordingly, at present, the scheme is being followed for use of recycled water for Gardening, Toilet flushing and Chemical preparation in ETP and reuse of water for mixer																																				

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April'22 to Sep'22

	to the Ministry within 3 months.	cleaning and in production batches. We have already installed & commissioned Tertiary Treatment system. Presently we are not discharging any treated effluent outside the factory premises.
v	The project authorities should comply with the provisions of Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended on 03.10.1994.	Complied. All hazardous chemicals as identified in schedule I, II, III of Manufacture, Storage and Import of Hazardous Chemicals, Rules 1989 and amendment 2003 are stored with proper identification and well segregated from other chemicals.
vi	As indicated in the EMP there will be no disposal of solid waste generated from the solvent based paint section as landfills. The solid waste generated will be stored in containers and sold to contractors for manufacture of low paint grade formulation. The ETP sludge to be disposed of in a secured land fill area so as ensure there is no ground water contamination. Design details of the land fill site should be submitted to the Ministry for review within a period of 3 months.	Complied. Solid Waste generated from solvent based paint is either reused or sold off to authorised parties. Waste which is found to be unusable is declared as hazardous waste and sent to TSDF or cement kiln for pre-processing and co-processing ETP sludge is disposed off in secured landfills of the TSDF : - UPWMP (Resustainability Limited, previously known as Ramky Enviro Ltd) in Kanpur.
vii	Observation wells should be developed and ground water quality around the solvent storage area should be monitored regularly and the reports submitted to this Ministry as well as the State Pollution Control Board along with other compliance reports.	Complied. Observation wells have been dug and developed in and around areas as suggested. Ground water quality is regularly monitored by MoEF recognised lab and reports of these monitoring is also submitted to Ministry and SPCB. Annexure 3 is attached for your reference.
viii	Occupational health surveillance programme should be undertaken as a regular exercise for the employees especially engaged in handling hazardous substances.	All workmen undergo a detailed Half Yearly medical Examination. The check up comprise of following tests: 1. CBC (Hemoglobin,PCV,TLC,RBC Count,MCV,MCH,MCHC,TLC, Platelet Count, Mean Plateet DLC, Absolute leucocyte Counts) 2. Blood Group 3. Urine routine (Proteins, Ketone, Glucose, Bilirubin, Urobilinogen, Leucocyte esterase, Nitrite, RBC, Pus cells, Epithelial cells, Casts, Crystals) Routine Urine 4. Physical Examination + Eye Checkup (Visual Activity & Color Blindness) Occupational Health Surveillance at the plant has been conducted by Dr. Lal Path Labs Greater Noida.
ix	A green belt of adequate width and density should be raised within the plant premises using native plant species. The existing green belt needs to be improved on a scientific basis in consultation with the local DFO/BSI/Pusa Research Institute.	The plant has about 6188 trees inside its campus. We have planted the local variety of plants like Gulmohar, Neem, Elastonia, Oak, in and around the plant including the green belt. Dr. R. K. Singh of Forest Research Institute (ICFRE) Dehradun gave us the list of local variety of trees for green belt development. Further augmentation of green belt was completed in the past as per the suggestion by the local Forest Range Officer. For future plantation we will adhere

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		Green belt guidelines as mentioned in order no. H16405/220/2018/02. Moreover, to ensure 33% compliance with respect to green belt, as presented to SEAC, we have adopted a park from UPSIDA located at Park P2, Site V, Surajpur, for green belt development. We have also carried out plantation as per Miyawaki method both inside our plant premises as well as in the external plot adopted by us from UPSIDA.
x	A separate environmental management cell with suitably qualified personnel to carry out various functions should be set up under the control of Senior Executive who will report directly to the Head of Organisation.	A management cell comprising of the following competent people has been set up: a) Sh V. Ravi – GM (Manufacturing) b) Sh Sunil Singh – Associate General Manager c) Sh Rajveer Rathore – Sr. Manager QA & EHS d) Sh Ayush Sharma – Manager EHS e) Sh Anup Sharma – Sr. Executive EHS f) Sh Ankit Jain – Executive II EHS g) Sh Masab Mohammad Shoeb – Executive II EHS h) Sh Pradeep Kumar Nishad – Executive 1 EHS i) Sh. Sarang Shandilya – Executive 1 EHS The Environment Cell is headed by Sh Sunil Singh Associate General Manager, Kasna Plant.
xi	The project authority must set up laboratory facilities for collection and analysis of samples under the supervision of competent technical personnel who will directly report to the Chief Executive.	A laboratory facility is already available in the plant to monitor, receive and analyse samples of treated effluent etc.
xii	The funds earmarked for environmental protection measures should not be diverted for other purposes and year-wise expenditure should be reported to this Ministry.	Complied. The expenditure on environmental protection measures in the current financial year for the period April'22 to Sep'22 is Rs 12884694.86
xiii	The Regional Office of this Ministry located at Lucknow/ the CPCB/ the SPCB will monitor the stipulated conditions. A six monthly compliance status report should be submitted to them regularly.	As per EIA notification 2006 and further amendments to EIA in 2009, we are submitting the six monthly compliance reports for the period of April'22 to Sep'22.

Enclosure:

1. Point wise Compliance Status to N.O.C No. F 32710 / C-1 / N / NOC-152/2004 dated June 01st 2004.
2. Point wise Compliance Status to N.O.C No. F 98553 C-1/N/NOC-1168/2016/10 dated March 22nd 2017.

Annexure:

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April'22 to Sep'22

1. Stack Monitoring Analysis.
2. Treated Effluent Monitoring Analysis.
3. Ground Water Monitoring Analysis.
4. Ambient Noise Monitoring Analysis.

Point Wise Compliance Status to N.O.C No.F98553 C-1/N/NOC-1168/2016/10 dated March 22nd 2017

Sr. No.	Conditions	Compliance Status
1	a) Operating Unit -: A-1,B-2 UPSIDC Industrial Area, Kasna, Greater Noida, Gautam Buddh Nagar	
	b) Main Products -: Paint, Varnish & Enamels Total Capacity (Paints): 80,000 KL/Year Resin/Emulsion : 36000 MT (TSR/Total Solid Resins)	Paint production is below the consent limit of 80,000 KL. Actual Paint Production in 2022-23 for the period April'22 to Sep'22 is 41094.122 KL. Our paint production for FY 22-23 will be within the consent limit of 80,000 KL Resin/Emulsion production is below the consent limit of 36000 MT (TSR/Total Solid Resin). Resin/Emulsion production in 2022-23 for the period April'22 to Sep'22 is 10516.60 MT (TSR/Total Solid Resin)
	Proposed Modification/Automation Work- Automation work, Installation of 2 pug mill replacing 4 ball mills (capacity 2.5 KL each) situated at paint block after dismantling, installation of 4 automatic robotic packing line and replacement of 2 CNG Fired thermopacks of 10 lakh kilo calorie capacity situated at RH with 1 CNG Fired thermopack of 20 lakh kilo calorie capacity	We have replaced 4 ball mills with 2 basket mills and 1 sand mill instead with 2 pug mills. We have replaced 4 thermopacks of 10 lakh kilo calorie capacity with 2 thermopacks of 20 lakh kilo calorie capacity.
	c) Main Raw Materials -: Pigments-13.93 Ton/day, Solvent-54.657 Ton/day, Oil-22.466 Ton/day, Extenders-63.689 Ton/day, Monomer-5.354 Ton/day, Additive-11.111 Ton/Day, Resin R.M.-2.763 Ton/day (Same as Earlier)	These are average daily consumption quantities of raw materials required in manufacturing process, whereas, the actual rate of consumption may vary depending on production requirement and market demands. The overall production quantity of paint and emulsion/resin produced are within the approved quantities of 80000 MT and 36000 MT (TSR/Total Solid Resin) respectively.
	d) Industrial Effluent Discharged quantity :- 60 KL/day	Permitted quantity for industrial Effluent discharge is 60 KL/Day as per consent provided by UPPCB Industrial effluent discharge has been below 60 KL on all the days of the month.
	e) Used Fuel: CNG and Diesel	There is no new addition in fuel.

2	Please arrange for inspection of Unit by our Regional Office before starting trial production	Noted
3	It shall be ensured that directions given by National Green Tribunal for use of clean fuel in industry in case of O.A. No.-01/2012 Sanjay Agnihotri versus Union of India and other directions given from time to time shall be followed meticulously.	We will make necessary changes and ensure compliance with new requirements as and when we receive communication from your esteemed office regarding these requirements.
4	In future if C.N.G. is available then the previously installed D.G.sets will be operated by C.N.G.	Noted and will be complied. Procurement order for CNG based generators is already released.
5	The disposal of hazardous waste like E.T.P. sludge, paint chemical sludge, process dust, residue, incinerated ash, used oil, discarded asbestos etc will be done in T.S.D.F.	All categories of Hazardous Waste mentioned in point no. 5 of NOC are already been disposed to TSDF.
6	The sludge generated by S.T.P. should be used for gardening etc	Noted.
7	Appropriate green belt should be developed around the industry	To ensure 33% compliance with respect to green belt, as presented to SEAC, we have adopted a park from UPSIDA located at Park P2, Site V, Surajpur, for green belt development. We have also carried out plantation as per Miyawaki method both inside our plant premises as well as in the external plot adopted by us from UPSIDA.
8	Compliance of Environment (protection) 1986 will be done.	We are complying with all the requirements as prescribed under Environment Protection Act 1986.
9	For exploitation of ground water NOC from Ground Water Authority should be obtained and submitted to the State Board.	We have received NOC for abstracting of ground water from UPGWD as per registration no. 202106000403, 202106000398 & 202106000202
10	Rain water harvesting and green belt shall be provided/ established.	We practice rain water harvesting within factory premises as well as in and around villages in Kasna. Total recharge potential created outside factory premises between April'22 to Sep'22 is 4140 KL. 3785.20 KL of rain water reused within plant from April'22 to Sep'22. 28943 KL of rain water

		recharged outside plants as part of CSR initiatives. To ensure 33% compliance with respect to green belt, we have adopted a park located at Park P2, Site V, Surajpur, from UPSIDA for green belt development. We have also carried out plantation as per Miyawaki method both inside our plant premises as well as in the external plot adopted by us from UPSIDA
11	Height of chimnies for existing 500KVA capacity, 6 No. D.G.sets should be 8m from GL for each.	DG stack heights are in accordance with the formula for calculating minimum height of stack of DG sets as mentioned in CPCB guidelines "Environmental Standards for Ambient Air, Automobiles, Fuels, Industries and Noise" – Pollution Control Law Series: PCL/4/2000-2001 on page no. 19
12	E-waste management shall be done according to E-waste management rules 2016	We are compliant with requirements as mentioned under E-Waste Management rules 2016
13	Capacity of the plant cannot be increased without prior permission of the Board	Any such plans in future will be communicated to UPPCB well in advance and we will not increase production capacity without prior approval from UPPCB

Point wise Compliance Status to N.O.C No. F 32710 / C-1 / N / NOC-152/2004 dated June 01st 2004

No	Conditions	Compliance Status
1.	a) Operating Unit -: A-1,B-2 UPSIDC Industrial Area, Kasna, Greater Noida	
	b) Main Products -: Paint, Varnish & Enamels Total Capacity (Paints): 80,000 KL/Year Resin/Emulsion : 36000 MT (TSR/Total Solid Resins)	Paint production is below the consent limit of 80,000 KL. Actual Paint Production in 2022-23 for the period April'22 to Sep'22 is 41094.122 KL. Our paint production for FY 22-23 will be within the consent limit of 80,000 KL. Resin/Emulsion production is below the consent limit of 36000 MT (TSR/Total Solid Resin). Resin/Emulsion production in 2022-23 for the period April'22 to Sep'22 is 10516.60 MT (TSR/Total Solid Resin)
	c) Main Raw Materials -: Titanium Di-oxide, Coloured Pigments, Vegetable Oil, Resin, Toluene, Mineral Turpentine, Extenders, etc.	• There is no change in the operating condition and main Raw Materials remain the same.
	d) Industrial Effluent at enhanced production :- 100 KL/day	• Permitted quantity for industrial Effluent discharge is 60 KL/Day as per consent provided by UPPCB Industrial effluent discharge has been below 60 KL on all the days of the month.
	e) Used Fuel: No addition of any air pollution source after expansion.	• Noted.
2	Progress reports on installation of all the essential machinery, equipment, green belt, effluent treatment plant and air pollution abatement facilities are to be submitted to this office by 10 th of every month.	• Said progress reports have been submitted to UPPCB on or before 10 th of every month
3	The unit will not undertake trial production for expanded capacity till it obtains consent under the Air & Water Act.	• Air & Water consent for expanded capacity (50k to 80k) was obtained from UPPCB prior to undertaking trial production for enhanced capacity.
4	Inspection of the unit by Regional Office will be organized prior to start of trial production	• Inspection by Regional office was organized and completed.
5.	Domestic effluent discharged should be less than 60KL/day. The effluent will be treated by means of safety tank and soak pit before discharge to meet all the standards set by the Board.	• Permitted quantity for domestic discharge is 100 KL/Day as per consent provided by UPPCB. Domestic effluent discharge is below 100 KL for all days of the month. Average domestic effluent generation for the period April'22 to Sep'22 was 27.69 KL /day.
	**As per the latest water consent domestic effluent discharged should be less than 100KL/day.	• Domestic effluent is treated along with industrial effluent and the final treated effluent is meeting all the standards set by the board.
6.	Plan for proposed treatment facility for pollution control is to be submitted to this office	• The existing facilities are adequate for the pollution control.
7.	M/S Asian Paints Limited, A-1,B-2 UPSIDC Area- Greater Noida will not produce paint in excess of 80,000 KL/annum	• Paint production is below the consent limit of 80,000 KL.
8.	Treatment of Industrial Effluent is to be done through existing Effluent Treatment Plant. A separate power meter is to be installed for the same.	• Treatment of Industrial Effluent is being done through existing Effluent Treatment Plant. A separate power meter is installed for the same.

9	The industry operates its Effluent Treatment Facility in a manner so as to meet the existing standard for discharged effluent specified by the board.	<ul style="list-style-type: none"> The treated effluent is meeting all the standards specified by the Pollution Control Board. Physico-chemical analysis of the final treated effluent is carried out by MoEF recognized lab.
10	No air pollution equipment is proposed by the industry for expansion of capacity. So, no new air pollution source is installed.	<ul style="list-style-type: none"> Complied.
11.	The Present N.O.C is valid for one year	<ul style="list-style-type: none"> This clause is now made redundant vide letter <u>F51408/C-1/N/N.O.C.-152/2005</u> dated 14.10.2005
12.	The industry should ensure compliance to Hazardous Waste (Management & Handling) Rules 1989 & Amendment thereafter.	<ul style="list-style-type: none"> Hazardous Waste (Management, Handling & Transboundary) Rules 2016 are being complied with. Hazardous waste authorization Ref. No: 10518/UPPCB/GreaterNoida(UPPCBRO)/HWM/GREATER NOIDA/2019 Dated: 17/03/2020 received on 17/03/2020 and is valid for five years from the date of issue.
13	The industry should ensure compliance to The Water (Prevention & Control of Pollution) Cess Act, 1977.	<ul style="list-style-type: none"> Compliance status report as per NOC no. CGWA/NOC/IND/ORIG/2018/4316 dated 27th Nov 2018 received on 30th Nov 2018 submitted on online portal of CGWA.
14	There should be a terminal manhole, flow-measuring device and sample collection facility at the last point of discharge of effluent. The terminal manhole should be in form of chamber made of cement & concrete, covered from the top with provision of locking system.	<ul style="list-style-type: none"> "V"-notch has been provided at the point of discharge for the measurement of effluent and sample collection. The terminal manhole is in form of chamber made of cement & concrete, covered from the top with provision of locking system.
15.	Industry should establish facility for rainwater harvesting.	<ul style="list-style-type: none"> Rain-Water Harvesting System has been commissioned. 3785.20 KL rain water reused from April'22 to Sep'22 Rain water recharge inside the plant premises has been stopped after guideline issued by CGWA for paint industry for not recharging any water to ground
16	Industry should comply with conditions of N.O.C dated 23 December 1996	<ul style="list-style-type: none"> Conditions are being complied with.
17.	Condition no. 3, 9, 10, 12, 14 & 15 of this N.O.C are sensitive. In case of non-compliance of said conditions the bank guarantee given by the industry will be seized.	<ul style="list-style-type: none"> Condition no. 3, 9, 10, 12, 14 & 15 of this N.O.C are being complied with. Bank guarantee has been released by your office vide letter <u>F51408/C-1/N/N.O.C.-152/2005</u> dated 14.10.2005 and received by us.

Annexure 1- Stack Monitoring Analysis (April'22 to Sep'22)

	April'22 to Sep'22											
	Particulate Matter(mg/Nm3)			SO ₂ (mg/Nm3)			Nox(mg/Nm3)			CO(mg/kg)		
	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average
DG-GEN K 802	52.12	20.86	35.67	2.66	1.11	1.76	130.89	18.53	89.98	BDL	BDL	BDL
DG-GEN K 803	50.51	28.35	38.87	2.19	1.15	1.67	130.89	18.53	89.98	BDL	BDL	BDL
DG-GEN K 804	41.75	28.08	35.21	2.60	1.19	1.77	133.80	14.08	101.85	BDL	BDL	BDL
DG-GEN K 805	46.37	22.56	30.55	3.05	1.23	1.78	163.62	18.87	97.37	BDL	BDL	BDL
DG-GEN K 806	45.95	26.80	35.54	3.00	1.20	1.79	120.75	14.51	93.16	BDL	BDL	BDL
Thermopac TP -K 407	14.01	7.26	10.64	4.00	0.00	2.00	4.00	0.00	2.33	BDL	BDL	BDL
Thermopac TP -K 401 & TP -K 403	0.00	0.00	#DIV/0!	0.00	0.00	#DIV/0!	0.00	0.00	#DIV/0!	BDL	BDL	BDL
Thermopac TP - K 408	17.00	8.36	12.27	6.00	2.00	3.83	4.00	1.00	2.67	BDL	BDL	BDL
Thermopac TP - K 801	13.69	8.04	10.14	7.00	2.00	4.00	9.00	1.00	4.67	BDL	BDL	BDL
Boiler BO - K802	13.80	10.73	11.93	6.00	2.00	4.33	4.00	2.00	3.00	BDL	BDL	BDL
Non IBR Boiler	5.40	2.59	3.57	2.00	2.00	2.00	5.00	1.00	3.33	BDL	BDL	BDL
IBR Boiler	14.62	9.22	10.48	9.00	2.00	4.67	6.00	1.00	2.83	BDL	BDL	BDL

BDL- Below Detection Limit

NS-Not Specified

* Monitoring is done by Moef recognised lab M/S Enviro International

***Monitoring period is from April'22 to Sep'22 on monthly basis. Test/sampling methods followed are IS standard & US EPA method

Annexure 2 (Treated Effluent Quality Parameter)- (Apr'22 - Sep'22)

SR. NO.	Parameter	UNIT	Maximum	Minimum	Average	Standard
1	pH	8.1	7.3	7.65	6.0-8.5
2	Temperature	°C	21	15	17.33	...
3	Total suspended solid	mg/L	84	44	66.83	<100
4	Total dissolved solid	mg/L	1427	804	1032.00	...
5	COD	mg/L	147	51	107.33	<250
6	BOD 3 days, at 27 degree C	mg/L	21	10	15.00	<30
7	Chloride as Cl	mg/L	31	20	25.00	<1000
8	Sulphide as S	mg/L	0	0	#DIV/0!	<2
9	Sulphate as SO4	mg/L	48	28	35.00	<1000
10	Fluoride as F	mg/L	0	0	#DIV/0!	<2
11	Ammonical Nitrogen as N	mg/L	8	3	5.67	<50
12	Sodium as Na	%	0	0	#DIV/0!	NS
13	Copper as Cu	mg/L	0.3	0.2	0.22	<2
14	Zinc as Zn	mg/L	0.3	0.2	0.22	<5
15	Phenolic Compounds	mg/L	0	0	#DIV/0!	<1
16	Oil & Grease	mg/L	5	3	4.17	<10
17	Boron as B	mg/L	0	0	#DIV/0!	NS
18	Total Residual Chlorine	mg/L	0	0	#DIV/0!	<1
19	Arsenic as As	mg/L	0	0	#DIV/0!	<0.2
20	Cadmium as Cd	mg/L	0	0	#DIV/0!	<2
21	Total Chromium as Cr	mg/L	3	0.2	0.83	<2
22	Hexavalent Chromium as Cr+6	mg/L	0	0	#DIV/0!	<0.1
23	Lead as Pb	mg/L	0	0	#DIV/0!	<0.1
24	Selenium as Se	mg/L	0	0	#DIV/0!	<0.05
25	Mercury as Hg	mg/L	0	0	#DIV/0!	<0.01
26	Pesticides	mg/L	0	0	#DIV/0!	NS
27	Free Ammonia as NH3	mg/L	0.6	0.3	0.40	<5
28	Dissolved Phosphates as P	mg/L	1.4	1.1	1.25	<5
29	Total Kjeldahl Nitrogen as TKN	mg/L	5	2	3.42	<100
30	Cyanide as CN	mg/L	0	0	#DIV/0!	<0.2
31	Nickel as Ni	mg/L	1.2	0.2	0.40	<3
32	Residual Sodium Carbonate	mg/L	0	0	#DIV/0!	NS
33	Iron	mg/L	0	0	#DIV/0!	<3
34	Calcium as Ca	mg/L	73	38	56.00	NS
35	Magnesium as Mg	mg/L	10	3	6.00	NS
36	Potassium as K	mg/L	0	0	#DIV/0!	NS
37	Sodium Absorption Ratio	mg/L	0	0	#DIV/0!	NS
38	Carbonate	mg/L	0	0	#DIV/0!	NS
39	Bicarbonate	mg/L	0	0	#DIV/0!	NS
40	Total Nitrogen as N	mg/L	0	0	#DIV/0!	<10
41	Colour	Co-pt	0	0	#DIV/0!	NS
42	Bio assay	%	0	0	#DIV/0!	>90% survival in 96 hours
43	Particles size of total Suspended Solids in µ					
	1.0 µm	%	BDL	BDL	#DIV/0!	NS
	2.0 µm	%	BDL	BDL	#DIV/0!	NS
	3.0 µm	%	BDL	BDL	#DIV/0!	NS
	4.0 µm	%	BDL	BDL	#DIV/0!	NS
	5.0 µm	%	BDL	BDL	#DIV/0!	NS
	6.0 µm	%	BDL	BDL	#DIV/0!	NS
44	Total heavy Metal	mg/L	1.8	1.3	1.55	<03

BDL- Below Detection Limit

**Not Specified

* Monitoring is done by Moef recognised enviro-international lab.

**Monitoring period is from April'22 to Sep'22 on monthly basis.

Annexure 3 (Ground Water Analysis) April'22- Sep'22										
S.No.	Parameters	Unit	Monitoring Borewell 1	Monitoring Borewell 2	Monitoring Borewell 3	Piezo-meter Observation	Maximum	Minimum	Average	Standard Limit
1	Colour	Hazen	1	1	1	1	1	1	1.00	5
2	Turbidity	NTU	1	1	1	1	1	1	1.00	1
3	pH Value	..	7.2	7	7.5	7.2	7.5	7	7.23	6.5-8.5
4	Conductivity	mg/L	488	452	731	459	731	452	532.50	...
5	Total Suspended Solid	mg/L	<5	<5	<5	<5	0	0	#DIV/0!	...
6	Total Dissolved Solid	mg/L	399	382	650	416	650	382	461.75	500
7	Total Volatile Solid	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	...
8	Temperature	°C	23	23	23	23	23	23	23.00	...
9	Nitrate (as NO3)	mg/L	4	3	7	4	7	3	4.50	45
10	Ammonical Nitrogen as N	mg/L	BDL	BDL	BDL	BDL	0	0	#DIV/0!	0.5
11	Free Ammonia as NH3	mg/L	0.2	0.2	0.8	0.2	0.8	0.2	0.35	0.5
12	Total Kjeldahl Nitrogen as N	mg/L	ND	ND	ND	ND	0	0	#DIV/0!	...
13	Magnesium Hardness as Mg	mg/L	6	5	16	5	16	5	8.00	30
14	Calcium Hardness as Ca	mg/L	26	22	43	17	43	17	27.00	75
15	Total Hardness	mg/L	70	67	92	61	92	61	72.50	200
16	Sulphate as SO4	mg/L	10	15	29	11	29	10	16.25	200
17	Sulphide as S	mg/L	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05
18	Fluoride as F	mg/L	0.3	0.2	0.2	0.3	0.2	0.2	0.25	1
19	Chloride as Cl	mg/L	12	9	22	17	22	9	15.00	250
20	Total Chromium as Cr	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.05
21	Pesticides	µg/L	<0.005	<0.005	<0.005	<0.005	0	0	#DIV/0!	...
22	Alpha Emitter	Bq/L	ND	ND	ND	ND	0	0	#DIV/0!	1
23	Beta Emitter	Bq/L	ND	ND	ND	ND	0	0	#DIV/0!	0.1
24	Phenolic Compounds	mg/L	<0.001	<0.001	<0.001	<0.001	0	0	#DIV/0!	0.001
25	BOD	mg/L	<5	<5	<5	<5	0	0	#DIV/0!	...
26	COD	mg/L	<10	<10	<10	<10	0	0	#DIV/0!	...
27	Dissolved Phosphates as P	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	...
28	Residual Sodium Carbonate	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	...
29	Residual Free Chlorine	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	0.2
30	Phosphates	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	...
31	Potassium	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	...
32	Mineral Oil	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	0.5
33	Oil & Grease	mg/L	<1	<1	<1	<1	0	0	#DIV/0!	...
34	Alkalinity	mg/L	114	121	141	111	141	111	121.75	200
35	Sodium	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	...
36	Selenium (as SE)	mg/L	<0.01	<0.01	<0.01	<0.01	0	0	#DIV/0!	0.01
37	Boron as B	mg/L	<0.2	<0.2	<0.2	<0.2	0	0	#DIV/0!	0.5
38	Cadmium as Cd	mg/L	<0.003	<0.003	<0.003	<0.003	0	0	#DIV/0!	0.003
39	Total Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	0	0	#DIV/0!	0.01
40	Chromium as (Hexavalent Cr+6)	mg/L	<0.03	<0.03	<0.03	<0.03	0	0	#DIV/0!	0.05
41	Lead as Pb	mg/L	<0.01	<0.01	<0.01	<0.01	0	0	#DIV/0!	0.01
42	Nickel as Ni	mg/L	<0.02	<0.02	<0.02	<0.02	0	0	#DIV/0!	0.02
43	Mercury as Hg	mg/L	<0.001	<0.001	<0.001	<0.001	0	0	#DIV/0!	0.001
44	Cyanide as CN	mg/L	<0.02	<0.02	<0.02	<0.02	0	0	#DIV/0!	0.05
45	Cobalt	mg/L	<0.001	<0.001	<0.001	<0.001	0	0	#DIV/0!	...
46	Iron (as Fe)	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	0.3
47	Aluminium (as Al)	mg/L	<0.03	<0.03	<0.03	<0.03	0	0	#DIV/0!	0.03
48	Copper (as Cu)	mg/L	<0.02	<0.02	<0.02	<0.02	0	0	#DIV/0!	0.05
49	Manganese (as Mn)	mg/L	<0.05	<0.05	<0.05	<0.05	0	0	#DIV/0!	0.1
50	Zinc (as Zn)	mg/L	<2	<2	<2	<2	0	0	#DIV/0!	5
51	Dissolved Silica as SiO2	mg/L	BDL	BDL	BDL	BDL	0	0	#DIV/0!	<1
52	Particles size of total Suspended Solid in µm									
	1.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...
	2.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...
	3.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...
	4.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...
	5.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...
	6.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...
	7.0 µm	%	ND	ND	ND	ND	0	0	#DIV/0!	...

BDL- Below Detection Limit, ND - Not Detected
 * Monitoring is done by MoEF recognised enviro-international lab
 **Monitoring period is from April'22 to Sep'22 on quarterly basis.

Annexure 4 (Ambient Noise Monitoring Analysis Sep'22)

Sr. No.	Ambient noise monitoring locations	Unit	Day	Standard limit
1	Gate no. - 2	dB	62	75
2	Gate no. - 3	dB	58.1	75
3	New Aeration-ETP area	dB	60.9	75
4	Contractor area	dB	64.7	75
5	DC area	dB	53.5	75
6	BSR area	dB	62.1	75
7	Solvent area	dB	60	75
8	Near Old Admin	dB	65.9	75
9	Near Resin House	dB	62.2	75
10	Gate no. - 4	dB	60.8	75

Sr. No.	Ambient noise monitoring locations	Unit	Night	Standard limit
1	Gate no. - 2	dB	53.8	70
2	Gate no. - 3	dB	55.1	70
3	New Aeration-ETP area	dB	57.9	70
4	Contractor area	dB	60.3	70
5	DC area	dB	56.4	70
6	BSR area	dB	51.8	70
7	Solvent area	dB	49.3	70
8	Near Old Admin	dB	46.8	70
9	Near Resin House	dB	45.1	70
10	Gate no. - 4	dB	46.3	70

* Monitoring is done by MOEF Enviro International lab. **Monitoring period is from April'22 to Sep'22 on six monthly basis.

Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP)

In reference to the directions of MoEF&CC dated 18/07/2022, in order to ensure the compliance of Notification published by MoEF&CC on 30/06/22 which mandated the use of identified Single Use plastic items, we hereby put in a report of all the steps taken by us for Sensitization of employees and implementation of ban on Single Use Plastic (SUP) –

1. Circulation of emailers to all employees regarding the ban on single use plastic along with the item's details:

Prohibiting Production, Stocking, Distribution, Sale & Use of Single Use Plastic (SUP) Items

Ayush Sharma
 To: Rakshit Dua, Qazi Zafar Jamal, Srajan Jain, Sandip Prasad, Kasma Managerial Team
 Cc: Rajveer Rathore, Sachin Bhatnagar

You forwarded this message on 10/3/2022 10:16 AM.

Attachments: Plastic-Waste-Management-Amendment-Rules-2022-1.pdf (2 MB), PWM Rule 2016 (as amended 2022).pptx (1 MB)

Characteristics: Internal

Dear M,

Ministry of Environment, Forest & Climate Change has issued notification No. G.S.R. 573 (I) dated 12th August, 2022 vide which manufacture, import, stocking, distribution, sale and use of following single use plastic (SUP), including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st July, 2022.

Q) For items with plastic sticks, plastic sticks for balloons, plastic for bags, candy ribbons, no carbon sticks, polystyrene (Thermocol) for discs or plates.

R) Plastic coast glasses, coffee saucers, fork, spoons, knives, straws, trays, no slipping or peeling films around server bases, insulation covers, and cigarette packets, plastic or PVC banners less than 100 micron, etc.

Please note, as per Rule 4 (2) of PWM Rule 2016 (as amended) "Large bag made of paper or recycled plastic, shall not be too severely hot or cold in its storage with effect from the 30th September, 2021 and one hundred and twenty (120) microns + thickness with effect from 31st December, 2021.

In line with the above rules, please find below the list of banned items as applicable to Kasma plant along with responsibility matrix:

Sr. No.	Banned Single Use Plastic Items	Responsible Department	Responsible Person
1	Drinking water PET/PETE bottles having a liquid holding capacity less than 250 ml	HR	Chait Singh
2	Plastic covered water jugs	HR	Chait Singh
3	Plastic bags and/or food tainers	HR/Stores	Chait Singh
4	One time use Single use disposable items made of thermocol (polystyrene or expanded polystyrene), paper, paper, paper, glass, foil, metal & containers	HR/Stores	Chait Singh
5	Disposable plastic used for packaging food & drink items	HR/Stores	Chait Singh
6	Any Compostable plastic bags except paper or any identification tags nature & handling of plastic waste	All Offices	All Section Managers
7	Use of plates & thermocol for dinner or any purpose	All Offices	All Section Managers

Please refer slide 7-11 of the attached presentation for more clarity on what is and what is not allowed. We will also be circulating an awareness message on the same details of which will be shared soon.

Please ensure that plastic waste made of thermocol, recycled plastic, metal and having a thickness of more than 50 microns used for wrapping the material at the manufacturing stage or stage of part of manufacturing is allowed. Any thermocol used for wrapping the material at manufacturing stage should get manufacturer's details, type of plastic and serial number at buy-back price under ETP is allowed. This was also one of the points which was shared during the BMS Audit.

Please reach out to me for any clarification on the above.

Kind regards,

Ayush Sharma has been classified **Internal** by Ayush Sharma on Thursday, September 15, 2022 at 10:49 AM

2. Addition of clause on restricting single use plastic in purchase orders.

- **COMPLIANCE WITH LAWS:**
- The Supplier shall discharge all statutory obligations cast upon it and shall undertake to comply with all the applicable statutes inter alia any civil, municipal, labour, environmental, construction, economic, tax laws, relating to the supply of material forming the subject matter of this Contract and confirms that APL and /or its officials shall in no way be responsible for any action/claim/loss/damage and/or legal consequence arising from any violation, breach or infringement of applicable laws, rules and regulations.
- Plastic Waste Management Rule 2016 & Plastic Waste Management (Amendment) Rules, 2022
- We encourage our suppliers to reduce plastic usage for packaging requirement. In case nature of supply requires plastic packaging, supplier needs to ensure that plastic used is of thickness greater than 50 microns.
- Any legal obligations related to non-compliance with Plastic waste management rules 2016 & Plastic Waste Management (Amendment) Rules, 2022 is sole responsibility of supplier.

3. Awareness created through conducting online webinar to all employees and their families.

RE: Rethinking Plastic Usage - Register Now!



Sustainability Cmnid

To: Gaurav

Cc: Astha Walia; Vivek Khanchandani



Fri 8/19/2022 12:22 PM

Hi,

We are almost a day away from the Trash Talks, where we will be talking about Rethinking Plastic Usage.
#SustainabilityStartsWithMe

We're excited to have you join us for this event!

About the Webinar: Over 8.3 billion tonnes of plastic have been produced since 1950, and about 60% of that has ended up in landfills or in the natural environment. Plastic waste, whether in a river, an ocean, or on land can persist in the environment for centuries, hence by 2050, the amount of plastic in seas and oceans across the world will weigh more than the fish. Isn't it time to switch to more eco-friendly products and find ways of living sustainably?

If you are as concerned about the plastic pollution crisis as much as we are, then this webinar is for you!

Participate in a conversation where we discuss the environmental impact of the Plastic Problem and what we can do about it, alternatives for single-use plastic, how one can contribute and re-purposing plastic into planters and other decors- is that really sustainable?

Place for this fun yet informative webinar on Rethinking Plastic Usage is going away, so RSVP right away to save your seat.
This webinar is open for all. Please join in with your family and friends

To register, [CLICK HERE!](#)

Rethinking Plastic Usage - Register Now!



Sustainability Cmnid

To: Gaurav

Cc: Astha Walia; Vivek Khanchandani



Wed 8/17/2022 3:48 PM

Hi!

Hurry up and Register for the 'TRASH TALKS' webinar -20th August 2022; 3:00 - 4:00 pm IST.

Join us on the live webinar on "Rethinking Plastic Usage" to learn about:

- The Plastic Problem and what we can do about it.
- Alternatives for Single-use plastic.
- Re-purposing plastic into planters and other decors- is that really sustainable?
- How you can contribute?

It's time for you to start living life in a sustainable way.

