Annexure-II

COMPLIANCE REPORT

Project Code – UP-2-37-90

NAME OF PROJECT	Indorama India Private Ltd , Jagdishpur	
CLEARANCE LETTER NO.:	21/15/84-EN-I issued on 8.1.1985* J 11011/314/2006-IA-II(I) issued on 13.7.2007	

PERIOD OF COMPLIANCE REPORT October -22 – March -23

* All the conditions specified in the Environment clearance letter issued at the time of project stage in 1985 had been completed & complied.

Detailed compliance status of EC (J11011/314/2006-IA-II(I) issued on 13.7.2007) issued for debottlenecking of the project to enhance urea production capacity up to 3360MTPD is given here under.

A - SPECIFIC CONDITIONS

Sr No	CONDITION	COMPL	IANCE STA	TUS	
i	There shall be no addition of air pollution load to the expansion.	In Compliance. Condition amended vides Letter No. J 11011/314/2006-IA-II (I) dated 24.9.2008 by MOEF to delete "no addition of air pollution load". NOx & SOx are well within the prescribed limit of SPCB. Trend of emission from the stacks are as below for the period of October-22 – March -23:			
			SGP stack	GT stack	Primary Reformer
		NOx	74 - 82	77-83	174 – 184
		Sox	ppm BDL	ppm BDL	ppm BDL
		Prilling		DDL	BDL
		Filling	Min	Max	Average
		SPM	34 mg/nm3	40 mg/nm3,	36.58 mg/nm3
		NH3	36 ppm	44 ppm	39.53 ppm
			L		·
ii	The gaseous emissions (SO ₂ NO _x NH ₃ HC, VOC, Urea Dust & Fluoride) and particulate matter from various process units shall conform to the prescribed norms by the concerned authorities from time to time. At no time, the emission levels shall go beyond the	In Compliance. Condition amended vides Letter No. J 11011/314/2006-IA-II(I) dated 24.9.2008 by MOEF to delete "VOC & F from emission gases". Please refer compliance status at Sr.No. i for analysis results from different stacks.			

	stipulated standards. The stack height shall be as per the CPCB guidelines. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.	Safety interlock system is in place to take care of safety of man, machine, material, process, equipment and environment. This safety interlock system will safely shutdown the section of the plant / whole plant / any machine, if any parameter goes beyond the set parameters as prescribed by OEM / technology supplier.	
111	To limit various pollutants within the prescribed limits, multiple scrubbing systems along with a stack of 50 m shall be provided The stack height of DG sets will be 13 m.	In Compliance. Condition amended vide Letter No. J 11011/314/2006-IA-II(I) dated 24.9.2008 by MOEF to delete "multiple scrubbing systems" . The existing stack height of DG sets is already as specified in the condition.	
iv	In Urea Plant, particulate emissions shall not exceed 50 mg/nm3. Monitoring of Prilling Tower shall be carried out as per the CPCB Guidelines. Hydrocarbon Monitors shall be installed.	In Compliance. Condition amended vides Letter No. J 11011/314/2006-IA-II(I) dated 24.9.2008 by MOEF to "delete requirement for installation of Hydrocarbon monitor in Prilling Tower". Average SPM in emissions from Prilling Tower for the October-22 – March -23 is 36.58 mg/NM3.	
V	Regular monitoring of ambient air quality shall be carried out. The location of existing ambient air quality monitoring stations shall be reviewed in consultation with the state Pollution Control Board and additional stations shall be set up if required. It shall be ensured that stations are in the downwind directions as well as where maximum ground level concentration are anticipated.	 Ambient air quality is being done from Nos. Air monitoring stations. In the year 2019 & 2020, we have developed one station among the three stations for continuous online ambient air quali monitoring system of PM-10, PM-2.5, NH NOX and SOX parameters, at down wird direction. Existing AAQ stations have been reviewed by the SPCB vide their letter No. 330/A monitoring/08-09 dated 6.8.2008 based of which AAQ station No.2 has been relocated as per recommendation of SPCB and AA Station no-03 also has been relocated to the SPCB vide their letter No. 638/I-2/11-1 	
vi	Fugitive emissions in the bagging plant shall be controlled through two wet de- dusting systems. Urea dust laden air from various dust emission points will be sucked through and sent to the venturi scrubbers. The scrubber liquor will be sent for urea recovery system and urea plant. Cyclone separators/Bag Houses will be provided at transfer	dated 30.11.2012. In Compliance. Wet de dusting system is in place & working satisfactory. Dust collected at different points is reprocessed in Urea plant.	

	points for controlling dust. Dust		
	collected at these points will be reprocessed in the urea plant.		
vii	The fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored as per the guidelines of CPCB and data shall be submitted to the concerned authorities. The fugitive emission shall be controlled and conform to the limits prescribed by the CPCB in future.	In Compliance. Ammonia & SPM are being monitored around work zones as per schedule and all are maintained well below the specified norms. Reports are being submitted to concerned authorities on monthly basis.	
viii	Total water requirement shall not exceed 905 m3/hr which will be sourced from River Gomti and deep borewell. A copy of the water withdrawal permission shall be submitted to the Ministry.	In Compliance. Average Water consumption sourced from River Gomati & bore well (Factory) is 746.74 M3/hr during the period of October-22 – March-23. Water withdrawal permission as issued by Irrigation Department has already been submitted at MOEF on 28.9.2007.	
ix	The total wastewater generation shall not exceed 4680 m3/d. 61 m3/hr will be the additional effluent. The effluent shall be treated as per the discharge standards under E(P)Act 1986 and/or provided by the State Board, whichever is most stringent. The treated effluent shall be reused in the process and for Green Belt development. The Unit shall endeavour to achieve zero water discharge.	In Compliance. Industrial waste water and domestic waste water generation for the period of October-22 – March -23 were 1018.06 M3/day (avg.) and 561.76 M3/day (avg.) respectively. All Domestic waste water generated is being utilized for irrigation purposes. Effluent discharge standard is strictly followed & Efforts are being done to maximize reuse of effluent in greenbelt area. Irrigation lines are further extended in township to maximize reuse of treated effluent.	
Lx	Regular monitoring of ground water by installing piezometric wells around the guard pond and sludge disposal sites shall be periodically monitored and report shall be submitted to the concerned Regional Office of the Ministry, CPCB and SPCB.	 In Compliance. Four Nos of Digital ty telemetry piezometers are installed as p guidelines of Ground Water Department the complex & water samples of ha pumps located in nearby area are al analyzed. Six monthly reports a submitted to concerned agencies regular Summary of Ground water analysis for t period of October -22 – March -23 is as under pH : 7.10 – 7.70 Nitrate as N : N.T – 0.90 ppm Fluoride as F : 0.40– 0.60 ppm Ammonia as NH3: N.T. 	
		Phosphate as P : N.T	
xi	No solid waste shall be generated from the expansion project. Activated carbon, Spent Catalysts and Used Oil will be stored in HDPE bags and sold to	In Compliance. Used oil & spent catalyst generated in the process are kept safely as per guidelines & sold to "Authorized Reprocessors" only. Used batteries from	

	end users. Spent catalysts based on Chromium, Copper, Nickel Zinc, Aluminum and Iron will be stored in metallic drums at designated place and sold to the re-processors authorized by CPCB/SPCB. Used oil will be stored in leak proof steel drums for sale to registered recyclers. Used Batteries shall be sold to authorized reprocessors.	battery bank after replacement are sold to supplier under buy back scheme.
xii	All safety precautions as submitted to Ministry shall be installed and undertaken. Adequate protection measures for the handling of Ammonia vapours in case of process upset condition shall be undertaken. Safety well exhaust and drains shall be connected to a separate close header from which ammonia vapours shall be vented from vent stack after diluting the stream.	In Compliance. System already is in place.
xiii	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000 and Hazardous Wastes (Management and Handling) Rules, 2003 along with the Emergency Preparedness Rules. Authorization from the state pollution Control Board must be obtained for collection/ treatment/ storage/ disposal of hazardous wastes, if any.	In Compliance. Authorization issued by UPPCB is valid up to 20.02.2024
xiv	The company shall strictly follow all the recommendations mentioned in the charter on corporate Responsibility for Environmental Protection (CREP).	In Compliance. All CREP conditions applicable to us like water consumption of max. 8 M3/te of Urea, Dryness of storm water drain channels, ground water monitoring, safe disposal of catalyst is completed & in compliance.
xv	The company shall install rainwater harvesting systems from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	In Compliance. Ground water department (GWD) informed vide their letter No. 77/GW khand-5-Sul/RWH dated 6.5.2005 that rainwater harvesting system installed at IGF will not be fruitful due to sufficient water table in their area. Letter from GWD already submitted at SPCB.
xvi	Total green belt area will be 116.61 ha after the expansion.	In Compliance. We maintain the green belt coverage & greenery more than area 33% of total land.
xvii	Occupational Health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	In Compliance. Occupational Health surveillance of employees was carried out in regular interval. No employee was found suffering from any occupational disease.

B - GENERAL CONDITIONS

Sr	CONDITION	COMPLIANCE STATUS			
No	CONDITION	COMPLIANCE STATUS			
i	The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.	In Compliance. Stipul are being complied.	ations	applica	ble to us
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted.			
iii	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.	In Compliance. Monito effluent are already th been reviewed by UPPO 330/Air monitoring/08 Regular monitoring is b parameters.	ere & CB vide -09 d	same their lated	have also letter No. 6.8.2008.
iv	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	In Compliance. Recom complied.			
 Industrial waste- water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 31st December 1993 or as amended from time to time. The treated waste- water shall be utilized 	In Compliance. Treat monitored regularly discharge. Statistical analysis for the period o as under: All result specified norms of SPCB	by II data f Octobe s are	PL lal of fina er22 – N well w	b before I effluent larch -23 is vithin the	
	for plantation purpose.	Parameter	Re Min.	sult in Max.	Avg
		рН	7.10	7.80	7.36
		Total Suspended solid	37.00	57.00	44.41
		TAN	8.00	39.00	23.10
		TKN Free Ammonia	17.00 N.T.	57.00 1.65	38.00 0.42
		Oil & Grease	N.T.	N.T.	0.42 N.T.
		Nitrate Nitrogen	4.00	9.00	7.86
		Phosphate as P	0.70	1.90	1.34
		COD	15.00	28.00	22.02
		BOD	9.00	14.00	10.70
		Lead (as Pb)	N.T.	N.T.	N.T.
		Copper (as Cu)	N.T.	N.T.	N.T.
		Zinc (as Zn.)	0.10	0.53	0.33
		Nickel (as Ni)	N.T.	N.T.	N.T.
		Fluoride (as F)	0.76	1.10	0.93
		Sulphide (as S)	0.010	0.011	0.010
		Iron (as Fe)	0.10	0.38	0.17
		Vanadium (as V) Bioassay test for 90%	N.T. Pass	0.10 Pass	0.096 Pass
		survival after 96 hrs. N.T – Not Traceable Elements like As, Hg, Phenolic compounds & are not applicable to us.	Radio		

		Treated effluent is being utilized up to best possible extent for irrigation purpose in the plant and township.
vi	The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hood, silencers, enclosures etc. on all sources of noise generation.	 In Compliance. Overall noise level is 72.45/44.72 dB during the period of October-22 – March -23, which is well within the specified norms. PPEs are provided to employees for movement in compressor area.
vii	Proper House keeping and adequate occupational health program shall be taken up. Regular Occupational Health Surveillance Program shall be carried and records shall be maintained properly for at least 30-40 years. The program shall include lung function and sputum tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	In Compliance. Lungs & sputum test is being carried out for those employees who are working in fume and dusty environment in occupational health checkup program. Sufficient measures are taken to avoid exposure to dust.
Viii	A separate environment management cell with full fledge laboratory facilities to carry out various management and Monitoring functions shall be setup under the control of a senior executive.	In Compliance. Environment management cell is in place with well equipped laboratory & working well under control of Chief Operating Officer.
ix	Rs.43.80 lakhs and Rs. 94.67 lakhs/annum have been earmarked to meet the capital cost and recurring cost/annum for the environmental protection measures. The amount needs to be raised in view of the Capital cost of expansion and the revised amount shall be submitted to the Ministry. The amounts so earmarked shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	In Compliance.
X	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of the project area.	In Compliance. Indo Gulf Jan Seva Trust (IGJST) is working since inception for upliftment and welfare of nearby rural population like medical care, providing artificial limbs to handicapped, eye care camps, leprosy eradication etc. In addition to it, Jan Seva Trust also extends their helping hands in collaboration with NGOs for development of Infrastructure like School, Kharanza etc. in villages and improvement of there livelihoods.

· ·		
xi	The concerned regional Office of this	In Compliance. Monitoring data has been
	Ministry / State Pollution Control	provided in respective column of the conditions,
	Board / Central Pollution Control	wherever required.
	Board shall monitor the	
	implementation of the stipulated	
	conditions. Six monthly compliance	
	status report and monitoring data	
	along with statistical interpretation	
	shall be submitted to them regularly	
	and shall be placed on the Website of	
	the Company.	
xii	The project proponent should	In Compliance. Information had been
	advertise in at least two local	published in two news papers, Dainik Jagran &
	newspapers widely circulated in the	Rashtriya Sahara on 19.7.2007 & also informed
	region around the project, one of	to MOEF, Regional office – Lucknow on
	which shall be in the vernacular	25.7.2007.
	language of the locality concerned	
	informing that the project has been	
	accorded environmental clearance by	
	the Ministry and copies of the	
	clearance letter are available with the	
	state Pollution Control Board /	
	Committee and may also be seen at	
	Website of the Ministry and Forests at	
	http://envfor.nic.in. The	
	advertisement should be made within	
	7 days from the date of issue of the	
	clearance letter and a copy of the	
	same should be forwarded to the	
	concerned Regional Office of the	
	Ministry.	
xiii	The Project Authorities shall inform	In Compliance.
	the Regional Office as well as the	
	Ministry the date of financial closure	
	and final approval of the project by	
	the concerned authorities and the	
	date of start of land development	
	work.	