	EC Compliance Report dated 01.01.2016 (IPA and Gas Based Power Project)				
Sr. No.	Specific Conditions	Status of Compliance as per Letter from MoEF dated 23.09.2013.	Remarks		
1	The gaseous emissions (SO2, NOx, NH3 & HCI) and particulate matter from various process units shall confirm to the standards prescribed by authority. At no time the emissions shall exceed the prescribed limits. Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation until the desired efficiency has been achieved.	Partly Complied: It was submitted that emissions are within prescribed standards. Stacks are numbered & heights are as per CPCB guidelines & monitored regularly with help of third party monitoring. However, continuous monitoring system was not installed to ensure emissions are within limits at all times. Reports do not show any anomaly.	 There is no stack in IPA Plant. Gas Turbine stacks are regularly analysed by MOEF Recognised M/s Gadark Lab Pvt Ltd. Latest analysis reports attached at <u>Annex 1</u> 		
2	AAQ monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	Complied . Three numbers of online Ambient air monitoring stations were installed & in operation as per NAAQMS norms and connected to MPCB control room as submitted.	Continued to maintain. <u>Annex 2 -</u> AAQMS Average Values		
3	Fugitive emissions in the work zone environment, product and raw material storage area shall be regularly monitored. The emissions shall confirm to the limits imposed by SPCB / CPCB.	Partly complied: PA has submitted that fugutive emissions are being monitored regularly and confirmed within SPCB/CPCB norms. The monthly reports, as submitted, were not found in conformity with condition. However, sensors were installed for ammonia, chlorine, IPA & hydrocarbon & readings of LEL were taken as fugitive emissions.	 Ten On line detection sensors for hydrocarbon leak sensing are mounted in IPA Plant and storage area. Location report attached as <u>Annex:3.</u> Any leak identified is taken care on top priority. LEL sensors are fixed at GT-3,4 & 5 for leak detection. 		
4	Total water requirement should not exceed 2800 m3/day as per permission accorded by MIDC. Further, efforts shall be made for further conservation of water and utilization of waste water.	Complied: It was observed from the records & learnt during the visit that consumption of water is within limits.	Continued to maintain.		

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5	The effluent generation shall not exceed 667 m3/day. All the effluent shall be treated in the ETP and shall be monitored for the pH, SS, TDS, O & G, BOD, COD, Phosphates & ammonical Nitrogen & other relevant parameters. All the treated effluent shall be sent to CETP at Taloja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant.	Complied : It was observed from records & learnt during the visit that generation of effluent is within limits. The monitoring reports, as submitted, do not show any anomaly.	Continued to maintain.
6	The company shall undertake following Waste Minimisation measures: * Metering and control of quantities of active ingreditents to minimise waste * Reuse of by-product from the process as raw materials or as substitutes in other products. * Use of automated filling to minimize spillage * Use of close feed system into batch reactor * Venting equipment through vapour recovery system * Use of high pressure hoses for equipment cleaning to reduce waste water generation	Partly complied: Although PA has claimed that condition is complied. However, it was observed that certain measures like, Metering and control of quantities of active ingreditens, close feed system, use of high pressure hoses for equipment cleaning etc. have been implemeted. Indeed, no comparative details for minimization of generation of waste reuse of by-products etc., were made available.	As noted metering and control of active ingredient is already in place. Moreover the company has taken detailed exercise in reuse of waste/byproducts 1) Sale of DIPE since 2006. 2) DM plant alkaline regeneration water is recycled to cooling tower. (Since 2011). 3) Process effluent from IPA plant after treatment in a aerobic digester is recycled as Cooling tower make up . 4)Propane is recovered from propylene supply, which is sold as byproduct. 5)Steam is recovered in HRSG system from all GTs

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	shall be carried out on regular basis and records shall be maintained as per the Factories Act.	employees have been provided medical facilities as per Factories Act.	
11	Occupational health surveillance of the workers	Complied: It was submitted that all the	Continued to maintain.
		were not submitted.	
		expenditure, survival rate, species names etc.,	
		saplings have been grown. GB development plan was submitted after the visit. Other details such as	
	green belt shall be as per CPCB guidelines.	green belt is unsatisfacotry although few hundred	details are attached <u>Annex:5</u>
	emission all around the plant. Development of	However, it was observed that development of	expenditure, survival and species
	plant area to mitigate the effcts of fugitive	available open land is under green cover.	plantation photograph,
10	Development of green belt area (25%) of the	Partly Complied. PA has claimed that 33% of	Green development and
	water for recharge of ground water.		in progress.
	water harvesting structures to harvest runoff		Roof Top Rain Water Harvesting is
9	Company shall develop surface/roof top rain	Not Complied. PA has not complied this condition.	Process of Implementation of
	of hazardous wastes.	autorisation under HWMH Rules.	
	for collection, treatment, storage and disposal	route was not identified. PA has obtained an	
	Authorisation from the SPCB shall be obtained	has been prepared as submitted. But, escape	
	Rules, 2003 as amended from time to time.	, , , , , , , , , , , , , , , , , , , ,	on the roads at various locations.
	in October, 1994 and January 2000 and HWMH	installed for ammonia, chlorine, IPA &	assembly points. Boards displayed
	guidelines under MSIHC Rules, 1989 as amended	of MSIHC Rules have been followed. Sensors were	Routes are identified towards
8	The PA shall strictly comply with the rules and	Partly Complied: It was submitted that provision	In case of Emergency, Escape
		not submitted	
	shall be sold to authorised re-processer.	authorised re-processor. However, details were	attached as <u>Annex:4</u>
	landfill at the site. Spent catalyst and used oil	spent cataluyst and used oil shall be sold to	Waste Returns for 2014-15) is
	The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured	Partly Complied: PA has submitted that ETP sludge is disposed at TSDE as per condition and	Submission Receipt and Form 4 submitted to MPCB (Hazardous

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1	PA shall strictly adhere to the stipulations made by the MPCB	Partly Complied . The production, consumption of water & generation of effluent were found within limits as per reports submitted. However, submission of quantitave details of generation & disposal of HW, water balance, monitoring mechanism and six monthly compliance reports were not in accordance of conditions.	 Generation and disposal of Haz Waste report attached in Annex3 Cess return copy attached as <u>Annexure 6</u> showing details of water balance of consumption & effluent generation which is much below the MPCB consent limit. The above items are monitored and monthly reports are submitted regularly to MPCB.
2	At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation until the desired efficiency has been achieved.	Partly Complied . Although monitoring of stacks & AAQ have been carried out regularly but online monitoring are not carried out to ensure emission within limits at all time.	There is no stack in IPA Plant. Periodic testing of Gas turbine Heat Recovery and Steam Generation stacks by third party (MoEF Approved) is carried out. Reports attached as Annex:1. Actions are initiated for procurement and installation of online monitoring system for Heat Recovery and Steam Generation stacks.
3	No further expansion or modificaiton in the plant should be carried out without prior approval of this ministry. In case of deviation in the project, a fresh reference shall be made to the ministry to assess the adequqncy of conditions imposed.	Agreed to Comply . PA has assured to abide by the condition.	Noted and being followed.

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4	The overall <u>noise levels</u> in and around the plant area shall be kept within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. The ambient noise levels shall conform to the standards prescribed under the EP Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied . The monitoring reports do not show anomaly.	Continued to maintainNoise level measurement reports attached as <u>Annexure-7</u>
5	The PP shall also comply with all the environmental protection measures and safeguards proposed in the EIP / EMP report.	Partly Complied . Although PA has claimed that condition is complied but monitoring of fugitive emissions, rainwater harvesting, online monitors are yet to be achieved.	 For control of fugitive emmissions on line leak detectors Hydrocarbon/LEL are placed at strategiec locations in IPA Plant: Locations and Gas turbine area one each. Ref Annex;2 Process of Implementation of Roof Top Rain Water Harvesting is in progress. On line monitors for NOx are fixed in Nitric Acid plants.
6	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	Complied : It was submitted that EMC has been functional at site which is headed by DGM.	Continued to maintain.

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7	The PP shall earmark adequate funds to implement the conditions stipulated by the Ministry of Envornoment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Partly Complied . It was submitted that fund is utilised for implementation of environmental safeguard but details were not submitted	Budget and expenditure for EHS function is attached as <u>Annex: 8</u>
8	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area.	Partly Complied : IT was submitted that CSR activities were carried out through Ishanya Fondation Trust for rural development, women employment, health & education. However, details were not submitted.	CSR report copies for years 11- 12,12-13,13-14 and 14-15 attached as <u>Annex:9</u>
9	The implementation of the project vis-vis environmental action plan shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB six monthly compliance status reports shall be submitted to monitoring agencies.	Not Complied : Six monthly compliance reports were not submitted.	Six monthly compliance reports are being sent to state and central MOEF office. <u>Annexure 10</u> - Last four reports submitted to MOEF (acknowledgement copies) are attached.

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The PP shall inform the public that the project **Complied**. PA has advertised regarding grant of EC Continued to maintain. 10 as per the condition and copies have been has been accorded environmental clearance by the Ministry and copies of the letters are submitted to the Ministry. available with the SPCB / Committee and may also be seen at website of the Ministry at http:// envfor.nic.in. This shall be advertised within seven days from date of issue of the clearance letter atleast in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and the copy of the same shall be forwarded to ministry. The project authorities shall inform the Regional **Not Complied**. PA has not submitted details of submitted through DATA Sheet, 11 financial closure and approval as per the Office as well as Ministry, the date of financial copy attached as Annex 11 clossure and final approval of the project by the condition. concerned authorities and the date of start of the project. The Ministry may revoke or suspend the Agreed to Comply: PA has assured to abide by this Noted and being followed. 12 clearance if implementation of any of the above condition. condiitions is not satisfactory. The Ministry reserves the right to stipulate Agreed to Comply. PA has assured to abide by Noted and being followed. 13 additional conditions, if found necessry. The the condition. company in a time bound manner will implement these conditions.

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	14	The above conditions shall be enforced, inter- alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wates (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and	Complied . It is evident from the above that the implementation of environmental safefuards need sincere efforts. Moreover, submitssion of analytical reports and compliance needs attention. PA has obtained a policy under PLI Act as submitted.	Continued to maintain. <u>Annexure-</u> <u>12</u>
		rules.		
L	OTHER	CONDITIONS OF EC DATED 11.5.2011 FOR THERM		
	2	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution control board. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.		Ground water is analysed periodically. The analysis has not shown any variation in water quality. The latest reports are attached for your kind reference. <u>Annex 13</u> Continued to maintain.
	3	Regular mock drills for the on-site emergency management plan shall be carried out . Implementation of changes/improvements requried, if any, in the onsite management plan shall be ensured.	Partly Complied . Although on-site emergency plan has been prepared and mock drills are conducted as submitted but reports were not submitted. Moreover, escape route leading to assembly points was also not identified and marked at ground level.	Mock drills for On site emergency are conducted regularly. Report of such exercise are submitted to Directorate of Industrial Safety And Health (DISH). The latest five reports are attached. <u>Annex 14</u>

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4	A copy of the clearnace 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.	Complied . It was submitted that EC has been uploaded on the wbsite of the company any meeting for local NGOs and social workers were arranged for local partticipation on environmental awareness.	Continued to maintain.
5	The proponent shall upload the status of complliance 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 sectoral parameters, indicated for the project shall be monitored and displayed at a convenient placelocated near the main gate of the company in the public domain.		DFPCL Website is updated with compliance reports including analysis reports. Ambient air monitoring stations not only have a display at Factory gate, but it is also linked to MPCB server. (Refer Annex-2)

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	year ending 31st March in Form V as is u mandated to be submitted by the project y proponent to the concerned State Pollution N Control Board as prescribed under the r	uploaded Environmental Statement for financial year ending 31 st March in Form V as per condition. Moreover, EC compliance without analytical reports which were recently submitted to the ministry has been uploaded.	Environmental Statement in the form V for 2014-15 is submitted on MPCB website on 15 th September, 2015. Status of Compliance of EC alongwith analytical reports is being despatched to Regional Office Bhopal. Statement copy attached as <u>Annex 15</u>
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