



IG PETROCHEMICALS LIMITED

Ref: IGPL/JKS/2016/MoEF

Date : 01.08.2016

The Director
Ministry of Environment & Forests,
Paryavaran Bhavan,
CGO Complex,
New Delhi - 110 003

Sub: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Ref.: Environmental clearance granted for expansion of petrochemical unit, by MoEF
vides clearance no. J-11013/14/2007-IA II (I) dated: 12th June, 2007 & J-
11011/994/2007/IA (II) I, Dated: 03.12.2009

Dear Sir,

With reference to the above we are submitting herewith our half yearly compliance status report as per condition stipulated in environmental clearance for period of December, 2015 - May, 2016. We hope the above is to your satisfaction.

Thanking you,

Yours faithfully,
For IG PETROCHEMICALS LIMITED

(JK SABOO)
EXECUTIVE DIRECTOR

Encl : As above

CC to:

1. The CCF, Regional Office, Western Region, "Kendriya Paryavaran Bhavan" Link Road No, 3, Raishankar Nagar, Bhopal - 462 016 (M. P.)
2. The Member Secretary, Maharashtra Pollution Control Board, 3rd floor, Kalpataru Point, Sion, Mumbai - 400 022.
3. Central Pollution Control Board, Parivesh Bhavan, Opp. VNC Ward office No. 10, Subhanpura, Vadodara- 390023.
4. M/s Aditya Environmental Services Pvt. Ltd

Ref	EC No. J-11013/14/2007-IAII (I) dated 12.06.2007.
To	IG Petrochemicals Ltd, T-2, MIDC Talaja
For	Manufacture of Products like Phthalic Anhydride, Benzoic Acid and Power.
Status	Project Implementation started for PA - I in 1991 & PA- 2 in 1997 whereas Benzoic Acid recovery unit implemented from year 2011.

This Environmental Clearance was obtained for debottlenecking of plant for capacity 26110 TPA. Consolidated Consent to Operate for existing Plant PA -I & PA - II as well as for expanded PA - III plant is obtained. Now production is started.

Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of Environment & Forest, Government of India vide letter No. J-11013/14/2007-IAII (I) dated 12.06.2007.

A.	Specific Conditions:
i.	Due to this proposed de-bottlenecking, there will be a reduction in the generation of pollutants. The air pollution load will be reduce from 375.6 kg/hr to 366.50 kg/hr for PA-I and from 398.3 kg/hr to 336.40 kg/hr for PA-II. This will reduce the TOC in the scrubber outlet as inlet load will be reduced. Total DM water usage will be reduced from 3816 m³/hr to 3600 m³/hr due to reduced organics levels in the off gases.
√	TOC monitoring reports are enclosed under ANNEXURE -I
ii.	The DM makeup water will further be reduced to 2348 m³/month from 2434 m³/month. The total effluent generation from both the plants will reduce from 2304 m³/hr to 2088 m³/hr.
√	Data on Water Consumption is enclosed as ANNEXURE - II
iii.	There will be no change in the quantity of distillate residue generated. It will be disposed off as per the authorization from MPCB.
√	Data on Residue Generation enclosed as ANNEXURE -III
iv.	There will be no increase in Storage tanks.
√	There has been no change in Storage Tanks / Quantity
v.	All other conditions prescribed by Ministry at the time of expansion of PII will be prevail.

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PAI+PAII

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√	Yes-Compliance to conditions as per PA II expansion has been sent to MoEF- Western Region Office in Bhopal from time to time
vi.	Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained
√	Work zone monitoring reports are enclosed under ANNEXURE - I
vii.	Raw material will be stored in covered yards. Water sprinkling arrangement should be made in the raw material stock yard to control fugitive emissions.
√	Major Raw Material is o-Xylene which is liquid in nature. Stored in Storage tanks with sprinklers arrangement.
viii.	Acoustic enclosure will be installed to limit the noise levels below 85 dBA.
√	Enclosures have been provided at various Noise Generating locations. Monitoring Reports are enclosed under ANNEXURE - I
ix.	The company shall strictly follow all the relevant guidelines of CPCB given from time to time.
√	Agreed / Is being done
x.	25% of the total land area will developed as green belt.
√	Plan showing Green belt enclosed as ANNEXURE -IV
xi.	The company shall harvest surface as well as rainwater from the rooftops of the building proposed in the expansion project 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.
√	Offers have been received-will be implemented in next year
xii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.
√	Note on Occupational health surveillance programme enclosed as ANNEXURE - V

B.	General Conditions:
i.	The project authority must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and State Government.
√	Yes agreed
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
√	Agreed / OK
iii.	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four Ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the SPCB. It will be ensured that at least one monitoring station is set up in up-wind & down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and SPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.
√	Ambient Air Monitoring undertaken at nearby villages. Reports are enclosed under ANNEXURE - I
iv.	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.
√	Effluent monitored at intermediate stages of ETP. Inlet / Outlet of ETP monitored Reports are enclosed under ANNEXURE - I
v.	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 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
√	Analysis being done as per MPCB consent norms and has been extended to cover all parameters as per GSR 422 (E). Reports are enclosed under ANNEXURE - I
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 hoods, silencers, enclosures etc. on all sources of noise generation.
√	All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports are enclosed under ANNEXURE - I
vii.	Proper House Keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and

	contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.
√	Note on Health Surveillance enclosed as - ANNEXURE-V
viii.	A separate environment management cell with full fledge laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.
√	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer looks after safety related compliance.
ix.	Separate funds will be earmarked for the environmental protection measures and shall be used judiciously used 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.
√	Budget for Environment Protection is enclosed as ANNEXURE-VI
x.	Concerned Regional Office of this Ministry / SPCB / Central Pollution Control 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.
√	Ok
xi.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular 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 copy of the same should be forwarded to the Ministry's Regional Office at Bhopal.
√	Advertisement placed. Copy of advertisement is enclosed as ANNEXURE - VII
xii.	The project authority shall inform 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.
√	Not applicable as production change worked out on the basis of changing over to a high yield catalyst.

Ref	EC No. J-11011/994/2007/I A (II) I dt 03.12.2009
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
For	Expansion of Pthalic anhydride plant
Status	Project Implementation started in 09/04/2012.

A.	SPECIFIC CONDITIONS:
i)	The Company shall install full-fledged ETP to treat the process effluent and treated effluent after primary, secondary and tertiary treatment and confirming to the prescribed standards shall be sent to CETP for further treatment. The company shall construct a guard pond for treated effluent and shall carry out the bioassay test by collecting the treated effluent into guard pond before discharging into CETP. The reports shall be submitted to CPCB and Ministry's Regional Office at Bhopal.
	The existing ETP plant is under revamped to treat the additional load from the expansion before commissioning the Phase III plant. A guard pond is already provided in existing ETP. Bioassay test is already carried out on our effluent through third party MOEF recognized party. Company is already a Member of CETP and all effluents shall be disposed to CETP. The note on proposed revamping of ETP is enclosed as Annexure - XI
ii)	Process emissions in the form of HCl and TOC shall be controlled by installation of scrubbers. The company shall provide the monitoring arrangements with stack and regular monitoring shall be carried out and reports submitted to the SPCB, CPCB and Ministry's Regional Office at Bhopal. The gaseous emissions from the DG sets shall be dispersed through stack of adequate height as per CPCB / state pollution Control Board standards.
	Process emissions will be controlled by installing three stage scrubbers. Provision shall be made by installing port hole and monitoring will be done. DG sets are provided with stack height of 31 m which is as per the Consent granted to our unit. Monitoring reports for existing plants are being submitted to SPCB, CPCB and Ministry's Regional Office at Bhopal and same practice shall be continued for Phase III plant.
iii)	The proponent shall upload the status of compliance of the stipulated environmental clearance 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 State Pollution Control Board. The Pollutant levels namely, SPM, RSPM, SO₂, NO_x & CO (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
	We are uploading compliance data on our web site. We shall file 6 monthly returns to various Authorities as stipulated. We are regularly monitoring ambient air quality and stack emissions for our existing plants and same practice shall be followed for our Phase III plant. Display Board as specified by Honourable Supreme Court is put up at our Gate.
iv)	Fugitive emission in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by

	SPCB.
	We shall monitor the fugitive emissions at work place/shop floor as desired. The monitoring of work zone is carried out regularly in our Phase I and Phase II plants.
v)	The company shall explore the possibility of sending the spent carbon and bio sludge to the cement plant plants or spent carbon should be incinerated.
	Spent carbon is generated from ETP tertiary treatment process and thus unsuitable for burning in cement plants. Also quantity generated is very small (10 TPA max) and there is no Cement plant in 500 km distance from our unit. Hence we shall dispose this in CHWTSDF Taloja which is located in 2 km distance from our unit.
vi)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.
	We shall abide by this strictly. The site details are submitted to the DISH as they are the prescribed authority under the MSIHC Rules. Combined consent to operate / Authorization from MPCB for existing unit as well as expanded PA - III Plant is obtained (Annexure - XII). We shall abide by the conditions of the Authorisation. All hazardous chemicals/wastes are transported as per MVA, 1989 and through approved transporters of MPCB.
vii)	The project authority shall obtain the membership of TSDF for disposal of solid and hazardous waste and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.
	Yes complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste from Phase I and Phase II plants to TSDF. Copy of the membership certificate enclosed as Annexure - X
viii)	The company shall develop in land area of 35685 sq.ft, as per the CPCB guidelines to mitigate the effect of fugitive emissions.
	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt.
ix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant. Trained Male nurse is provided in all three shifts and Doctor visits the plant 2 hours every day as also we have tie up with local hospitals to attend to medical emergencies.
x)	The company shall make the arrangement for protection of possible fire hazards

	during manufacturing process in material handling.
	Complied- entire plant is covered by a hydrant system, which is provided with separate fire water reservoir and emergency pumps (diesel operated). Fire extinguishers are kept in various parts of the plant depending upon type of fire hazard likely.
xi)	The company shall comply with the recommendations made in the EIA/EMP and Risk Assessment Report
	We are abiding by the recommendations in the EIA/EMP and Risk assessment study.
B.	GENERAL CONDITIONS:
i)	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.
	Combined consent to Operate /Authorization from MPCB is obtained for existing unit as well as expanded PA - III plant (Annexure - XII). We shall abide by the conditions of the Consent /Authorisation and other stipulations.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alternations in the project proposal from those submitted to this \Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
	Yes, agreed.
iii)	At no time, the emissions shall exceed the prescribed limits. 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.
	Yes, agreed
iv)	The gaseous emissions (NO_x, SO₂ and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions level shall go beyond the stipulated standards. 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. Stack monitoring for SO₂, NO_x and SPM shall be carried.
	Regular stack / vent monitoring will be carried out, as is the practice in existing plants. We agree to comply stipulations as above.
iv)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the up wind and down wind directions as well as where maximum ground level concentrations are anticipated.
	Yes the ambient air quality monitoring is carried out regularly in existing plants and same practice will be continued in future.

v)	The overall noise levels in and around the plant area shall kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989 viz. 75 dBA (day Time) and 70 dBA (night time).
	Ambient and work place Noise level monitoring is carried out regularly in existing plants and same practice will be continued in future. We shall take all control measures as stipulated to control noise.
vii)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management & risk mitigation measures relating to the project shall be implemented.
	Yes agreed
viii)	The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration.
	Yes the company contributes to nearby Ashram / local village Grampanchayat as give below in item (ix) below.
ix)	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.
	Company is undertaking various community welfare measure for improvement of the environment as under: <ol style="list-style-type: none"> 1. Donation to Paramshanti Vridhasharam Trust, Taloja @ Rs.13,750/- per month 2. Donation to Blind Organization of India. 3. Donation to Sarvajani Durga Mata Navrathri Utsav, Ghot Village. 4. Donation to Hanuman Janmotsav, Ghot village.
x)	A separate Environmental Management Cell equipped with full fledge laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer looks after safety related compliance. Environmental laboratory set up in ETP to look after performance monitoring if ETP, All other sampling outsourced.
xi)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule fro all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
	Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in expansion project.

xii)	The implementation of the project vis-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.
	Yes- being done regularly.
xiii)	A copy of the clearance letter shall be sent by the proponent to concerned Panchyat, Zila Parishad / Municipal Corporation, Urban Local body and local NGO, if any from whom suggestions / representations, if any were received while processing the proposal.
	Yes –submitted to Ghot Grampanchayat.
xiv)	The project proponent shall also submit six monthly reports on the status of compliance of conditions stipulated E C conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and State Pollution Control Board.
	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant.
xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in. This shall be advertise within seven days from the date of issue of the clearance letter, at least two local Newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Ministry's Regional Office of the Ministry.
	Complied- advertisement was placed in media on obtaining the Environmental clearance.
xvi)	The project authorities shall inform 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 construction.
	The implementation of Phase III PA plant is done. Benzoic acid recovery project which envisages recovery of benzoic acid from residue and waste water is installed and commissioned- copy of combined consent to operate for all units enclosed- Annexure XII.
7)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory
	Yes, above condition is noted.
8)	The Ministry reserves the right to stipulate additional conditions. If found necessary. The company is a time bound manner implements these condtions.
	Yes, above condition is noted.

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PAIII

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9)	Any appeal against this environmental clearance shall lie with the National Appellate Authority, if proffered within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.
	Ok
10)	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of pollution) Act, 1981, The Environment Protection Act 1986, Hazardous Waste (Management & Handling) Rules, 2003/2008 and Public Liability Insurance Act, 1991 along with their amendments and rules.
	OK