

Ref	EC No. J-11013/14/2007-IAII (I) dated 12.06.2007.
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
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.

It is noted that the proposal is for capacity addition of 26,110 MTA of Phthalic Anhydride to the existing 90,000 TPA by change in catalyst on 'No- Increase in Pollution Load' basis. The technology for the plant has been supplied by Lurgi of Germany. The unit PA – I was installed in 1992 with a capacity of 45,000 MTA and PA – II was set up in 1997 with the same capacity. PA – II was undertaken after the Environmental Clearance from the ministry. The expansion the capacity is due the proposed use of a new generation catalyst supplied by BASF of Germany which will increase the yield of product. For this purpose, PA- I will need de-bottlenecking while PA- II will be in a position to handle the extra load. The Maharashtra Pollution Control Board has issued Consent to Establish for the project on 16.09.2006. The cost of the project is Rs. 04.68 Crores.

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. Actual production details as per listed below:

Product	As per Environmental Clearance	As per Consent to Operate (2015)	Actual Production 2017 - 2018	Remarks
Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA	169110MT/A	153161 MT/A	• We are well within the prescribed limit of EC & Consent
Benzoic Acid	1000 MT/A	1000 MT/A	747.8 MT/A	
Power (Exported)	2.5 MW	2.5 MW	NIL	

to Grid)				
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 is complied.				
<p>The project activity is listed at 5 (f) in the Schedule of the EIA Notification, 2006 and is of 'B' Category being in the industrial area and shall not require Public Hearing. Based on the information provided by you, the Ministry of Environment and Forest hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and Generation condition</p>				
OK. Above condition is noted.				
A.	Specific Conditions:			
i.	<p>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.</p>	<p>We are regularly monitoring Air pollution through MoEF recognized laboratory. TOC monitoring reports for last one year are enclosed under ANNEXURE -II.</p> <p>We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD</p>		
ii.	<p>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.</p>	<p>Yes, Agreed. Data on Actual Water Consumption & Waste Water Generation for last one year is enclosed as ANNEXURE - III</p>		
iii.	<p>There will be no change in the quantity of</p>	<p>Yes, Agreed. Data on Residue Generation for</p>		

	distillate residue generated. It will be disposed off as per the authorization from MPCB.	last one year is enclosed as ANNEXURE -IV
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 PA- II will be prevail.	Yes six monthly reports are being submitted regularly
vi.	Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained	Yes, Noted. Work zone monitoring reports for last one year are enclosed under ANNEXURE - II
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. Photograph showing designated storage area for storage of raw material: o-Xylene are enclosed as ANNEXURE - VI
viii.	Acoustic enclosure will be installed to limit the noise levels below 85 dBA.	Yes, Enclosures have been provided at various Noise Generating locations. Monitoring Reports for last one year are enclosed under ANNEXURE - II
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.	Yes, we have developed green belt in company premises. Plan showing Green belt enclosed as ANNEXURE - VII .

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.	Yes, we are in process of installation of Rain Water Harvesting (RWH). We have installed rainwater harvesting at two locations and these are in operation .
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.	<p>Yes, regular Occupational Health surveillance of the workers is carried out regularly as required under Factories act. A copy of form-VII Annual Medical Examination report of Workers is enclosed as <u>Annexure-VIII A & Annexure VIII</u></p> <p>Company has well equipped Occupational Health center (OHC) with two beds located in its admin building.</p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year.</p>

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. We have received Consent to Operate from Maharashtra Pollution Control Board vide no. Formate 1.0/ BO/CAC-Cell/UAN No. 30425/2 nd CAC/1806000105 Dated: 02/06/2018, Copy of same is enclosed

		as Annexure – XV.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
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.	We are regularly monitoring Ambient Air Quality Monitoring through MoEF recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises and nearby villages. Ambient Air Monitoring Reports for last one year is enclosed as ANNEXURE – II
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.	We are regularly monitoring effluent quality through MoEF recognized laboratory. Effluent monitored at intermediate stages of ETP. Inlet / Outlet of ETP monitoring Reports for last one year are enclosed under ANNEXURE - II
v.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422	Analysis being done as per MPCB consent norms and has been extended to cover all parameters as per GSR 422 (E). Reports are

	(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.	enclosed under ANNEXURE - II
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.	Yes, above condition is complied with. We have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for last one year are enclosed under ANNEXURE - II showing compliance to in plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
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.	<p>Yes, proper house keeping and adequate occupational health programs are taken up regularly. Occupational Health surveillance of the workers is carried out regularly as required under Factories act. Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Details of OHC provided at site are enclosed as <u>Annexure-VIII.</u></p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. Note on Occupational health surveillance programme enclosed as ANNEXURE - VIII</p>
viii.	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer

	functions shall be set up under the control of a Senior Executive.	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.	Yes, we have provided separate funds for Environmental Protection Measures and we affirm that same will not be diverted for any other purpose, Budget for Environment Protection is enclosed as ANNEXURE - IX
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.	Yes, we are regularly submitting six monthly compliance report to the ministry / SPCB / CPCB. Please refer ANNEXURE - V for last submitted six monthly compliance report.
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	Yes, we have advertised in two local newspapers in vernacular language's such as Marathi at Navshakti & in English at Free Press Journal. Copy of advertisement is enclosed as ANNEXURE - X .

	Ministry's Regional Office at Bhopal.	
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.
	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Yes, Agreed.
	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.	Yes. Noted.

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

It is noted that M/s. IG Petrochemicals Limited have proposed to increase the manufacturing capacity of existing petrochemicals complex. The unit is located at MIDC, Taloja in District Raigad in Maharashtra. It is proposed to set up Phthalic Anhydride plant with capacity of 53,000 TPA, recovery of 1000 TPA of benzoic acid and generation of 2.5 MW power for its own use and export to state Electricity Board Grid. The phthalic anhydride will be recovered in switch condensers. The existing area of the plant is 20,491 m² and additional area of 2522 m² is proposed for the expansion project. Cost of the project is Rs. 148 crores

The project has been completed in the year 2013.

Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of Environment & Forest, Government of India vide letter No. J-11011/994/2007/I A dated 03.12.2009.

It is noted that water requirement will increase from 2015 m³/day to 4117 m³/day which will be met from the MIDC supply. About 651 m³/day of effluent will be generated.

The water requirements and effluent generation are within stipulated limits. **REFER ANNEX III**

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 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 MOEF recognized third party. Company is already a Member of CETP and all effluents shall be disposed to CETP. The note on revamping of ETP is enclosed as ANNEXURE - XI . We have online emission and effluent monitoring system connected to CPCB and MPCB servers .Ref ANNEXURE XVI .
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	Process emissions are controlled by three stage scrubbers. Provision shall be made of sampling port hole and monitoring is being done. DG sets are provided with stack height of 31 m which is as per the Consent granted to our unit. Regular monitoring is carried out through MoEF recognized laboratory. Monitoring reports for existing plants are being submitted to SPCB, CPCB and Ministry's Regional Office at Nagpur .

	of adequate height as per CPCB / state pollution Control Board standards.	All stacks are connected to CPCB and MPCB OCEMS system.
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 from various stacks. Display Board as specified by Honorable Supreme Court is put up at our Gate. Please refer ANNEXURE - XII .
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 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. Please refer ANNEXURE - II .
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. Copy of MWML Membership Certificate is enclosed as ANNEXURE - XIII & Copy of Hazardous Waste Return submitted in form - IV for 2017 - 2018 is enclosed as ANNEXURE - XIV .
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.	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 & we have received renewal of same vide No. Formate 1.0/BO/CAC-Cell/UAN No.30425/2 nd CAC/1086000105 Dated: 02/06/2018 validity: 28.02.2018 to

	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.	31.08.2021 (Annexure - XV). We shall abide by the conditions of the Authorization. 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 - XIII .
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. Please refer ANNEXURE - VII for details of Green belt developed.
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. Please refer ANNEXURES - VIII & VIIIA
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 - XV). We shall abide by the conditions of the Consent /Authorization 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 through MoEF recognized laboratory, as is the practice in existing plants. We agree to comply stipulations as above. We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD
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 have taken all control measures as stipulated to control noise. REFER ANNEXURE II
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.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details
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: Refer ANNEX XVII for details
x)	A separate Environmental Management Cell equipped with full fledged 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	Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in expansion project.

	Environment & Forests as well as the State Government along with the implementation schedule from all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	
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 Panchayat, 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 six monthly reports are being submitted regularly
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	Complied- advertisement was placed in media on obtaining the Environmental clearance. Refers ANNEXURE X

	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.	
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 - XV
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 conditions.	Yes, above condition is noted.
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.	Yes, Noted.
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.	Yes, Noted.

Ref	EC No. J-11011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same dated 20th February 2018
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
For	Expansion of Petrochemical and synthetic organic chemicals manufacturing facility
Status	-----

Proposal is for expansion of petrochemical and synthetic organic chemicals manufacturing facility at Plot No. T-2, MIDCTaloja, Tehsil Panvel, District Raigad, Maharashtra by M/s I G Petrochemicals Ltd. (IGPL). Total land area is 1,13,282 m². Industry has already developed Green belt in an area of 10% i.e. 11,327.6 m² out of 1,13,282 m² of area of the project.

This Environmental Clearances was obtained for expansion of petrochemical and synthetic organic chemicals manufacturing facility with total proposed capacity of 72210 TPA. Consolidated Consent to Operate for existing Plant PA –I , PA – II ,PA – III&Benzoic Acid plant is obtained. Production is started for existing facility.

Production details of existing unit as per listed below::

Product	As per Environmental Clearance	As per Consent to Operate (2015)
Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA	169110MT/A
Benzoic Acid	1000 MT/A	1000 MT/A
Power (Exported to Grid)	2.5 MW	2.5 MW
*Maleic Anhydride	6500 MT/A	6500A

*** Maleic Anhydride manufacturing facility of Mysore Petro Chemicals Ltd located at plot T-1 was bought over by IG Petro Chemicals Ltd w.e.f 1 st April 2017**

Proposed Additional capacities of Products as per EC No. J-11011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018

Product	As per Environmental Clearance (MT/A)
Phthalic anhydride (PAN)(PA4 plant)	53,000
Benzoic acid (capacity increase of existing plant)	750
Maleic Anhydride (MA4 plant)	1160
Power (Export to grid)	--
Di ethyl phthalate (DEP)	12600
Di methyl phthalate (DMP)	
By Products	
Sodium sulphate	900
Phthalic acid	800
Monoester salts	3000

Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of Environment & Forest, Government of India vide letter No. J-11011/73/2016-IA-II (I), Dated: 18th July, 2017 & amendment in same is received on 20th February 2018 is as given below.

The project activity is listed at 5 (f) in the Schedule of the EIA Notification, 2006 and is of 'B' Category being in the industrial area and shall not require Public Hearing. Based on the information provided by you, the Ministry of Environment and Forest hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and Generation condition.

OK. Above condition is noted.

A.	Specific Conditions:	
i.	5000 trees shall be planted in five years in nearby villages. Survival rate of plants shall be reported to RO, MoEF & CC in 6	Yes, Agreed. We affirm that we will plant about 5000 trees in next five years towards

	monthly compliance report.	social responsibility of industry and survival report of plants will be reported to RO, MoEF & CC in six monthly compliance reports.
ii.	At least 1.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner.	Yes, 2 % (fig revised as per MOEFCC office memorandum F.No.22-65/2017-IA.III dated 1 st May 2018)) of the total cost of the project will be earmarked towards Enterprise Social Commitment. Sufficient budgetary provision will be made for health improvement, education, water and electricity supply etc. at nearby villages. Budgetary allocation made towards ESC /CERis enclosed as Annexure - IXX
F.No .65/ 201 7-IA		
iii.	A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.	Yes, Qualified staff with post-graduation in Environmental Science / Environmental Engineering is appointed for environmental management activities.
iv.	The unit shall adhere to zero liquid discharge (ZLD) . As per EC amendment dated 20th Feb 2018(ANNEXURE IXX) effluent discharge to CETP should be 220 m³/day	Yes, Agreed. Effluent generated from existing unit and proposed expansion will be treated and recycled within the plant for maximum extend & remaining treated effluent is restricted to 220 m ³ /day for final discharge to CETP. Upgradation involves installation MEE/RO for partial Effluent recycle.
v.	Continuous online (24 x7) monitoring to	Yes, we have installed continuous online

	be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF & CC, CPCB and SPCB.	(24*7) monitoring system for flow measurement and for measurement of pollutant from air emission within the unit. We have connected online emission monitoring system to CPCB / MPCB Server and data will be uploaded on company's website regularly. Refer Annexure – XVII for OCEMS dashboard
vi.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Yes, will be Complied with- entire plant will be covered by a hydrant system, which will be provided with separate fire water pump and emergency pumps (diesel operated) as per existing unit. Fire extinguishers will have kept in various parts of the plant depending upon type of fire hazard likely.
vii.	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 proposed unit. 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. REFER ANNEXURE VIII & VIIIA
viii.	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	We are having necessary permissions for existing plants. We have already applied to MPCB for CTE, which covers the requirement from the expansion plants. We are member of CHW-TSDF REF ANNEXURE XII

B.	General Conditions:	
-----------	----------------------------	--

i.	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority.	Combined Consent to Operate /Authorization from MPCB is obtained for existing unit as well as expanded PA - III plant (Annexure - XV). We have also applied for Consent to Establish from Maharashtra Pollution Control Board for PhthalicAnhydride/Maleic anhydride/Benzoic Acid expansion (Consent copy awaited from Board). We will abide by the conditions of the Consent /Authorization and other stipulations.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations 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. No further expansion or modification in the plant will be carried out without prior approval from MoEF.
iii.	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 upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We are regularly monitoring Ambient Air Quality Monitoring through MoEF recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises and nearby villages. Ambient Air Monitoring Reports for last one year is enclosed as ANNEXURE - II
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed	Yes, Agreed.

v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. 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).	Yes, we have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. Same practice will be carried out for proposed expansion (PA- IV). All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for last one year are enclosed under ANNEXURE - II showing compliance to in existing plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Yes, We have installed rain water Harvesting System (RWH) to conserve fresh water.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Yes, Training will be carried out of all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for regular basis.
viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA & EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Yes agreed. All Environmental Protection measures will be carried out as per documents submitted to ministry.
ix.	The company shall undertake all relevant	Yes, the company contributes to nearby

	measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Ashram / local village Grampanchayat.
x.	The company shall undertake eco-developmental 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. Donation to Hanuman Janmotsav, Ghot village.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment Management looked after by Vice President (Production), Manager (Env) and directly reporting to Executive Director. Separate Safety Officer looks after Safety related compliances. Environment Laboratory is set up in ETP to look after performance monitoring of ETP. All other sampling and analysis is outsourced from MoEFFCC approved laboratories
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Yes, Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in proposed expansion project.
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal	Yes, Agreed, we will arrange to send copy of Environmental Clearance letter to

	Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO,
xiv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as bye-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant.
xv.	The environmental statement for each financial year ending 31 st March in Form-Vas is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by email.	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant.
xvi.	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 the SPCB/ Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied- advertisement was placed in media on obtaining the Environmental clearance. Copy of Advertisement published in local news paper is enclosed herewith as Annexure - X for your ready reference.

xvii.	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 the project.	Yes, Agreed. Implementation of Phase – IV is under process. We will intimate to RO, MOEF for once implementation of project will be completed.
xviii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Yes, Noted.
xix	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Yes, Agreed.
xx.	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 and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Yes, Noted.