I G PETROCHEMICALS LIMITED

Date: 1st Dec 2020

The Director
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan, Aliganj, Jorbagh Road,
New Delhi – 110 003

Sub: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Ref.: Environmental clearances granted for expansion of petrochemical unit, by MOEF & CC vides clearance no.

1) **PA-I EXPANSION EC NO-J-11013/14/2007-IA II (I) dated: 12th June, 2007**
2) **PA-II EC NO -J-11012/78/96-IA dated 20th June 1997**
3) **PA-II & BENZOIC ACID EC NO- J-11011/994/2007/I A (II) I, Dated: 03.12.2009**
4) **PA-IV,MA-IV,BENZOIC ACID EXPANSION-PLASTICIZER EC NO J-1011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018**
5) **MA-III EC NO -J-11011/986/2007-IA –II(I) dated 2nd April 2008**

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 **Apr 2020 – Sept 2020.** We hope the above is to your satisfaction.

Thanking You,

Yours faithfully
FOR I. G. PETROCHEMICALS LTD

(AJIT BAGADE)
PRESIDENT OPERATIONS

I. G. PETROCHEMICALS LTD.

CC to:

1. **The CCF, Regional Office, Western Region, Ministry of Environment, Forests & Climate Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001**
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.**

Ref	**PA-I EXPANSION EC COMPLIANCE REPORT APR 2020 – SEPT 2020** **EC No. J-11013/14/2007-IAII (I) dated 12.06.2007.**
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
Status	PLANT EXPANSION COMPLETED IN THE YEAR 2008

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 and PA – III plant and PA – IV is obtained which is commissioned. Actual production details as per listed below:

Product	**As per Environmental Clearances**	**As per Consent to Operate (2020)**	**Actual Production**		**Remarks**
			APRIL 2019-MARCH 2020 full year	**APR 2020-SEPT 2020 6 months**	

Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA PA IV 53000 MTPA	222110 MT/A	152022 MT	83648.950 MT	• We are well within the prescribed limit of EC & Consent
Benzoic Acid	1000 MT/A	1500 MT/A	729 MT	364 MT	
Power (Exported to Grid)	**2.5 MW**	**2.5 MW**	**NIL**		

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.

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.	**Due to this proposed de-bottlenecking, there will be a reduction in the generation of pollutants. The air pollution load will be reducing 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 m^3/hr to 3600 m^3/hr due to reduced organics levels in the off**	We are regularly monitoring Air pollution through MoEF recognized laboratory. TOC monitoring reports for Apr 2020 – Sept 2020 are enclosed under **ANNEXURE –II.** We have also provided online monitoring system for stack emissions and effluent which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. **REFER ANNEXURE XVI FOR OCEMS DASHBOARD**

	gases.	
ii.	**The DM makeup water will further be reduced to 2348 m^3/month from 2434 m^3/month. The total effluent generation from both the plants will reduce from 2304 m^3/month to 2088 m^3/month.**	Yes, Agreed. The total water consumption and effluent generation are under the consented quantities. Data on Actual Water Consumption & Waste Water Generation for APR 2020 – SEPT 2020 period is enclosed as **ANNEXURE – III.**
iii.	**There will be no change in the quantity of distillate residue generated. It will be disposed off as per the authorization from MPCB.**	Yes, Agreed. Data on Residue Generation APR Apr 2020 – SEPT 2020 period 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 for all ECs are being submitted regularly **ANNEXURE -V**
vi.	**Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained**	Yes, Noted. Work zone monitoring reports for Apr 2020 – SEPT 2020 period 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. The installation is CCOE approved. 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 the period Apr 2020 – SEPT 2020 are enclosed as **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 have installed rainwater harvesting at two locations and these are in operation. In 2018 rainy season we have recovered total of 500 m^3 of rain water from these two locations.
xii.	**Occupational health surveillance program 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.**	Due to COVID – 19 Pandemic Medical Check has been differed and shall be conducted shortly. Trained Male nurse is provided in all three shifts. We have appointed fulltime Doctor and have tie up with local hospitals to attend to medical emergencies. Please refer **ANNEXURE – VIII.** Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. The records are maintained in Form-7.

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 AmalgamatedConsent to Operate from Maharashtra Pollution Control Board vide no. Format 1.0/CAC/UAN No. 0000081902/CO – 200300/032 Dated: 16/03/2020, valid upto 31/08/2021 Copy of same is enclosed as **ANNEXURE – XX.**
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.**	Agreed. All subsequent expansions were carried out after obtaining Environmental Clearances from MOEF &CC
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, SO_2 and NOx 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 & CC recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises. Ambient Air Monitoring Reports for Apr 2020 – SEPT 2020 period are 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 the period Apr 2020 – SEPT 2020 are enclosed under **ANNEXURE – II** We have also provided online monitoring system for stack emissions and effluent which is linked directly with CPCB /MPCB server for stack emissions as well as effluent**. REFER ANNEXURE XVI FOR OCEMS DASHBOARD**
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 for the period Apr 2020 – SEPT 2020 are 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 Nosie 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 the period Apr 2020 – SEPT 2020 are enclosed as **ANNEXURE - II** showing compliance.
vii.	**Proper House Keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees**	Due to COVID – 19 Pandemic Medical Check has been differed and shall be conducted shortly. Trained Male nurse is provided in all three

	and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.	shifts. We have appointed fulltime Doctor and have tie up with local hospitals to attend to medical emergencies. Please refer **ANNEXURE – VIII.** Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. The records are maintained in Form-7 .
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.**	Separate Environment Management Team under HoD – Health, Safety & Environment has been formed. Separate Environment Laboratory for monitoring ETP performance has been established. Technical guidance shall be provided by President (Production & Technical Services) . Necessary sampling & analysis is conducted by MoEF & CC approved laboratories.
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**	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.

	compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	
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.**	Yes, we had 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.**
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
	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.	Yes. Noted.

	The company will implement these conditions in a time bound manner.	

Ref	**PA-II EC COMPLIANCE REPORT APR 2020 – SEPT 2020** **EC No.J.11012/78/96-IA-II Dated 20th June 1997**
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
For	Manufacture of Products like Phthalic Anhydride, Benzoic Acid and Power.
Status	PA-II PROJECT WAS COMPLETED AND COMISSIONED IN YEAR 1998

	EC Condition	
		status
i.	**The project authorities must strictly adhere to the stipulations made by Maharashtra State Pollution Control Board and the state Government.**	Amalgamated Consent to Operate /Authorization from MPCB has been obtained (**ANNEXURE - XX**).
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.**	Yes, agreed. For further expansion (installation of new plants of Phthalic Anhydride/Maleic Anhydride/benzoic acid) we have received EC No J-11011/73/2016-IA-II(I) dated 18 th July 2017.
iii.	The gaseous emission from the various process units should adhere to the air emission standards specified in Part D, Schedule VI of Environmental (Protection) Second amendment and Rules, 1993. For boiler stack the EPA norms as per Notification dated 27th February, 1996 should be complied. In case the standards stipulated by SPCB are more stringent than the EPA norms, the industry should follow the above. At no time the emission should go	Regular stack / vent monitoring is being carried out through MoEF recognized lab. 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**

	beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit the respective unit should *be* immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency.	
iv.	Ambient- Air quality monitoring stations should be set up in the downwind direction as well as at location.- whore maximum ground level concentrations are anticipated. These locations should be fixed in consultation with the State Pollution Control Board. The number of air quality monitoring stations and frequency of monitoring should be selected on the basis of mathematical modelling to represent short term ground level concentrations, - human settlements, sensitive targets etc. Stack emissions from the process and boilers and incinerator should be monitored for SO2, NOX and SPM and record maintained. It is observed that SO2 concentration in the ambient air is 64 micrograms per cubic meters. This along with emission form the plant is expected to exceed ambient air quality standards. In view of the above, project proponent should provide necessary enhancement/changes in stack design to ensure that S02 level in the ambient air. is maintained within the stipulated norms. Data on ambient air quality and stack emission from boiler should be submitted to this Ministry once in six months along with the statistical analysis and interpretation.	Yes, the ambient air quality monitoring is carried out regularly in existing plants and same practice will be continued in future. **REFER ANNEXURE II** Regular stack / vent monitoring is being carried out through MoEF recognized laboratory. 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** The ambient air quality data is submitted along with 6 monthly EC compliance **report. REFER ANNEXURE II**

v.	Storage of solvents should be in accordance with the prescribed safety norms. Fugitive emissions should be prescribed safety norms. Fugitive emissions should be controlled, regularly monitored and data recorded. The monitored data should be submitted to this Ministry once in 6 months for review	Major Raw Material is o-Xylene which is liquid in nature. Stored in Storage tanks with sprinklers arrangement. The installation is approved by CCOE .Photograph showing designated storage area for storage of raw material: o-Xylene are enclosed as **ANNEXURE - VI**
vi.	The existing ETP facilities should be upgraded by providing tertiary treatment facilities to ensure that the existing discharges meet the norms stipulated by the SPCB/MINAS. .Further, as indicated in the BMP, a new ETP should be provided to treat the additional effluent load after the expansion. The treated effluent should meet the norms prescribed norms under Gazette Notification dated 2.4.96 Specifically BOD (3 days at 27 C) shall be 30 mg/l if discharged directly to a freshwater body. Bioassay test must be carried out to meet 90% survival after 96 hrs. in 100% effluent. Test shall be carried out as per ist6582-l97i. in case the treated effluent is proposed to be disposed into the CETP proposed at MIDC, adequate treatment facility should be provided to meet the CETP norms notified under the Environment (Protection) Rules, 1986.	The ETP plant was revamped in the years 1998 (incorporating tertiary treatment) and also subsequently in the year 2013 to treat the additional load from the expansion before commissioning the Phase III plant.. Bioassay test is already carried out on our effluent through MOEF recognized third party. Company is already a Member of CETP. Effluent after treatment is disposed to CETP as per MPCB norms as specified in CTO. The note on revamping of ETP is enclosed as **ANNEXURE – XI.** Upgradation of ETP has been completed incorporating RO & MEE to recycle total effluent which will be generated from expansion. In addition, part of the effluent from existing plant will also be recycled. We propose to reduce our consent effluent discharge from 686 m^3/day to 220 m^3/day as stipulated in expansion CTO. Attached are few photographs ETP, RO & MEE. **ANNEXURE -XXV**
vii.	Regular effluent quality monitoring should be carried out on a 24-hour log and record instrumentation system and the monitored data along with the statistical analysis and interpretation	We have online emission and effluent monitoring system connected to CPCB and MPCB servers .Ref **ANNEXURE XVI** .

	should be submitted to this Ministry once in six months and to the State Pollution Control Board once in 3 months.	
viii	Guard ponds of sufficient holding capacity should be provided to cope with the effluent discharge -during the process disturbances. In the event of 'failure or nonfunctioning of the ETP, the respective1units should be immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Holding tanks with total capacity 750 m3 for incoming effluent and 400 m3 treated effluent are provided as buffer for any upstream/downstream disturbances. These tanks are RCC tanks(with lining of Acid/alkali proof tile for acidic effluents)
ix	The guard pond should be provided with impervious. lining and stability of the ponds with respect to leakages/cracks and other factors should be ensured	These tanks are RCC tanks with lining of Acid/alkali proof tile lining. The lining is checked and pointing & other repairs if required is done as preventive maintenance.
x	Adequate number of influent and effluent. Quality monitoring stations should be set up in consultation with the State Pollution Control Board	We have online effluent monitoring system connected to CPCB and MPCB servers .**Ref ANNEXURE XVI**. Regular in plant analysis of various streams of ETP are done in the laboratory.
xii	The hazardous wastes should be handled as per the Hazardous Wastes (Management and Handling) rules of the environment (Protection) Act, 1989	We are complying the hazardous waste management rules .
xiii	Handling, manufacturing storage and transport of hazardous chemicals should be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989	complied
xiv	On-site and off-site Emergency Plan as required under the Rules 13 and 14 of the Manufacture, Storage and Import of the Hazardous Chemicals Rules,	We have the onsite and off-site emergency plan which is submitted to DISH (factory inspectorate) .

	1989 should be prepared and approval from the competent authority should be obtained.	
xvi	A green belt of adequate width and density should be raised all around the proposed unit and township. Native plant species should be selected for this purpose in consultation with the local DFO. A norm of about 1500-2000 plants per ha. may be followed.	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.
xvii	Periodical medical checkup of the workers should be done and records maintained as a measure to provide occupational health service to the workers.	Due to COVID – 19 Pandemic Medical Check has been differed and shall be conducted shortly. Trained Male nurse is provided in all three shifts. We have appointed fulltime Doctor and have tie up with local hospitals to attend to medical emergencies. Please refer **ANNEXURE – VIII.** Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. The records are maintained in Form-7.
xviii	The project authorities should set up laboratory facilities for collection, analysis of samples under the supervision of competent technical personnel who will report to the Chief Executive.	Separate Environment Laboratory for monitoring ETP performance has been established. Technical guidance shall be provided by President (Production & Technical Services). Necessary sampling & analysis is conducted by MoEF & CC approved laboratories.
xix	A separate environment management cell with suitably qualified people to carry out various functions should be set	Separate Environment Management Team under HoD – Health, Safety & Environment

	up under the control of senior executive who will report directly to the Head of the Organization.	has been formed. Separate Environment Laboratory for monitoring ETP performance has been established. Technical guidance shall be provided by President (Production & Technical Services) . Necessary sampling & analysis is conducted by MoEF & CC approved laboratories.
xx	The funds earmarked for the environmental protection measures should not be diverted for any other purpose and year wise expenditure should be reported to this Ministry and to the State Pollution Control Board under the Rules prescribed for environmental audit.	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.**

Ref	**PA III EC COMPLIANCE REPORT APR 2020 – SEPT 2020** **EC No. J-11011/994/2007/I A (II) I dated: 03.12.2009**
To	I.G. Petrochemicals Ltd, T-2, MIDC Taloja
Status	Project completed in the year 2013.

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 increases from 2615 m3/day to 4117 m3/day which will be met from the MIDC supply. About 651 m3/day of effluent will be generated. The effluent after primary, secondary and tertiary treatment will be discharged to CETP, Taloja.Process emissions in the form of HCL and TOC will be controlled through scrubbers. Stack height of 55m is provided for boilers for dispersion of gaseous emissions. Stack height of 31m is provided for heaters and 30m for the DG sets.		
The water requirements a nd effluent generation are within stipulated limits. **REFER ANNEX III** for water consumption and effluent generated during period Apr Oct 2020 – Sept 2020. The effluent after primary, secondary & tertiary treatment is discharged to CETP, Taloja. Scrubbers have been provided for process emissions. The stack emissions are being monitored through OCEMS which is connected to CPCB/MPCB servers. Requisite stack heights have been provided.		
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 was revamped in 2013 to treat the additional load from the expansion before commissioning the Phase III plant. Holding tanks with total capacity 750 m3 for incoming effluent and 400 m3 treated effluent are provided in 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 continuous online effluent monitoring

		system (BOD,COD,pH,TSS) connected to CPCB and MPCB servers .Ref **ANNEXURE XVI** . We have further upgraded ETP by incorporating RO and MEE to recycle total effluent generated from ongoing expansion and also recycling part of the existing effluent, thus bringing consented effluent discharge from 686 m^3/day to 220 m^3/day. Ref **ANNEXURE-XXV** for details of upgradation .
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 are controlled by three stage scrubbers**.** Provision shall made of sampling port hole and monitoring is being done. DG sets are provided with stack height of 15 m above roof, which is as per the Consent granted to our unit**.** Regular monitoring is carried out through MoEF & CC recognized laboratory. All stacks emission and effluent (discharged to CETP) parameters are connected via OCEMS to CPCB and MPCB servers. Refer **ANNEXURE XVI** for snapshots of OCEMS Dashboards.
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, NOx & 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 reports on our company web site (http://www.igpetro.com/quality#main-content). We are submitting 6 monthly compliances 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 & ANNEXURE XXII.**
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**	Spent carbon is generated from ETP tertiary treatment process and thus unsuitable for

	and bio sludge to the cement plant plants or spent carbon should be incinerated.	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 2019 – 2020 is enclosed as **ANNEXURE – XIV.**
vi)	**The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import if 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. Amalgamated Consent To Operate / Authorization from MPCB for PA –I, PA – II, PA – III and PA – IV plant is obtained with vide No. Format 1.0/CAC/UAN No. 0000081902/CO – 200300/032 valid upto 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. . 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.**	Due to COVID – 19 Pandemic Medical Check has been differed and shall be conducted shortly. Trained Male nurse is provided in all three shifts. We have appointed fulltime Doctor and have tie up with local hospitals to attend to medical

		emergencies. Please refer ANNEXURE – VIII. Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. The records are maintained in Form-7 .
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.**	Amalgamated Consent to Operate /Authorization from MPCB is obtained has been obtained with vide No. Format 1.0/CAC/UAN No. 0000081902/CO – 200300/032 valid upto 31/08/2021 (**ANNEXURE - XX**). 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)**	Yes, agreed.

	adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	
iv)	**The gaseous emissions (NOx, 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, NOx and SPM shall be carried.**	Regular stack / vent monitoring is being carried out through MoEF recognized laboratory. We have also installed continuous online monitoring system which is linked directly with CPCB /MPCB servers 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 & will be continued. **REFER ANNEXURE II**
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 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**	Yes agreed.

	Ministry. All the recommendations made in respect of environmental management & risk mitigation measures relating to the project shall be implemented.	
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**I 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 XXVI** for details
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.**	Separate Environment Management Team under HoD – Health, Safety & Environment has been formed. Separate Environment Laboratory for monitoring ETP performance has been established. Technical guidance shall be provided by President (Production & Technical Services) . Necessary sampling & analysis is conducted by MoEF & CC approved laboratories.
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 for 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, six monthly reports are being submitted regularly. For Last submitted report refer **ANNEXURE V**
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. Refers **ANNEXURE X**
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 IV PA, MA & Benzoic plants are done. Benzoic acid recovery project which envisages recovery of benzoic acid from residue and waste water is installed and commissioned- copy of amalgamated Consent to Operate for all units enclosed- **ANNEXURE – XX.**
7)	**The Ministry may revoke or suspend the clearance, if implementation of any of**	Yes, above condition is noted.

	the above conditions is not satisfactory	
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 COMPLIANCE FOR THE PERIOD APR 2020 – SEPT 2020** **Maleic Anhydride (REVAMPING OF EXISTING MA-I AND MA-II PLANTS)** **EC No. J-11011/986/2007-IAII (I) dated 02/04/2008**
	EC No. J-11011/986/2007-IAII (I) dated 02/04/2008 was obtained by Mysore Petrochemicals Ltd, T-1, MIDC Taloja for expansion of Maleic Anhydride plant capacity from 5400 TPA to 6500TPA. This unit of Mysore Petrochemicals was sold to sister company IG Petrochemicals Ltd ,T-2,MIDC ,Taloja with effect from April 2017 and is amalgamated with IG Petrochemicals .
Status	PLANT EXPANSION COMPLETED IN THE YEAR 2013

This Environmental Clearance was obtained for enhancing of plant for capacity of Maleic Anhydride from 5400 TPA to 6500TPA. Consolidated Consent to Operate for the amalgamated unit (IG Petrochemicals Ltd has been obtained on 16/03/2020

Product	**As per Environmental Clearances**	**As per Consent to Operate (2020)**	**Actual Production**		**Remarks**
			APRIL 2019-MARCH 2020 full year	**Apr 2020-Sept 2020 6 months**	
Maleic Anhydride	7660 TPA	7660 TPA	4459.50	2573.875	We are well within the prescribed limit of EC & Consent

Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of Environment & Forest, Government of India vide letter No. J-11011/986/2007-IAII (I) dated 02.04.2008 is complied.

A.	**Specific Conditions:**	
i.	Ambient air quality monitoring stations, SPM, SO_2 and NO_X) shall be set up in the petrochemical unit in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Data on VOC shall be monitored and submitted to the SPCB / Ministry's Regional Office. Monitoring of VOC shall be undertaken.	Yes, the ambient air quality monitoring is carried out regularly & will be continued. **REFER ANNEXURE II**
ii.	The effluent generated after recovery of Maleic Anhydride from Scrubber effluent of M/s IG Petrochemicals Limited (IGPL) shall be sent back to ETP of IGPL for further Treatment.	Complied. The effluent generated in Maleic Anhydride plant is sent to ETP for further treatment. After amalgamation of Mysore Petrochemicals MA plant with IGPL, this effluent transfer is internal transfer to ETP.
iii.	The hazardous waste generated in the form of distillation residues shall be used as *a* fuel in heater of M/s IG Petrochemical Limited.	Complied. Refer **ANNEXURE IV** for the quantities generated and used as fuel in thermic fluid heaters.
iv.	All the standards /Norms stipulated under Environment (Protection) Act, 1986/CPCB should be met. In addition all new standards/norms that would be notified in future for petrochemical units shall be applicable for the proposed expansion unit.	Agreed
v.	Project authority shall undertake rainwater harvesting measures to recharge water and also to minimize the water drawl from the reservoir and ground water.	Yes, we have installed rainwater harvesting at two locations and these are in operation. This year we have recovered total of 500 m3 of rain water from these two locations

vi.	Green belt shall be raised in 33% of the plant area to mitigate the fugitive emissions the plant. Selection of plant species shall be as per the Central Pollution Control Board guidelines.	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.
vii.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Due to COVID – 19 Pandemic Medical Check has been differed and shall be conducted shortly. Trained Male nurse is provided in all three shifts. We have appointed fulltime Doctor and have tie up with local hospitals to attend to medical emergencies. Please refer **ANNEXURE – VIII.** Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. The records are maintained in Form-7 .

B.	**General Conditions:**	
i.	The project authorities must strictly adhere to the stipulations made by the Pollution Control Board and the State Government.	Agreed and complied
ii.	No further expansion or modernization in the plant shall-be carried out without prior approval of the Ministry of Environment and Forests.	Agreed .
iii.	At no time, the emissions shall go beyond the prescribed standards. In the event of failure	Agreed

	of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	
iv.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Yes, Enclosures have been provided at various Noise Generating locations. Monitoring Reports for the period Apr 202 – Sept 2020 are enclosed as **ANNEXURE – II**
v.	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project.	We shall abide by this strictly. The site details are submitted to the DISH as they are the prescribed authority under the MSIHC Rules. Amalgamated Consent To Operate / Authorization from MPCB has been obtained. **ANNEXURE XX.**
vi.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	Yes, complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste to CHWTSDF. Copy of the membership certificate & hazardous waste return are enclosed as **ANNEXURE – I & XIV.**
vii.	The project authorities will provide adequate funds both recurring and non-recurring 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 provided should not be diverted for any other purposes.	Agreed and complied **ANNEXURE IX**
viii.	The stipulated conditions will be monitored by the Regional Office of this Ministry at Bhopai/Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.	complied

ix.	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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in. This should 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 should be forwarded to the Regional office.	complied
x.	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 commencing the land development work.	**C**omplied

Ref	**PA-IV EC COMPLIANCE REPORT APR 2020 – SEPT 2020** **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	Phthalic Anhydride & Maleic Anhydride Plants are commissioned, Di Ethyl / Di Methyl Phthalic Plant is under erection.

Proposal is for expansion of petrochemical and synthetic organic chemicals manufacturing facility at Plot No. T-2, MIDC Taloja, 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 Clearance were 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 & Maleic Anhydride plants is obtained.

Production details of existing unit as per listed below:

Product	As per Environmental Clearances	As per Consent to Operate (2020)
Phthalic Anhydride	PAI+PAII90000 MTPA PAI+PA IIEXP 26110 MTPA PAIII 53000 MTPA PA IV 53000 MTPA	**222110 MT/A**
Benzoic Acid	1750 MT/A	**1500 MT/A**
Power (Exported to Grid)	2.5 MW	**2.5 MW**
***Maleic Anhydride**	7660 MTPA	**7660 MTPA**

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

Proposed Additional capacities of Products as per EC No. J-11011/73/2016-IA-II (I), Dated: 18th July, 2017 & amendment of the same was 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 monthly compliance report.**	We have planted 2000 nos of trees at Ghot Camp located 1.0 km away from IGPL Plant in the year - 2019 monsoon. Survival report enclosed. Refer **ANNEXURE-XXVI** We have identified Plot No. OS – 44 in Taloja MIDC which have been allocated to M/s I G Petrochemicals Ltd. We have received transfer documents for Plot No. OS – 44 and and waiting signing of agreement by MIDC, accordingly we will plan plantation of balance 3000 trees.
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, 0.75 % (fig revised as per MOEFC&C office memorandum F.No.22-65/2017-IA.III dated 1st May 2018 **REF ANNEXURE –XVIII** 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 /CER is enclosed as ANNEXURE – XVIII.**
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.**	Appointed 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 XIX) effluent discharge to CETP should be 220 m3/day**	Yes, Agreed. Effluent generated from existing unit and proposed expansion is being treated and recycled within the plant & remaining treated effluent is restricted to 220 m^3/day for final

		discharge to CETP. Upgradation involves installation MEE/RO for partial Effluent recycle. The upgradation project is commissioned. REFER ..**ANNEXURE-XXV** for few photos of ETP upgradation .
v.	**Continuous online (24 x7) monitoring to 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 MoEF & CC, CPCB and SPCB.**	Yes, we have installed continuous online (24*7) monitoring system measurement for stacks emission & effluent. We have connected online continuous emission monitoring system to CPCB / MPCB Server and data is uploaded on company's website regularly. Refer **Annexure – XVI** for OCEMS dashboard. Same system has extended for expanded plants. We have provided link of OCEMS on our company web site (**http://www.igpetro.com/quality#main-content**) **Refer ANNEXURE XXII**
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, entire plant is covered by a hydrant system, which has provided with separate fire water pump and emergency pumps (diesel operated). Fire extinguishers are 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.**	Due to COVID – 19 Pandemic Medical Check has been differed and shall be conducted shortly. Trained Male nurse is provided in all three shifts. We have appointed fulltime Doctor and have tie up with local hospitals to attend to medical emergencies. Please refer

		ANNEXURE – VIII Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. The records are maintained in Form-7 .
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 have already received amalgamated Consent to Operate from MPCB **(REF ANNEXURE-XX**) for the additional requirement from the expansion plants. We are member of **CHW-TSDF REF ANNEXURE XIII.**

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.**	Amalgamated Consent to Operate /Authorization from MPCB is obtained. **REF AXXEXURE XX**
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 & CC
iii.	**The locations of ambient air quality**	We are regularly monitoring Ambient Air

	monitoring stations shall be decided consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Quality Monitoring through MoEF & CC recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Ambient Air Monitoring Reports for last six months are 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. All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for Apr 2020 – Sept 2020 period are enclosed under **ANNEXURE - II** showing compliance.
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 rainwater harvesting at two locations and these are in operation. Last monsoon year we have recovered total of 500 m3 of rain water from these two locations.
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, periodical Training is 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**	Yes agreed. All Environmental Protection

	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.	measures are incorporated as per documents submitted to ministry.
ix.	**The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.**	Yes, the company contributes to nearby Ashram / local village Gram panchayat.
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 measures for improvement of the environment. refer **ANNEXURE XXVI & Annexure – XVIII.**
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.**	Separate Environment Management Team under HoD – Health, Safety & Environment has been formed. Separate Environment Laboratory for monitoring ETP performance has been established. Technical guidance shall be provided by President (Production & Technical Services) . Necessary sampling & analysis is conducted by MoEF & CC 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 Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.**	Yes, We have submitted EC copy to Panvel Municipal Corporation which is local body. **REF ANNEXURE XXIII**
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 for all EC s. Refer **ANNEXURE V** for Ack. Copy of last six monthly compliance report submitted
xv.	**The environmental statement for each financial year ending 31st March in Form-V as 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. **REFER ANNEXURE -XXI**
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**	Complied- advertisement was placed in media on obtaining the Environmental clearance. Copy of Advertisement published in local newspaper is enclosed herewith as **ANNEXURE– X**

	forwarded to the concerned Regional Officeof the Ministry.	
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. Project is partly completed Phthalic & Maleic Anhydride) and part of Project (DEP/DMP) is under construction. We will intimate to RO, MOEF once project is 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.

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ANNEXURE-XVIII	**:**	CER Budget & Expenditure
ANNEXURE-IXX	**:**	EC Amendment
ANNEXURE-XX	**:**	Amalgamated Consent to Operate
ANNEXURE-XXI	**:**	Environmental Statement 2019 – 2020
ANNEXURE-XXII	**:**	IGPL web site snapshot
ANNEXURE -XXIII	**:**	EC copy submission to Panvel Municipal Corporation.
ANNEXURE-XXIV	**:**	Photos of ongoing expansion project
ANNEXURE-XXV	**:**	ETP Upgradation Photos
ANNEXURE-XXVI	**:**	Tree Plantation Report

ANNEXURE I

F.No.22-65/2017-IA.III

Government of India

Ministry of Environment, Forest and Climate Change

Impact Assessment Division

*****

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi – 110003

Dated: 1st May, 2018

Office Memorandum

Sub: Corporate Environment Responsibility (CER) – reg.

The Environment Impact Assessment (EIA) Notification, 2006, issued under the Environment (Protection) Act, 1986, as amended from time to time, prescribes the process for granting prior environment clearance (EC) in respect of certain development projects/activities listed out in the Schedule to the Notification.

2. Sustainable development has many important facets/components like social, economic, environmental, etc. All these components are closely inter-related and mutually re-enforcing. Therefore, the general structure of EIA document, under Appendix-III to the notification, prescribes inter-alia public consultation, social impact assessment and R&R action plan besides environment management plan (EMP).

3. Section 135 of the Companies Act, 2013 deals with Corporate Social Responsibility (CSR) and Schedule-VII of the Act lists out the activities which may be included by companies in their CSR Policies. The concept of CSR as provided for in the Companies Act, 2013 and covered under the Companies (Corporate Social Responsibility Policy) Rules, 2014 comes into effect only in case of companies having operating projects and making net profit as also subject to other stipulations contained in the aforesaid Act and Rules. The environment clearance given to a project may involve a situation where the concerned company is yet to make any net profit and\or is not covered under the purview of the aforesaid Act and Rules. In such cases, the provisions of aforesaid act and Rules will not apply.

4. In the past, it has been observed that different Expert Appraisal Committees / State Expert Appraisal Committees (EACs/SEACs) have been prescribing different formulation of the Corporate Environment Responsibility (CER) and no common principles are followed. Several suggestions have also been received in this regard which inter-alia states that Greenfield projects and Brownfield projects should be treated differently; no CER should be prescribed whereas there is no increase in air pollution load, R&R, etc., besides streamlining percentage of CER.

5. The Ministry has carried out a detailed stakeholder consultation which inter-alia included meeting with Ministry of Petroleum & Natural Gas, Ministry of Power, Chairmen EACs, FICCI, ASSOCHAM, Gujarat Chamber of Commerce and Industry amongst others.

6. In order to have transparency and uniformity while recommending CER by Expert Appraisal Committee (EAC) / State level Expert Appraisal Committee (SEAC) / District level Expert Appraisal Committee (DEAC), the following guidelines are issued:

(I) The cost of CER is to be in addition to the cost envisaged for the implementation of the EIA/EMP which includes the measures for the pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV and Compensatory Aforestation, required, if any, and any other activities, to be derived as part of the EIA process.

(II) The fund allocation for the CER shall be deliberated in the EAC or SEAC or DEAC, as the case may be, with a due diligence subject to **maximum percentage** as prescribed below for different cases:

S.No	Capital Investment / Additional Capital Investment (in Rs)	Greenfield Project – % of Capital Investment	Brownfield Project – % of Additional Capital Investment
I	II	III	IV
1.	≤ 100 crores	2.0%	1.0%
2.	> 100 crores to ≤ 500 crores	1.5%	0.75%
3.	> 500 crores to ≤ 1000 crores	1.0%	0.50%
4.	> From 1000 crores to ≤10000 crores	0.5%	0.25%
5.	> 10000 crores	0.25%	0.125%

(III) The activities proposed under CER shall be worked out based on the issues raised during the public hearing, social need assessment, R&R plan, EMP, etc.

(IV) The proposed activities shall be restricted to the affected area around the project.

(V) Some of the activities which can be carried out in CER, are infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas, etc.

(VI) The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half-yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

(VII) The District Collector may add or delete the activities as per the requirement of the District.

(VIII) The EAC can vary the above percentage of CER subject to proper diligence, quantification and justification. The EAC based on appraisal, should clearly suggest the activities to be carried out under CER.

(IX) This CER is not applicable in name change, transfer and amendment involving no additional project investment. In case of amendment in EC involving additional expenditure, CER will be applicable only on the additional expenditure as per column-IV of the table given in para 6(II) above.

7. This issues in supersession of all earlier OMs and guidelines issued in this regard.

8. This issues with the approval of competent authority.

1/5/18

(Sharath Kumar Pallerla)
Director (IA-III-Policy)

1. Chairman, CPCB
2. Chairmen of all the Expert Appraisal Committees
3. Chairperson/Member Secretaries of all the SEIAA/SEACs
4. Chairpersons/Member Secretaries of all SPCBs/UTPCCs
5. All the officers of IA Division

Copy for information to:

1. PS to Minister for Environment, Forest and Climate Change
2. PS to MoS (EF&CC)
3. PPS to Secretary (EF&CC)
4. PPS to AS(Ad.)) / AS(Adv)
5. PPS to JS(GB) / JS(JT)
6. Website, MoEF&CC
7. Guard File

ANNEXURE II

	Work Room Air Monitoring Reports		
	Apr-20, May-20		
	Due to COVID-19 Pandemic situation monitoring not carried out for April 2020 & May 2020		

Work Room Air Monitoring Reports			
	Jun-20		
Location	27th June		
	SO2	NOx	SPM
	ppm	ppm	mg/m³
Phthalic Anhydride Ware House	0.013	0.034	0.152
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Work Room Air Monitoring Reports			
	Jul-20		
Location	15th July		
	SO2	NOx	SPM
	ppm	ppm	mg/m³
Phthalic Anhydride Ware House	0.013	0.034	0.148
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

Work Room Air Monitoring Reports			
	Aug-20		
Location	5th Aug		
	SO2	NOx	SPM
	ppm	ppm	mg/m³
Phthalic Anhydride Ware House	0.013	0.034	0.152
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Work Room Air Monitoring Reports			
	Sep-20		
Location			
	SO2	NOx	SPM
	ppm	ppm	mg/m³
Phthalic Anhydride Ware House	0.014	0.033	0.162
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

A **Heater Stack Emmission Monitoring - PA I**

Physical Data:

Stack Height (m)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**	32 m	32 m	32 m	32 m
Inside Diameter (m)		0.5 m	0.5 m	0.5 m	0.5 m
Stack Area (m^2)		0.196 m^2	0.196 m^2	0.196 m^2	0.196 m^2
Flue Gas Temperature (^oC)		146 ^oC	169 ^oC	221 ^oC	170 ^oC
Velocity m/sec		5.64m/sec	5.91 m/sec	6.32 m/sec	9.75 m/sec
Flow m3/hr.		2835.95 m^3/hr.	2815.33 m^3/hr.	2694.55 m^3/hr.	4633.04 m^3/hr.
Fuel Quantity		4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD
Fuel Used		FO + Residue	FO + Residue	FO + Residue	FO + Residue

Heater -I	**Limiting Standard**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**	**Sep-20**
				27th June	15th July	**4th Aug**	**7th Sept**
TPM (mg/Nm3)	**150**	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		85.5	77.1	67.1	62.4
SO2 (mg/Nm3)	**1700**			20.5	18.2	16.17	14.26
Nox (mg/Nm3)	**450**			24.9	19.7	16.6	10.4
CO ppm				1.4	1.8	1.1	1.3

B Heater Stack Emission Monitoring - PA II

Physical Data:

Stack Height (m)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**	34 m	34 m	34 m	34 m
Inside Diameter (m)		0.59 m	0.59 m	0.59 m	0.59 m
Stack Area (m^2)		0.2732m2	0.2732m2	0.2732m2	0.2732m2
Flue Gas Temperature (^oC)		169 ^oC	179 ^oC	195 ^oC	176 ^oC
Velocity m/sec		6.12 m/sec	6.02 m/sec	6.13 m/sec	6.10 m/sec
Flow m3/hr.		4057.65 m^3/hr.	3904.04 m^3/hr.	3836.73 m^3/hr.	3980.91 m^3/hr.

Fuel Used			FO + Residue	FO + Residue	FO + Residue	FO + Residue
Fuel Quantity			4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD

Heater - II	**Limiting Standard**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**	**Sep-20**
				27th June	15th July	**4th Aug**	**7th Sept**
TPM (mg/Nm3)	**150**	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		60.4	64.9	65.5	60.1
SO2 (mg/Nm3)	**1700**			26.8	22.2	21.85	18.38
Nox (mg/Nm3)	**450**			21.8	19.7	19.7	14.5
CO ppm				1	1.3	1	1.2

C Boiler Stack Emission Monitoring

Physical Data**:**

Stack Height (m)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**	55 m	55 m	55 m	56 m
Inside Diameter (m)		2.6 m	2.6 m	2.6 m	2.6 m
Stack Area (m^2)		5.31 m^2	5.31 m^2	5.31 m^3	5.31 m^4
Flue Gas Temperature (^oC)		155 ^oC	155 ^oC	161 ^oC	158 ^oC
Velocity m/sec		3.70 m/sec	4.51 m/sec	4.33 m/sec	4.41 m/sec
Flow m3/hr.		49218.05 m^3/hr.	56969.08 m^3/hr.	56851.37 m^3/hr.	58275.88 m^3/hr.
Fuel Used		Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil
Fuel Quantity		27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	28 MTPD (maximum)

Boiler stack

Boiler	**Limiting standard**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**	**Sep-20**
				27th June	15th July	**4th Aug**	**7th Sept**
TPM(mg/Nm3)	150	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		66.3	62	68.1	60.4
Nox conc (mg/Nm3)	50			26	21.8	19.7	16.6
SO2 mg/Nm3	900			115.4	96.4	78.74	62.78
CO				0.4	0.34	0.3	0.52

D **Scrubber Stack Emmission Monitoring - PA I**

Physical Data:

Stack Height (m)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**	50 m	50 m	50 m	51 m
Inside Diameter (m)		1.99 m	1.99 m	1.99 m	1.99 m
Stack Area (m^2)		3.11m^2	3.11m^2	3.11m^2	3.11m^3
Flue Gas Temperature (^oC)		48 ^oC	48 ^oC	46 ^oC	42 ^oC
Velocity m/sec		7.01 m/sec	6.97 m/sec	6.81 m/sec	6.8m/sec
Flow m3/hr.		72851.92 m^3/hr	72403.04 m^3/hr	71169.61 m^3/hr	71990.19 m^3/hr

PA I Scrubber	**Limiting Standard**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**	**Sep-20**
				27th June	15th July	**4th Aug**	**7th Sept**
voc (mg/m3)	150	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		ND	ND	ND	ND
SO2 (mg/Nm3)	50			12.2	14.7	7.3	12.2
TPM	150			32.3	30.1	27	14
NOX	50			17.7	16	11.4	15.6
ND - NOT DETECTED							

Scrubber Stack Emission Monitoring -

E PA II

Physical Data:					
Stack Height (m)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**	50 m	50 m	50 m	51 m
Inside Diameter (m)		1.69 m	1.69 m	1.69 m	1.69 m
Stack Area (m^2)		2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^3
Flue Gas Temperature (^oC)		49 ^oC	49 ^oC	48 ^oC	45 ^oC
Velocity m/sec		6.79 m/sec	6.03 m/sec	5.84 m/sec	6.65 m/sec
Flow m3/hr.		26018.18 m^3/hr	45039.78 m^3/hr	43735.65 m^3/hr	50332.77 m^3/hr

PA - II Scrubber	Limiting Standard	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
				27th June	15th July	**4th Aug**	**7th Sept**
Volatile Organic Acids (mg/m3)	150	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		ND	ND	ND	ND
SO_2 **(ppm)**	50			17.1	19.6	9.8	12.2
TPM	150			27.2	33.1	31.3	23.1
Nox	50			16.6	15.6	10.4	13.5

F Scrubber Stack Emission Monitoring - PA III

Physical Data:

Stack Height (m)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**	50 m	50 m	50 m	51 m
Inside Diameter (m)		1.69 m	1.69 m	1.69 m	1.69 m
Stack Area (m^2)		2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^3
Flue Gas Temperature (^oC)		347.6 ^oC	53 ^oC	50 ^oC	43 ^oC
Velocity m/sec		6.68 m/sec	6.34 m/sec	5.99 m/sec	6.10 m/sec
Flow m3/hr.		29052.79 m^3/hr	46804.94 m^3/hr	44593.68 m^3/hr	46440 m^3/hr

PA III Scrubber	Limiting standard	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
				27th June	15th July	4th Aug	7th Sept
Volatile Organic Acids (mg/m3)	150	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		ND	ND	ND	ND
SO_2 **(ppm)**	50			14.7	17.1	9.8	14.7
TPM	150			30.5	31.8	28.9	20.5
Nox	50			18.7	18	12.5	10.4

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

A **Ambient air monitoring ETP**

Parameters	Standard	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
				26th June	15th July	4th Aug	7th Sept
SO2	80	Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020		13.2	13.1	13.3	13.3
Nox	80			23.2	19.5	22.4	23
PM 10	100			60.3	59.7	61.9	62.7
PM 2.5	60			20	18.3	21.6	22.5
OZONE	180			BDL	BDL	BDL	BDL
CO	4			0.23	0.21	0.24	0.25
Lead	1			BDL	BDL	BDL	BDL
Benzene	5			BDL	BDL	BDL	BDL
Benzopyrene	1			BDL	BDL	BDL	BDL
Arsenic	6			BDL	BDL	BDL	BDL
Nickel	20			BDL	BDL	BDL	BDL
NH3	400			BDL	BDL	BDL	BDL

B **Ambient air monitoring Flaker building terrace area**

Parameters	Standard	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
				26th June	15th July	4th Aug	7th Sept
SO2	80	Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020		13.1	13.2	12.7	12.9
Nox	80			23	19.6	20.8	21.8
PM 10	100			60.9	58.8	59.3	61.6
PM 2.5	60			20.4	18.7	18.7	20
OZONE	180			BDL	BDL	BDL	BDL
CO	4			0.22	0.23	0.23	0.24
Lead	1			BDL	BDL	BDL	BDL
Benzene	5			BDL	BDL	BDL	BDL
Benzopyrene	1			BDL	BDL	BDL	BDL
Arsenic	6			BDL	BDL	BDL	BDL
Nickel	20			BDL	BDL	BDL	BDL
NH3	400			BDL	BDL	BDL	BDL

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result						Limiting Standard
		Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	
		Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	
		Due to COVID -19 Pandemic situation monitoring not carried out in April 2020	Due to COVID -19 Pandemic situation monitoring not carried out in May 2020	27th June	15th July	5th Aug	07th Sept	
1	VOC			BDL	BDL	BDL	BDL	20 mg/Nm³
2	TPM (mg/m3)			0.182	0.158	0.15	0.156	20 mg/Nm³

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

Ambient Noise Level Monitoring Report												
Date	Apr-20		May-20		Jun-20		Jul-20		Aug-20		Sep-20	
	30-10-20		29-11-19		26th June		15th July		04th August		7th Sept	
Location	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)
At Factory Boundary :												
L1	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**				65.3	63.1	62.9	60.1	64.2	61.1	63.1	60.1
L2					61.8	58.7	63.7	61.5	63.2	59.3	65.1	59.5
L3					63.9	60.3	60.4	58.9	65.1	61.8	59.8	58.1
L4					60	57.8	62.5	59.6	64.5	62.3	58.7	56.7
L5					65.6	64.8	68.9	65.4	65.2	63.5	68.5	65.2
L6					69	66.3	65.4	63.2	68.1	62.9	66.9	59.2
L7					58.8	55	69.9	66.1	67.5	67.5	69.5	67.5
Standard	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)
Within Plant :												
L8					76.8	73.4	81.9	80	63.1	59.2	72.5	68.9
L9					74.3	72.3	80.1	79.1	62.8	61.2	65.9	60.1
L10					85.7	83.6	69.9	66.7	64.9	59.8	80.1	72.1
L11					79	78.4	69.1	65.4	65.2	61.2	81.8	69.9
L12					82.3	80.1	67.4	65.1	64.1	60.7	68.9	65.4
L13					76.1	75.8	63.1	60	65.2	60.2	81.2	58.5
Standard	90 (#)		90 (#)		90 (#)		90 (#)		90 (#)		90 (#)	

(*) As specified in Environment Protection act – schedule II for Industrial Use Ares

(#) As specified by MOEF

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd

ANNEXURE II

Noise Level Survey Report							
Location		Month					
		Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
	Date			26th June	15th July	4th Aug	7th Sept
I	Laboratory						
a)	Chemical Laboratory (middle table)	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		65.4	62.1	58.3	62.1
b)	Chemical Laboratory (last table)			66.1	61.5	58.6	63.7
c)	Changing room			54.4	63.4	55.3	60.2
d)	Officer cabin			56.7	60.2	51.9	58.9
e)	Instrumental Laboratories			61.2	59.8	58.8	57.3
f)	Micro Laboratories			0.0	0.0	0.0	0.0
II	Operator cabin (Near PA II)						
a)	On table			62	62.6	59.1	65.4
III	Store room						
a)	Near entrance			58.9	67.6	60.2	69.9
b)	Cabin for store supervisor			53.6	62.4	59.7	59.2
IV	Engineering work shop						
a)	Near entrance			71.6	68.1	64.8	67.7
b)	Inside cabin on table			58.2	61.8	65	65.2
V	PA- I plant						
a)	Near o-Xylene preheaters			61.5	67.5	70.1	68.2
VI	Turbine room PA - I plant						
a)	Near turbine			72.6	83.6	74.3	74.9
b)	Compressor			81.7	81.2	74.8	69.6
VII	Control Room						
a)	Door open			58.1	69.1	60.9	68.7
b)	Door closed			55.6	61.2	59	65.1
VIII	Utilities						
a)	Boiler room (Door open)			66.7	65.6	69.8	66.7
b)	(Door closed)			53.9	60.1	60.3	63.1
IX	PA - II turbine room						
a)	Near air compressor			76.8	63.7	72.3	67.6
X	PA - II plant						

ANNEXURE II

a)	Near o-Xylene preheaters			63.6	67.2	71.8	68.9
XI	PA plant flaker packing						
a)	Flaker panel Room (Door opened)			59.6	59	78.5	66.5
b)	Flaker panel Room (Door closed)			55.6	56.2	76.3	64.9
c)	Flaker Room			60	60.8	75.8	65.1
d)	Warehouse			65.2	63.3	67.3	63.8
XII	Operator cabin (Near PA III)						
a)	Near air boiler			76.2	74.1	78.8	67.9
b)	Near turbine			80.6	78.3	69.4	69.2
c)	Near PA III			82.2	80.2	67	68.9
Limit as per Factory Act		90					
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

Drinking Water Analysis Report

Sr. No.	Location	Apr-20	May-20	Jun-20			Jul-20			Aug-20			Sep-20		
				27th June			30th July			10th August			8th Sept		
		Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020		Coliform Count/ 100 ml	E.coli (Limit: Absent)	Remark	Coliform Count/ 100 ml	E.coli (Limit: Absent)	Remark	Coliform Count/ 100 ml	E.coli (Limit: Absent)	Remark	Coliform Count/ 100 ml	E.coli (Limit: Absent)	Remark
1	Canteen-1 (Main Canteen)			Absent	Absent	potable	Absent	Absent	potable	Absent	Absent	potable	Absent	Absent	potable
2	Canteen-2 (Contract Canteen)			Absent	Absent	potable	Absent	Absent	potable	Absent	Absent	potable	Absent	Absent	potable
3	PA Control room			Absent	Absent	potable			-	Absent	Absent	potable			-
4	Workshop			Absent	Absent	potable			-	Absent	Absent	potable			-
5	Instrumentation			Absent	Absent	potable			-	Absent	Absent	potable			-
6	Admin			Absent	Absent	potable			-	Absent	Absent	potable			-
7	LAB			Absent	Absent	potable			-	Absent	Absent	potable			-
8	MA Control Room			Absent	Absent	potable			-	Absent	Absent	potable			-
9	PA Bagging Section			Absent	Absent	potable	Absent	Absent	potable	Absent	Absent	potable	Absent	Absent	potable

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

Effluent Analysis Reports							
Date	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Limiting Standard (*)
			27th June	15th July	5th Aug	7th Sept	
pH	**Due to COVID -19 Pandemic situation monitoring not carried out in April and May 2020**		7.45	7.1	7.5	7.43	5.5 to 9.0
Suspended Solids			52	58	98	36	not to exceed 600
Biochemical Oxygen Demand			30	42	49	25	not to exceed 350
Chemical Oxygen Demand			80	90	120	50	not to exceed 250
Oil & Grease			BDL	BDL	<2.0	<2.0	not to exceed 20
TDS			1760	1820	1370	890	Not exceed 2100
Chloride			560	542	74.9	204	Not exceed 600
Sulphate			105	98	420	93	Not exceed 1000
Ammonical Nitrogen as N			0.84	1.12	1.12	<0.56	not to exceed 50
Bio-assay			90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent

(*) Standard for discharge in Public Sewers
All parameters and limits except pH are in mg / lit.
BOD is expressed in the terms of 3 days and @ 27^{o}C.

ANNEXURE II

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE III

Data on water consumption

Period: April 2020 to September 2020

Month	Consumption m3/month	Consumption m3/day
Apr-20	36570	1219
May-20	74760	2412
Jun-20	88680	2956
Jul-20	79060	2550
Aug-20	71560	2308
Sep-20	89310	2977

EFFLUENT GENERATED

Period: April 2020- September 2020

CONSENTED EFFLUENT DISCHARGE TO CETP- 220 M3/DAY

Month	Effluent Per Month	Effluent Per Day
Apr-20	3397	113
May-20	7318	236
Jun-20	7653	255
Jul-20	8588	277
Aug-20	7852	253
Sep-20	7285	243

PA – IV Plant start-up initiated in July 2020 and commissioned by 19th Oct 2020.

ANNEXURE - IV

RESIDUE GENERATION DATA

PERIOD - APR 2020 TO SEPT 2020

MONTH	PA RESIDUE MT	MA RESIDUE MT
Apr-20	51.15	46.70
May-20	55.39	156.17
Jun-20	95.37	188.20
Jul-20	88.67	182.40
Aug-20	85.30	159.00
Sep-20	87.03	165.70
AVERAGE	**77.15**	**149.70**

ANNEXURE - V

ERI34669857IN IVR:697713466985?
SP TALOJA A.V. S.O <410208>
Counter No:1,15/06/2020,12:50
To:CPCBBOARDP BHAWAN,VADODARA
PIN:390002, Fatepanj HO
From:I G PETROCH,TALOJA
Wt:796gms
Amt:106.20(Cash)Tax:16.20
<Track on www.indiapost.gov.in>

34669891IN IVR:697713466989?
SP TALOJA A.V. S.O <410208>
Counter No:1,15/06/2020,12:50
THE DIRE MINI,N DELHI
PIN:110003, Lodi Road HO
From:I G PETROCH,TALOJA
Wt:726gms
Amt:141.60(Cash)Tax:21.60
<Track on www.indiapost.gov.in>
<Toll 18002666868> <Expect Delay in Delivery>

34669874IN IVR:697713466987?
SP TALOJA A.V. S.O <410208>
Counter No:1,15/06/2020,12:50
THE MER SEC POLLU,SION
PIN:400022, Sion SO
From:I G PETROCH,TALOJA
Wt:320gms
Amt:47.20(Cash)Tax:7.20
<Track on www.indiapost.gov.in>
<Toll 18002666868> <Expect Delay in Delivery>

Dhairyasheel

From: Dhairyasheel <drshinde@igpetro.com>
Sent: 13 June 2020 13:18
To: eccompliance-mh@gov.in
Subject: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Attachments: EC COMPLIANCE REPORT- OCT 2019 - MAR 2020.pdf

The Director
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan, Aliganj, Jorbagh Road,
New Delhi – 110 003

Sub: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Ref.: Environmental clearances granted for expansion of petrochemical unit, by MOEF & CC vides clearance no.

1) **PA-I EXPANSION EC NO-J-11013/14/2007-IA II (I) dated: 12th June, 2007**
2) **PA-II EC NO -J-11012/78/96-IA dated 20th June 1997**
3) **PA-II & BENZOIC ACID EC NO- J-11011/994/2007/I A (II) I, Dated: 03.12.2009**
4) **PA-IV,MA-IV,BENZOIC ACID EXPANSION-PLASTICIZER EC NO J-1011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018**
5) **MA-III EC NO -J-11011/986/2007-IA –II(I) dated 2nd April 2008**

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 **Oct 2019 - Mar 2020.** We hope the above is to your satisfaction.

Thanking You,

Yours faithfully
FOR I. G. PETROCHEMICALS LTD

(AJIT BAGADE)
PRESIDENT OPERATIONS

CC to:

1. **The CCF, Regional Office, Western Region, Ministry of Environment, Forests & Climate Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440001**
2. **The Member Secretary, Maharashtra Pollution Control Board, 3rd floor, Kalpataru Point, Sion, Mumbai – 400 022.**

Dhairyasheel

From: Dhairyasheel <drshinde@igpetro.com>
Sent: 13 June 2020 16:36
To: archituprit.cpcb@nic.in
Subject: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Attachments: EC COMPLIANCE REPORT- OCT 2019 - MAR 2020 .pdf

The Director
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan, Aliganj, Jorbagh Road,
New Delhi – 110 003

Sub: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Ref.: Environmental clearances granted for expansion of petrochemical unit, by MOEF & CC vides clearance no.

1) **PA-I EXPANSION EC NO-J-11013/14/2007-IA II (I) dated: 12th June, 2007**
2) **PA-II EC NO -J-11012/78/96-IA dated 20th June 1997**
3) **PA-II & BENZOIC ACID EC NO- J-11011/994/2007/I A (II) I, Dated: 03.12.2009**
4) **PA-IV,MA-IV,BENZOIC ACID EXPANSION-PLASTICIZER EC NO J-1011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018**
5) **MA-III EC NO -J-11011/986/2007-IA –II(I) dated 2nd April 2008**

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 **Oct 2019 - Mar 2020.** We hope the above is to your satisfaction.

However, Please be noted that the hard copies are sent through speed post, but we expect the same may be delayed due to the pandemic and lock-down situation. Therefore the soft copies are enclosed herewith for your ready reference.

Thanking You,

Yours faithfully
FOR I. G. PETROCHEMICALS LTD

(AJIT BAGADE)
PRESIDENT OPERATIONS

CC to:

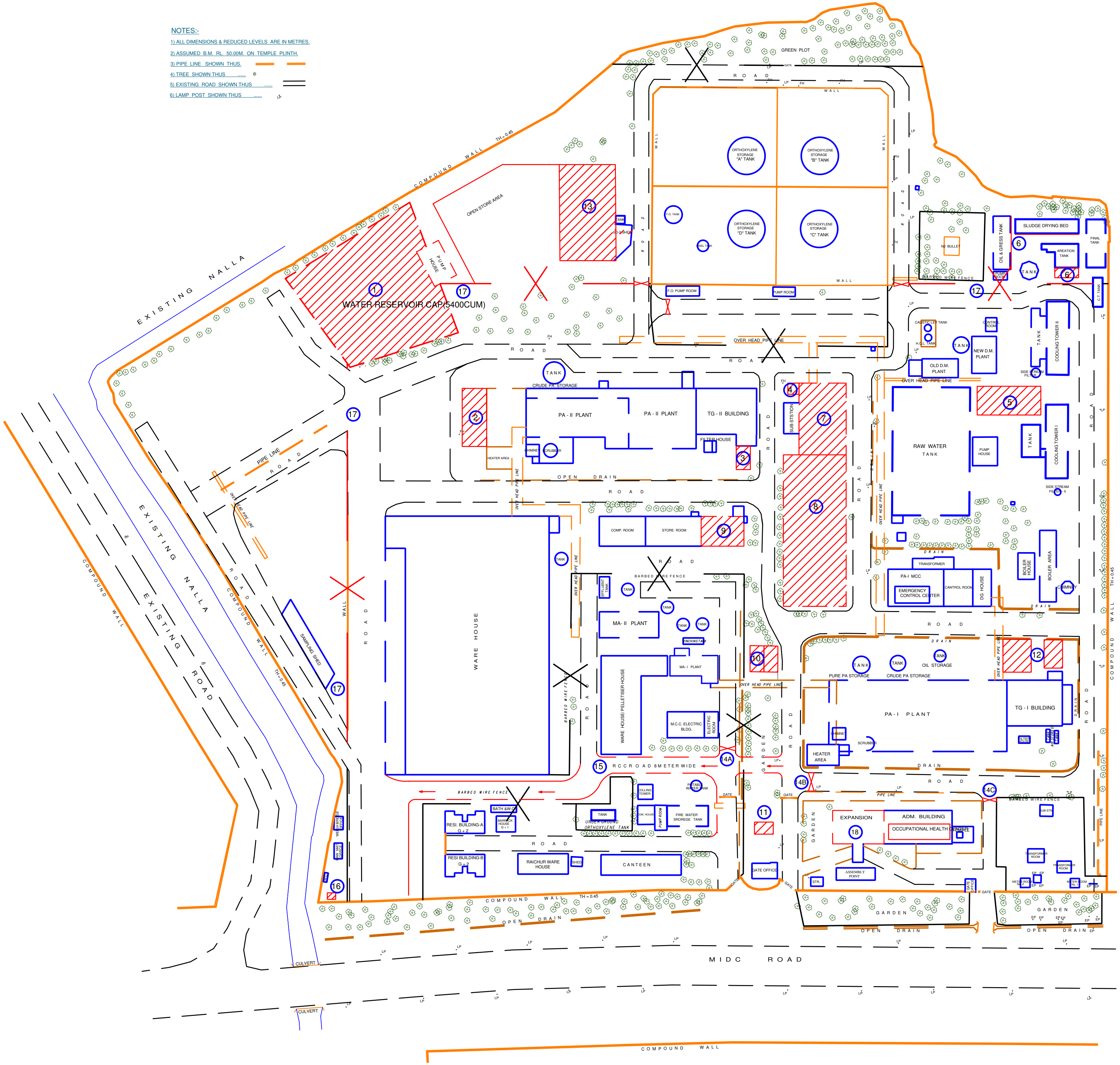
1. **The CCF, Regional Office, Western Region, Ministry of Environment, Forests & Climate Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440001**

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**.

ANNEXURE - VI

Photographs of Raw Material Storage

ANNEXURE-VII



PROPOSED EXPANSION FOR PA - 3 PLANT.

DETAILS :-

1. FIRE WATRE TANK / RAW WATER TANK.
2. WASH WATER /PPA/CPA STORAGE TANKS.
3. FILTER HOUSE FOR TG-3.
4. SUB STATION FOR PA - 3.
5. COOLING TOWER -3.
6. ETP AUGMENTATION.
7. PA -3 MCC 1st FLOOR.
8. PA-3 OXIDATION & SUBLINATION.
9. 1st FLOOR ON LAB.
10. INSTRUMENT WORK SHOP.
11. FIRST AID CENTER.
12. TG-4 POWER EXPORT TURBINE.
13. NEW STORE & ENG. WORKSHOP.
14. A/B/C GATES.
15. NEW ROADWAY.
16. TOWER + ELEVATION HEIGHT 63 M.
17. BARBED WIRE FENCING
18. ADMN. BUILDING

TOTAL STATION SURVEY OF LAND ON PLOT No. T-2 OF MIDC TALOJA, DISTRICT - RAIGAD.

SCALE :- 1 : 500 DATE :- 03-05-2007 survey by : m.b. andurlekar & associates.

Job No 2007/244

ANNEXURE VIII

Note on Occupational Health Surveillance Programme & Proper house keeping and adequate occupational health programme

1. All employees and contract employees are undergoing bi-annually medical check up every year in the month of January and July through Certifying Surgeon appointed by State Government of Maharashtra.

2. These medical check ups includes general medical examination, weight, height, eye sight, Blood Pressure, lung function test, routine blood examination, routine urine examination and X-ray once in a year.

3. Medical check up reports are available since 2006. As due to flood in July, 2005 all records since commissioning of the plant at Taloja have been lost.

4. Pre-employment medical check up is being carried out for each new recruitee.

5. Employees if meets with any accident or fall sick during the working ours, such employees is admitted or giving treatment in Dr. Gandhi's Hospital, Panvel located at about 14 KM from factory.

6. Full time appointed qualified doctor is appointed as medical officer and is available in factory during general shift.First aid facility is provided at the factory and managed by a whole time during in the General shift. During wee hours first aid Center is looked by mail nurse.

7. First aid centre is equipped with oxygen cylinder, Breathing Apparatus and essential medicines.

8. Ambulance is stationed at factory for all 24 hours and equipped with 2 structures and 2 oxygen cylinders and other accessories.

9. First aid training programmes are conducted every alternative month and about 70 employees trained in first aid.

10. First aider training of employees is being conducted by St. Johns Ambulance Institute, which has nation wide network. Retraining of first aider training is being carried out.

ANNEXURE - IX

BUDGET FOR ENVIRONMENT MONITORING & CONTROL		
SL No	**HEADS**	**LACKS**
1	Chemicals for ETP, RO & MEE plant operation	150
2	ETP Operation & Maintenance	100
3	Environmental monitoring	18
4	Hazardous waste disposal	100
5	AMC for OCEMS & ETP on line analysers	5
	Total	**373**

ANNEXURE-X

THE FREE PRESS JOURNAL ■ Mumbai ■ Saturday June 30, 2007

PUBLIC ANNOUNCEMENT

The proposed debottlenecking and resultant expansion of manufacturing capacity at I. G. Petrochemicals Ltd's plant at T 2, MIDC Taloja 410208, Dist. Raigad, has been accorded environmental clearance by The Ministry of Environment & Forests, Govt. of India. Copies of the clearance are available with Maharashtra Pollution Control Board and on ministry web site http://envfor.nic.in

नवशक्ति, मुंबई, शनिवार ३० जून २००७

जाहीर सूचना

भारत सरकारच्या वन व पर्यावरण मंत्रालयाने आय.जी. पेट्रोकेमिकल्स लि. टी - २, एम. आय. डी. सी. तळोजा - ४१०२०८ जि. रायगड येथील कारखान्याच्या नियोजित यंत्रसुधारणा व त्यामुळे होणाऱ्या उत्पादन वाढीस मान्यता दिली आहे. मान्यतापत्र महाराष्ट्र प्रदूषण नियंत्रण मंडळ व वन / पर्यावरण मंत्रालयाची वेबसाईट http://envfor.nic.in येथे उपलब्ध आहे.

PUBLIC ANNOUNCEMENT

The Proposed 'Expansion of Petrochemicals and synthetic organic chemicals manufacturing facility at Plot No. T-2, Taloja Industrial Area, MIDC Taloja, Dist. Raigad by I G Petrochemicals Ltd. has been accorded Environmental Clearance by the Ministry of Environment, Forest & Climate Change vide letter no. J-11011/73/2016-IA-II (I) dated 20th February 2018. Copy of the said environment clearance is available with Maharashtra Pollution Control Board & on website of the MoEF & CC at http://environmentclearance.nic.in/onlinesearchmodi.aspx?pid=ECAmendgrant

I G Petrochemicals Ltd.
Authorized Signatory

जाहीर नोटीस

सर्व संबंधितांना माहिती देण्यात येते की, प्लॉट क्रमांक टी-२, तळोजा एम.आय.डी.सी., जिल्हा रायगड, महाराष्ट्र येथील आय. जी. पेट्रोकेमिकलस लि. द्वारा प्रस्तावित प्रकल्प, कृत्रिम सेंद्रिय रासायनिक उत्पादन सुविधेच्या संबंधित असून या प्रकल्पाला पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार (MoEF & CC) समितीने संमती संदर्भ अक्षर क्र. J-11011/73/2016-IA-II (I), दिनांक २० फेब्रुवारी २०१८ प्रमाणे दिली आहे. सदर पर्यावरणीय समंती पत्राची प्रत महाराष्ट्र प्रदूषण नियंत्रण मंडळाकडे तसेच मंत्रालयाच्या पर्यावरणीय विभागाच्या http://environmentclearance.nic.in/onlinesearchmodi.aspx?pid=ECAmendgrant या संकेत स्थळावर उपलब्ध आहे.

आय.जी.पेट्रोकेमिकलस लि.
अधिकृत सहीधारक

ANNEXURE – XI

EFFLUENT TREATMENT PLANT OVERVIEW

1. Description:

1.1 Primary Treatment

In the Primary Treatment Section the process effluent will be first passed through an Oil & Grease separation tank. After correction of pH with HCl, the neutralised Process effluent will be further coagulated with Ferrous Sulphate and neutralised with Hydrated Lime. After flocculation with a Polyelectrolyte the effluent will be clarified in a Primary Clarifier and will be collected in Trickling Filter Feed Sump for further secondary treatment.

1.2 Secondary Treatment

The clarified effluent from the Trickling Filter Feed sump will be pumped to the Trickling Filter as biodegradation polishing treatment. The anaerobically anoxically biodegraded effluent will be passed through a clarifier to separate the biomass and clarified effluent will be fed to the aerobic biodegradation
treatment from where the effluent with biomass will be clarified of biomass in a secondary clarifier.

The domestic effluent generated on the premises will be transferred to the aeration tank for biodegradation as well as a source of biomass and nutrients.

1.3 Tertiary Treatment

The clarified effluent from the secondary clarifier will be treated though a Pressure Sand Filter and an Activated Carbon Adsorber. The treated effluent will then be collected in the final treated effluent collection sump for discharge to MIDC sewer for further treatment at Taloja CETP as a Phase I activity.

The Phase II activity will comprise of further treating the ETP Treated Effluent by 2 stage Reverse Osmosis System. The Permeate generated will be recycled and reused in the process plant for suitable activity while the Reject generated will be evaporated to separate the salt which will be landfilled at the authorised Secured Landfill site.

1.4 Reverse Osmosis Systems

The treated effluent from ETP and the utility effluent from CT and DM will be combined Upgradation of ETP including Phase II for proposed PA – IV & Plasticizer together and fed to Ultra Filtration (UF) and Reverse Osmosis (RO) system. There will be 2 parallel equal streams for UF/RO for operational

flexibility. It is envisaged that 2 stage Reverse Osmosis systems complete with all peripherals will be required for maximum recovery of reusable permeate. The permeate will be recycled and reused depending upon the quality of permeate and suitability of reuse in the process.
The Reject from both the RO Systems will be evaporated in the Multi Effect Evaporator and the salt separated will be sent for Secured Landfill. The Condensate will be treated in the ETP.

1.5 Multi Effect Evaporator

A multiple effect evaporator will be provided to treat RO Rejects as well as to separate salt from the MA Plant Caustic Neutralised effluent and Heater Scrubber neutralized effluent. The condensate will require further treatment and will therefore be treated in the ETP. The evaporator will be followed by agitated thin film dryer to ensure conversion of the slurry to almost dry solids. The salt thus separated will be disposed off to secured landfill.

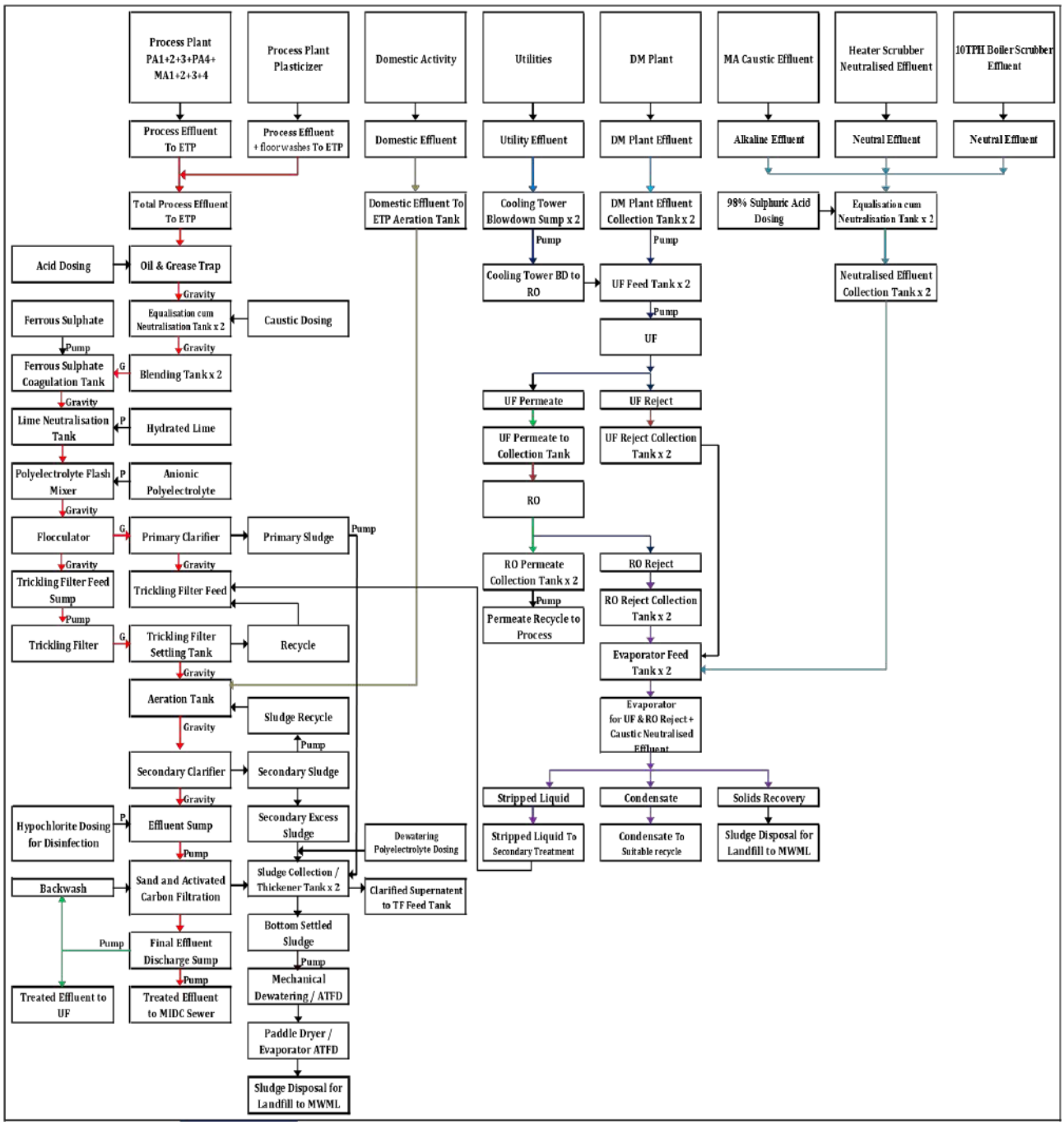
1.6 Sludge Handling

Sludge from sludge collection tank is pumped to dewatering system where the dry sludge is collected in bags and the filtrate flows via drain to Trickling filter sump. Sludge is disposed to sludge disposal site CHWTSDF, Taloja.

Details of various units provided in ETP are as below:

Sr. No	Name of Unit	Size m x m x m	Nos	Total Liquid Volume/ Plan Area	MOC
1	Oil and grease removal	10 x 1.5 x 3	1	45	RCC with epoxy
2	Equalization Tank For Process	6.5 x 5 x 3	2	195	
3	Equalization Tank For DM	6.5 x 5 x 3	2	195	
4	CT Blowdown Sump	8x 5 x 3	2	240	
5	Equalization Tank For MA Caustic Neutralized Effluent &Heater Scrubber Neutralized Effluent	6 x 3 x 2	2	72	RCC with Epoxy
6	Blending tank	6 x 6 x 3	2	216	RCC with Epoxy
7	RO feed tank	9 x 9 x 3	4	972	RCC with Epoxy
8	Evaporator feed tank	6 x 6 x 2.5	2	180	RCC with Epoxy
9	Ferrous Sulphate Coagulation Tank	1 x 1 x 1	1	1	RCC with Epoxy
10	Lime Neutralization Tank	1.5 x 1.5 x 1.5	1	2.25	RCC with Epoxy
11	Polyelectrolyte Flash Mixer	0.5 x 0.5x 0.5	1	0.13	PP/HDPE
12	Flocculator	1.25 dia x 1.5	1	1.8	MS EP
13	Primary Clarifier	3 dia x 2.5	1	17.7	RCC
14	Trickling Filter Feed Tank	7 x 7 x 3	1	147	RCC
15	Trickling filter	10 dia x 5	1	393	RCC
16	Trickling Filter Settling Tank	4x 4 x 3	1	48	RCC
17	Aeration Tank	10 x 10 x 4.5	1	450	RCC
18	Secondary Clarifier	6 dia x 3	1	85	RCC
19	Sludge collection tank	2.6 dia x 3	2	32	RCC
20	Treated Effluent PSF feed sump	5 x 5 x 2.5	1	63	RCC
21	Hypochlorite disinfection tank	2 dia x 2	1	6	RCC with epoxy/tiling
22	Final treated effluent sump (UF Feed)	10 x 10 x 3	1	300	RCC covered tank
23	UF Permeate (RO 1 feed)				RCC covered tank
24	RO Permeate tank	8 x 8 x 3	4	768	RCC covered tank
25	RO Reject Stage 2	5 x 4 x 3	2	120	RCC covered with lining /tiling
26	Evaporator plan area	25 x 7.5	1	187.5	

ETP FLOW DIAGRAM



June 2020

ANNEXURE - XII

MPCB DISPLAY BOARD

ITY OF AIR EMISSION (SPECIFY THE RELEVANT POLLUTANT FOR THE STRY) :

SR. NO.	SOURCE	PRESCRIBED PARAMETER	PRESCRIBED LIMITS	ACTUAL RESULT
1	BOILER	TPM	100 mg/Nm3	56 mg/Nm3
		SO2	1700 mg/Nm3	54.18 mg/Nm3
		NOx	450 mg/Nm3	135 mg/Nm3
		CO	200 mg/Nm3	0.40 mg/Nm3
2	HEATER 1	TPM	100 mg/Nm3	4.13 mg/Nm3
		SO2	1700 mg/Nm3	38 mg/Nm3
		NOx	450 mg/Nm3	114 mg/Nm3
		CO	200 mg/Nm3	1.5 mg/Nm3
3	HEATER 2	TPM	100 mg/Nm3	16.6 mg/Nm3
		SO2	1700 mg/Nm3	232 mg/Nm3
		NOx	450 mg/Nm3	15.6 mg/Nm3
		CO	200 mg/Nm3	1.5 mg/Nm3
4	PA 1 SCRUBBER	SO2	850 mg/Nm3	12.2 mg/Nm3
		NOx	350 mg/Nm3	5.3 mg/Nm3
		TOC	150 mg/Nm3	N.D.
		TPM	50 mg/Nm3	0.4 mg/Nm3
5	PA 2 SCRUBBER	SO2	1700 mg/Nm3	7.3 mg/Nm3
		NOx	450 mg/Nm3	14.5 mg/Nm3
		TOC	150 mg/Nm3	N.D.
		TPM	100 mg/Nm3	14.3 mg/Nm3
6	PA 3 SCRUBBER	SO2	1700 mg/Nm3	3.8 mg/Nm3
		NOx	450 mg/Nm3	11.4 mg/Nm3
		TOC	150 mg/Nm3	N.D.
		TPM	100 mg/Nm3	10.8 mg/Nm3
7	DG	SO2	50 ppm	3.15 PPM
		NOx	50 ppm	12.5 PPM
		TPM	150 mg/Nm3	43.5 mg/Nm3

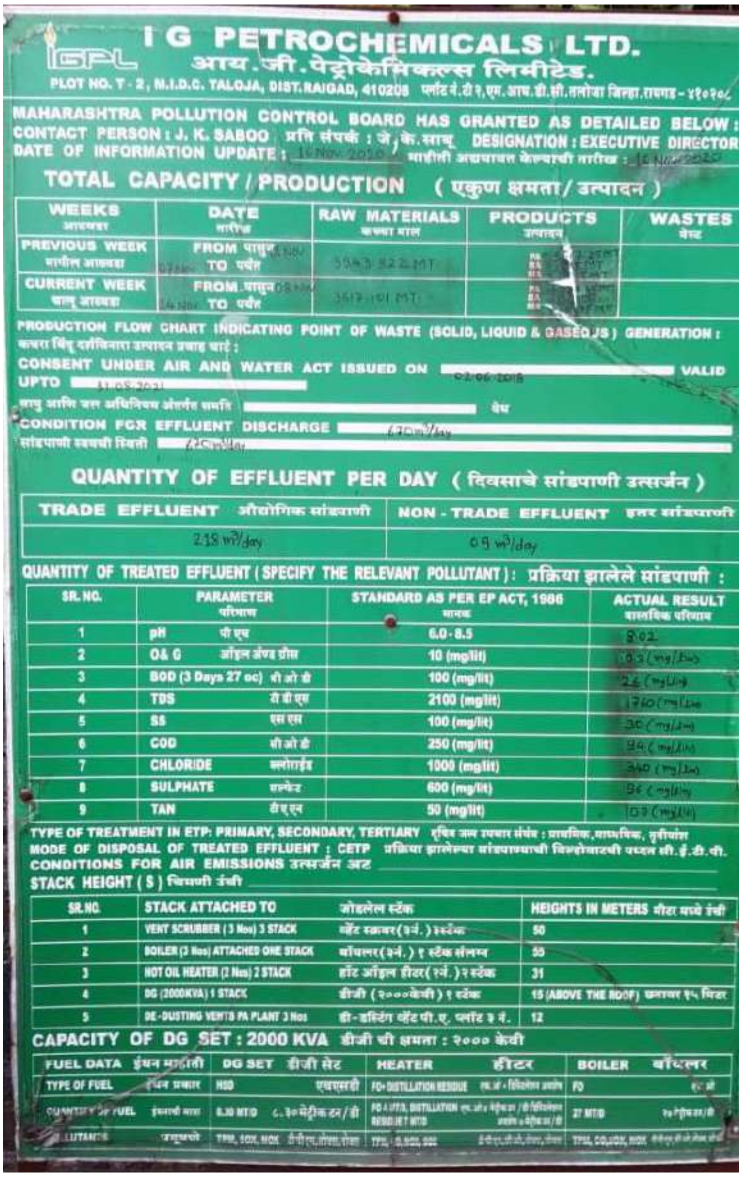
AUTHORIZATION UNDER HAZARDOUS WASTE (MANAGEMENT & HANDLING) RULES ISSUED ON

VALID UPTO

SR. NO.	DATE OF GENERATION	TYPE OF WASTE	CATEGORY OF WASTE	CONSENT QUANTITY	MODE OF STORAGE	DISPOSAL DATE AND METHOD	CUMULATIVE DISPOSAL
1		DISCARDED LINER, CONTAINER	33.1	190 Nos/A		29/11/2020	0.97 MT
2		DISCARDED BAGS	33.1	8.7 MT/A	GODOWN		0.73 MT
3		CHEMICALS SLUDGE FROM WATER TREATMENT	35.3	16 MT/A	Godown	09/10/2020	5.27 MT
4		SPENT CARBON	36.2	23.7 MT/A	—		3.78 MT
5		ASH FROM INCINERATION	37.2	9.5 MT/A	—		
6		SPENT CATALYST	1.4	80 MT/A	—		
7		USED OIL	5.1	35 MT/A	—	04/11/2020	11.4 MT
8		DISCARDED ASBESTOS	15.2	43 MT/A	—		
9		ORGANIC RESIDUE (TANK CLEANING)	1.4	36 MT/A	—	10/10/2020	47.72 MT
10		STILL BOTTOM DISTILLATION	1.2	4055 MT			
11		E WASTE		500 Kg/M	Recycled	01/10/2020	0.16 MT
12		BIOMEDICAL WASTE		12 kg/M	Plastic Bags		
13		PLASTIC WASTE		500 Kg/M			
14		BATTERY WASTE		100 Nos/M			

USE OF HAZARDOUS CHEMICALS

HAZARDOUS CHEMICALS	QUANTITY STARED	SAFETY MEASURES FOR STORAGE & HANDLING
O-XYLENE	8612 TON	ABOVE GROUND SEWAGE TANK WITH STEEL WALL
DIESEL	50 TON	ABOVE GROUND SEWAGE TANK WITH STEEL WALL
FURNACE OIL	250 TON	ABOVE GROUND SEWAGE TANK WITH STEEL WALL
HCL	20 TON	ABOVE GROUND SEWAGE TANK WITH STEEL WALL
[illegible]TICLYE	[illegible] TON	[illegible]


I G PETROCHEMICALS LTD.
IGPL
आय.जी.पेट्रोकेमिकल्स लिमीटेड.
PLOT NO. T - 2, M.I.D.C. TALOJA, DIST.RAIGAD, 410208
MAHARASHTRA POLLUTION CONTROL BOARD HAS GRANTED AS DETAILED BELOW :
CONTACT PERSON : J. K. SABOO प्रति संपर्क : जे. के. साबू DESIGNATION : EXECUTIVE DIRECTOR
DATE OF INFORMATION UPDATE : 16 Nov 2020
TOTAL CAPACITY / PRODUCTION (एकुण क्षमता / उत्पादन)
WEEKS
DATE
RAW MATERIALS
PRODUCTS
WASTES
PREVIOUS WEEK
FROM
TO
5543.522 MT
CURRENT WEEK
FROM 08 Nov
14 Nov TO
3617.101 MT
PRODUCTION FLOW CHART INDICATING POINT OF WASTE (SOLID, LIQUID & GASEOUS) GENERATION :
CONSENT UNDER AIR AND WATER ACT ISSUED ON 02/06/2018 VALID UPTO 31/05/2021
CONDITION FOR EFFLUENT DISCHARGE
QUANTITY OF EFFLUENT PER DAY (दिवसाचे सांडपाणी उत्सर्जन)
TRADE EFFLUENT
218 m³/day
NON - TRADE EFFLUENT
0.9 m³/day
QUANTITY OF TREATED EFFLUENT (SPECIFY THE RELEVANT POLLUTANT): प्रक्रिया झालेले सांडपाणी :
SR. NO. PARAMETER STANDARD AS PER EP ACT, 1986 ACTUAL RESULT
1 pH 6.0 - 8.5 8.02
2 O& G 10 (mg/lit)
3 BOD (3 Days 27 oc) 100 (mg/lit)
4 TDS 2100 (mg/lit)
5 SS 100 (mg/lit)
6 COD 250 (mg/lit)
7 CHLORIDE 1000 (mg/lit)
8 SULPHATE 600 (mg/lit)
9 TAN 50 (mg/lit)
TYPE OF TREATMENT IN ETP: PRIMARY, SECONDARY, TERTIARY
MODE OF DISPOSAL OF TREATED EFFLUENT : CETP
CONDITIONS FOR AIR EMISSIONS
STACK HEIGHT (S)
SR.NO. STACK ATTACHED TO HEIGHTS IN METERS
1 VENT SCRUBBER (3 Nos) 3 STACK 50
2 BOILER (3 Nos) ATTACHED ONE STACK 55
3 HOT OIL HEATER (2 Nos) 2 STACK 31
4 DG (2000KVA) 1 STACK 15 (ABOVE THE ROOF)
5 DE-DUSTING VENTS PA PLANT 3 Nos 12
CAPACITY OF DG SET : 2000 KVA
FUEL DATA
DG SET
HEATER
BOILER
TYPE OF FUEL
HSD
FO+DISTILLATION RESIDUE
FO
27 MT/D

ANNEXURE - XIII

Mumbai Waste Management Ltd.
Plot No. P-32 & Part, MIDC Taloja, Tal.Panvel,
Dist. Raigad, Maharashtra 410 208. India
Phone: 8422877163 / 65 / 7710082601
Phone: 7304992789 / 90 / 91 / 92 & 93
Email: mbdmwml@ramky.com
www.mumbaiwastemanagement.com
CIN: U90001TG2001PLC037829

Towards sustainable growth

31st March 2020

M/s. I G Petrochemicals Limited
T2 – MIDC, Taloja Industrial Area,
Dist. Raigad , Panvel – 410 208
Tel no. 022- 3928 9100

Membership No. MWML- HzW – TAL– 946

Kind Attn: Mr. Dhairyasheel Shinde

Dear Sir,

We are pleased to extend your Membership Registration up to **31st March, 2021.**

Kindly complete all the pending formalities to enable waste collection logistics within this period.

Please do contact us for any further details.

Thanks & Best Regards,
for **Mumbai Waste Management Ltd.**

31/3/2020

Somnath Malgar
Project Head

ANNEXURE - XIV

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

FORM FOR FILING ANNUAL RETURNS

[To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to march]

Unique Application Number:
MPCB-HW_ANNUAL_RETURN-0000014626

Submitted On:
24-06-2020

Submitted for Year:
April 2019 to March 2020

1. Name of the generator/operator of facility
I G Petrochemicals Ltd

Address of the unit/facility
Plot No T 1 & T 2, Taloja Industrial Area, MIDC Taloja, Tal- Panvel, Dist - Raigad, 410208

1b. Authorization Number	*Date of issue*	*Date of validity of consent*
Formate 1.0/ BO/CAC- Cell UAN No- 30425/ 2nd CAC/ 1806000105	Jun 2, 2018	Aug 31, 2021

2. Name of the authorised person
Mr Dhairyasheel Shinde

Full address of authorised person
Plot No T 1 & T 2, Taloja Industrial Area, MIDC Taloja, Tal- Panvel, Dist - Raigad, 410208

Telephone	*Fax*	*Email*
2268479179	2227410192	drshinde@igpetro.com

3.Production during the year (product wise), wherever applicable

*Product Type **	*Product Name **	*Consented Quantity*	*Actual Quantity*	*UOM*
Petrochemicals	Phthalic Anhydride	169110.00	152021.675	MT/A
Petrochemicals	Benzoic Acid	1000.00	728.96	MT/A
Petrochemicals	Maleic Anhydride	6500.00	4459.5	MT/A

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	*Wate Name*	*Consented Quantity*	*Quantity*	*UOM*
1.2 Tarry residues and still bottoms from distillation	Still bottom from distillation process	4055.80	2717.771	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	80.00	23.34	MTA
5.1 Used or spent oil	Used or spent oil	35.00	5.2	MTA
15.2 Discarded asbestos	Discarded asbestos	43.00	3.05	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	190.00	0.73	MTA
36.2 Spent carbon or filter medium	Spent carbon	23.70	2.549	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	18.00	16.871	MTA

1.4 Organic residues	Organic residue	36.00	107.03	MTA

2. Quantity dispatched category wise.

Type of Waste	***Quantity of waste***	***UOM***	***Dispatched to***	***Facility Name***
1.6 Spent catalyst and molecular sieves	23.34	MTA	Disposal Facility	Mumbai Waste Management Ltd
5.1 Used or spent oil	5.2	MTA	Recycler or Actual user	Poonam Petrochem Pvt. Ltd.
15.2 Discarded asbestos	3.05	MTA	Disposal Facility	Mumbai Waste Management Ltd
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0.73	MTA	Disposal Facility	Mumbai Waste Management Ltd
36.2 Spent carbon or filter medium	2.549	MTA	Disposal Facility	Mumbai Waste Management Ltd
35.3 Chemical sludge from waste water treatment	16.871	MTA	Disposal Facility	Mumbai Waste Management Ltd
1.4 Organic residues	107.03	MTA	Disposal Facility	Mumbai Waste Management Ltd

3. Quantity Utilised in-house,If any

Type of Waste	***Name of Waste***	***Quantity of Waste***	***UOM***
1.2 Tarry residues and still bottoms from distillation	Still bottom from distillation process	2717.771	MTA

4. Quantity in storage at the end of the year

Type of Waste	***Name of Waste***	***Quantity of Waste***	***UOM***
1.2 Tarry residues and still bottoms from distillation	Still bottom from distillation process	0	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	0	MTA
5.1 Used or spent oil	Used or Spent oil	0	MTA
15.2 Discarded asbestos	Discarded asbestos	0	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0	MTA
36.2 Spent carbon or filter medium	Spent carbon	0	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	0	MTA
1.4 Organic residues	Organic Residue	0	MTA

PART B: To be filled bt Treatment,storage, and disposal facility operators

1.Total Quantity received	***UOM***	***State Name***
NA	KL/Anum	Other

2. Quantity in stock at the beginning of the year	***UOM***
NA	KL/Anum

3. Quantity treated	***UOM***
NA	KL/Anum

4. Quantity disposed in landfills as such and after treatment

Direct landfilling	***UOM***
NA	KL/Anum

Landfill after treatment	***UOM***
NA	KL/Anum

5. Quantity incinerated (if applicable)	***UOM***
NA	KL/Anum

6. Quantiry processed other than specified above	***UOM***
NA	KL/Anum

7. Quantity in storage at the end of the year.	***UOM***
NA	KL/Anum

PART C: To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year

Waste Name/Category	***Country Name***	***State Name***	***Quantity of waste received from domestic sources***	***Quantity of waste imported(If any)***	***Units***
NA	NULL	Other	NA	NA	KL/Anum

2. Quantity in stock at the beginning of the year

Waste Name/Category	***Quantity***	***UOM***
NA	NA	KL/Anum

3. Quantity of waste recycled or co-procesed or used

Name of Waste	***Type of Waste***	***Quantity***	***UOM***
NA	NA	NA	KL/Anum

4. Quantity of products dispatched (wherever applicable)

Name of product	***Quantity***	***UOM***
NA	NA	KL/Anum

5. Total quantity of waste generated

Waste name/category	***quantity***	***UOM***
NA	NA	KL/Anum

6. Total quantity of waste disposed

Waste name/category	***quantity***	***UOM***
NA	NA	KL/Anum

7. Total quantity of waste re-exported (If Applicable)

Waste name/category	***quantity***	***UOM***
NA	NA	KL/Anum

8. Quantity in storage at the end of the year

Waste name/category	***quantity***	***UOM***
NA	NA	KL/Anum

Personal Details

Place	***Date***	***Designation***
Taloja	2020-06-24	Dy. General Manager

ANNEXURE - XV

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (R57)
No:- Format1.0/CAC/UAN No.0000081902/CO -2003001032

Date: 16/03/2020

To,
M/s I G Petrochemicals Ltd.,
Plot Nos. T-1 & T-2, Taloja Industrial Area,
MIDC Taloja, Tal. Panvel, Dist. Raigad - 410 208.

Sub: **Grant of 1st Consent to Operate for expansion (part) and amalgamation with existing Consent to Operate.**

Ref:
1. Environment Clearance accorded by MoEF&CC, GoI vide F.No. J-11011/73/2016-IA-II(I) dtd. 18/07/2017.
2. Consent to Establish accorded by Board vide No. Format 1.0/BO/CAC-Cell/UAN No. 0000036672/2nd CAC-1808000654 dtd. 16/08/2018.
3. Consent to Operate renewal accorded by Board vide No. Format 1.0/BO/CAC-Cell/UAN No. 0000076454/CO-1911000126 dtd. 02/11/2019.
4. Minutes of Consent Appraisal Committee meeting held on 30 & 31/01/2020.

Your application No.MPCB-CONSENT-0000081902 Dated 24.10.2019

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to operate is granted for a period up to 31/08/2021**
2. **The capital investment of the project is Rs.1132.18 Crs. (As per undertaking submitted by pp Existing-Rs. 826.93 Crs + Expansion/Increase in C.I. - Rs. 305.25 Crs)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	MALEIC ANHYDRIDE	7660	MT/A
2	PHTHALIC ANHYDRIDE	222110	MT/A
3	BENZOIC ACID	1500	MT/A
4	Power (Transmitted to Grid)	2.5	MW

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	791	As per Schedule-I	Recycle treated effluent into process, cooling tower make up, firefighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP
2.	Domestic effluent	36	As per Schedule-I	As above

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1	Boiler (3 Nos.)	1	As per Schedule -II
2	S-2	Hot Oil Heaters (2 Nos.)	1	As per Schedule -II
3	S-3 to S-10	Process Vents (8 Nos.)	1	As per Schedule -II
4	S-11	D.G. Set (2000 KVA)	1	As per Schedule -II
5	S-12	Hot Oil Heater/Thermal Oxidizer(TO)	1	As per Schedule -II
6	S-13	Process Scrubber	1	As per Schedule -II
7	S-14	PA De-Dusting filter	1	As per Schedule -II
8	S-15	D.G. Set (2500 KVA)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Debris during maintenance activities like insulation/packing material/scrap iron etc.	8.5	MT/M	NA	Sale to Auth. Party/ CHWTSDF
2	Biological sludge from waste water treatment	35	MT/M	NA	Used as manure for gardening

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	1.2 Tarry residues and still bottoms from distillation	5467.8	MT/A	Incineration	Used as fuel in oil heater/thermal oxidizer
2	1.4 Organic residues	48	MT/A	Incineration	CHWTSDF
3	1.6 Spent catalyst and molecular sieves	90	MT/A	Incineration	Sent back to Manufacturer/ CHWTSDF
4	5.1 Used or spent oil	45	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
5	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1240	Nos./Y	Reuse/ Recycle	Washed & reuse
6	35.3 Chemical sludge from waste water treatment	18	MT/A	Secured Landfill	CHWTSDF
7	37.2 Ash from incinerator and flue gas cleaning residue	9.5	MT/A	Secured Landfill	CHWTSDF
8	Bio-Medical Waste	12	Kg/M	Incineration	CBMWTSDF
9	37.3 Concentration or evaporation residues	3000	MT/A	Secured Landfill	CHWTSDF
10	36.2 Spent carbon or filter medium	93.7	MT/A	Incineration	CHWTSDF
11	15.2 Discarded asbestos	43	MT/A	Secured Landfill	CHWTSDF
12	Sodium Sulphate	900	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor/ CHWTSDF
13	Phthalic Acid	800	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor/ CHWTSDF
14	Mono Ester Salts	3000	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor/ CHWTSDF
15	37.1 Sludge from wet scrubbers	5	MT/A	Secured Landfill	CHWTSDF
16	Discarded Bags used for Hazardous Chemicals	2.5	MT/A	Incineration	CHWTSDF

8. **Conditions under Batteries (Management & Handling) Rules, 2001:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	Battery Waste	100.00	Nos./Y	Sent back to Manufacturer

Specific Conditions for used Batteries:

i. The applicant shall ensure that used batteries are not disposed of in any manner other than by depositing with the authorized dealer/ manufacturer/ registered recycler/ importer/ re-conditioner or at the designated collection center.

ii. The applicant shall file half-yearly return in Form VIII to the M.P.C. Board.

iii. Bulk consumers to their user units may auction used batteries to registered recyclers only.

9. **Conditions under Plastic Waste Management Rules, 2016 (Notification dtd. 18/03/2016):**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	Plastic Waste	500.00	Kg/M	Sale to Auth. Party/ Recycler

10. **Conditions under E-Waste Management:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	IT/ Telecom, Electrical, Electronics etc.	600.00	Kg/M	Sale to Auth. Party/ Recycler

11 The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.

12 This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

13 Industry shall operate ETP/ APCS to achieve Consented standards.

14 Industry shall recycle treated effluent generated from expansion and reduce existing discharge of treated effluent to CETP from 686 CMD to 220 CMD. Industry shall recycle 607 CMD treated effluent into process, cooling tower make up, firefighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP for further treatment & disposal.

15 Industry shall ensure connectivity and transmission of online to MPCB and CPCB Servers.

16 The applicant shall ensure disposal of by-product to the Actual user having permissions under Rule 9 of Hazardous & Other Wastes (M & TM) Rules, 2016.

17 Industry shall use distillation residue of Phthalic Anhydride and Maleic Anhydride as fuel in heater as permitted by MoEF&CC vide F. No. 23/47/2017-HSM dtd. 19/09/2017.

18 Industry shall comply with the conditions of Environment Clearance accorded by MoEF&CC, GoI vide F.No. J-11011/73/2016-IA-II(I) dtd. 18/07/2017.

19 This consent is issued with overriding effect on earlier Consent to Operate granted by the Board vide no. Consent No. Format 1.0/BO/CAC-Cell/UAN No. 0000076454/CO-1911000126 dtd. 02/11/2019.

For and on behalf of the
Maharashtra Pollution Control Board.

(E. Ravendiran IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1221000.00	TXN1910001765	30/10/2019	Online Payment

Balance amount of Rs. 12,91,418/- (Previous - Rs. 9,86,168/- + Existing - Rs. 3,05,250/-) will be considered at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Taloja
   - They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB,Sion, Mumbai
3. CC-CAC Desk- for record & website updating purpose

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1) **A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity of 709.00 CMD consisting of Primary, Secondary, Tertiary followed by UF, 2 stage RO, 4 Effect MEE & ATFD for the treatment of 791.00 CMD industrial effluent**

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
1	pH	5.5-9.0
2	Oil & Grease	10 mg/l
3	BOD	100 mg/l
4	COD	250 mg/l
5	Suspended Solids	100 mg/l
6	Chloride	600 mg/l
7	Sulphate	1000 mg/l
8	TDS	2100 mg/l
9	TAN	50 mg/l

C] Industry shall recycle 607 CMD treated effluent into process, cooling tower make up, firefighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP for further treatment & disposal. In no any case, effluent shall find its way outside the factory premises directly or indirectly.

2) **A] As per your application, you have provided septic tank and soak pit for the treatment of 36.00 CMD sewage.**

B] Overflow of Soak Pit is taken into Aeration tank of Effluent Treatment Plant (ETP) for further treatment & disposal.

3) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:**

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	4776.00
2.	Domestic purpose	44.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	697.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Grandening	10

4) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:**
5) **Prior permission shall be obtained from CGWA / irrigation department if ground Water/surface water is being used for industrial/Domestic purpose.**
6) **The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 or through NABL accredited laboratories.**

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1) **As per your application, you have provided the Air pollution control (APC) system and erected following stack(s) and observe the following fuel pattern-**

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO_2 Kg/day
S-1	Boilers (3 Nos.)	Stack	55	FO	27 MT/Day	4.50	2430.00
S-2	Hot Oil Heaters (2 Nos.)	Stack	31	FO (4 MT/D) + Distillation Residue (7 MT/D)	11 MT/Day	4.50	360.00
S-3 to S-5	Process Vents (3 Nos.)	Scrubber	50	--	--	--	--
S-6 to S-8	PA De-Dusting filter (3 Nos.)	Wet Scrubber	12	--	--	--	--
S-9	MA Bagging	Wet Scrubber	30	--	--	--	--
S-10	MA Flaker	Bag Filter	30	--	--	--	--
S-11	D.G. Set (2000 KVA)	Acoustic Enclosure/ Stack	15	HSD	8.3 MT/Day	1.00	166.00
S-12	Hot Oil Heater/Thermal Oxidizer(TO)	Wet Scrubber	31	HSD (2.5 MT/D) + Distillation Residue (4.2 MT/D)	6.7 MT/Day	1.00	50.00
S-13	Process Vent	Wet Scrubber	50	--	--	--	--
S-14	PA De-Dusting filter	Bag Filter	12	--	--	--	--
S-15	D.G. Set (2500 KVA)	Acoustic Enclosure/ Stack	30	HSD	380 Kg/Hr	1.00	182.40

2) **The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.**

3) **The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:**

Sr No.	Parameters	Limiting Concentration not to exceed	
1	Total Particulate matter	Not to exceed	150 mg/Nm3
2	NOx (Process)	Not to exceed	50 ppm
3	Acid Mist	Not to exceed	35 mg/Nm3

A. Emission from Chimney /stack

Sr No.	Parameters	Fuel Type	Limiting Concentration not to exceed
1	Sulphur Di Oxide (SO2)	Liquid	850
2	Oxides of Nitrogen (NOx)	Liquid	350
3	Particulate Matter	Liquid	50
4	Carbon Monoxide (CO)	Liquid	150

B. Process Emission (specific from Chimney /stack :

Sr No.	Parameters	Source	Limiting Concentration not to exceed
1	Organic Particulate	PA, MA and TDI Plants	25

C. Load Based Standards :

Sr No.	Parameters	Source	Quantum limit in gm/hour for New/ Expansion Plants (gm/hr)
1	Organic Particulate	Phthalic anhydride (PA), Maleic anhydride (MA), Toluene Di-isocyanate (TDI) plants. process emission	100

4) Storage of Volatile Liquids : General Petroleum/Petrochem Products

1) Storage tanks with capacity between 4 to 75m3 and total vapour Pressure (TVP) of more than 10 kpa should have Fixed Roof Tank (FRT) with pressure valve vent.
2) Storage tank with the capacity between 75 to 500 m3 and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Root Tank (IFRT) or External Floating Root Tank (EFRT) or Fixed Roof Tank with vapour control or vapour balancing system.
3) Storage tanks with the capacity of more than 500 m3 and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Roof Tank or External Floating Roof Tank or Fixed Roof Tank with vapour control system.
4) The tanks with the capacity of more than 75 m3 and total vapour Pressure (TVP) of more than 76 kpa should have Fixed Root Tank with vapour control system.
5) Requirement for seals in Floating Roof Tanks:

i) a) IFRT and EFRT shall be provided with double seals with minimum vapour recovery of 96%.

b) Primary seal shall be liquid or shoe mounted for EFRT and vapour mounted for IFRT. Maximum seal gap width will be 4 cm and maximum gap area will be 200 cm2/m of tank diameter.

c) Secondary seal shall be rim mounted. Maximum seal gap width will be 1.3 cm and maximum gap area will be 20 cm2/m of tank diameter.

d) Material of seal and construction shall ensure high performance and durability

ii) Fixed Roof Tanks shall have vapor control efficiency of 95% and vapour balancing efficiency of 90%

iii) Inspection and maintenance of storage tanks shall be carried out under strict control. For the inspection, API RP 575 may be adopted, In-service inspection with regard seal gap should be carried out once in every six months and repair to be implemented in short time. In future, possibility of on-stream repair of both seals shall be examined.

Iv) Storage tanks shall be painted with white colour shade, except for derogation of visually sensitive area.

5) Storage of Benzone, VCM and ACN

i. FRT with vapour for inceneration with 99.9% of removal efficiency for volatile organic compounds (VOCs) shall be provided, or

ii. IFRT/EFRT with double seals, emissio-reducing roof fitting and fitted with fixed roof with vapour removal efficiency of atleast 99% shall be provided, or

iii. Internal floating roof and nitrogen blanketing in between fixed and floating roofs shall be provided.

6)

Emission control for Road tank truck/Rail tank wagon loading		
Loading of Volatile Products	Gasoline and Naphtha: (i) VOC reduction, %. (ii) Emission, gm/m3	(i) 99.50 (ii) 5.00
	Benzene: (i) VOC reduction, % (ii) Emission, mg/m3	(i) 99.99 (ii) 20.00
	Toluene/Xylene: (i) VOC reduction, % (ii) Emission, mg/m3	(i) 99.98 ii) 150.00

Note:
(i) It shall be applicable for Gasoline, Naphtha, Benzene, Toluene and Xylene loading.
(ii) Road tank Truck shall have Bottom loading and Roll tank wagon shall have Top submerged loading.
(iii) Annual leak testing for vapour collection shall be done.

7) VOC Emission Controls: -

a) The Industry shall take all operational practices & implement control measures to limit VOC emission during breathing (tank evaporative emission) and during filling of storage tanks as mandated under storage tank provision of GSR 186 (E) Dt.18.03.2008.

b) Industry shall keep record indicating type of chemical stored in different tanks & submit the same to MPCB every month.

c) The tanks shall be maintained as per the API RP 575 Standards and provided with modern instrumentation to ensure that there shall be no leakage or spillage during handling.

d) The industry shall have preventive maintenance plan and keep records of preventative maintenance carried out. For IFR Tanks, this shall include regular inspection of seals, seal gap, condition of various sleeves, jackets etc.

e) The industry shall monitor vapor pressure in the tanks. The Industry shall spray water on tanks shells by water sprinklers installed, provided tank vapor pressure exceeds set norms. Industry shall maintain records of operation of fire water sprinkler & submit the same to MPCB every month.

f) The industry shall provide adequate arrangement for capturing VOC emission during tanker filling. This shall include providing compatible lids (with suitable openings for filling pipe and fume extraction vent) to close the manholes on the tanker top so that no VOC emissions leaks into the environment. Alternative bottom loading of tankers with leak proof vapour collection facilities at the manholes will be provided. Compatible loading arms with level gauge, metered flow to tanker to ensure control filling to be provided. Vapour capturing hoses shall be connected to central header and shall have extra provision for collecting VOC emissions from maintenance activities and during pigging of pipelines.

g) The collection header shall be connected to Air pollution control system consisting of brine chiller followed by activated carbon/charcoal to meet slandered as given in DSR -186 (E) Dt.18.03.2008

h) The industry shall explore possibility of collecting vapours from open manholes during tank washing and diverting the same to the air pollution control system provided.

i) Industry shall ensure that the nitrogen /air used during pigging operations shall be diverted to the air pollution control system provided.

j) The air blown from manifold to tanker filling point shall be diverted to air pollution control system provided.

k) High level alarm synchronized with cut off capacity shall be provided to the storage tanks.

l) The internal roads shall b cement concrete and shall be maintained with adequate green belt.

m) The industry shall monitor ambient air quality on a monthly basis and the emission of Volatile Organic Compound particularly Toluene, Xylene and non-methane Hydro Carbon from MoEF approved laboratory.

n) The industry shall not cause any nuisance in surrounding area.

8) Industry shall provide Air Pollution Control System for Paint Booth (Water contain) and leak detection system with alarm.

9) Industry shall install 24*7 online continuous emission monitoring system at process stack to monitor stack emissions as per CPCB guidelines and it's connectivity to CPCB & MPCB Servers . PP shall Calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act , 1986 or NABL accredited laboratories.

10) Project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

11) National Emissions standards for Organic chemicals manufacturing Industry Issued by MOEFCC vide G.S.R. No 608 E DATED 21 July 2010 and amended from time to time shall be followed.

12) The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R. 595 (E) dated 9th November, 2012 as amended time to time be followed.

13) The National Emission Standards for Petrochem (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2O & Amalgamation	2500000	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	31.08.2021	31.12.2021

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV
General Conditions:

1. The waste generator shall.-
   a) take steps to minimize generation of plastic waste and segregate plastic waste at source in accordance with the Solid Waste Management Rules, 2016 or as amended from time to time.
   b) not litter the plastic waste and ensure segregated storage of waste at source and handover segregated waste to urban local body or gram panchayat or agencies appointed by them or registered waste pickers', registered recyclers or waste collection agencies;
2. All institutional generators of plastic waste, shall segregate and store the waste generated by them in accordance with the Solid Waste Management Rules, 2016 amendment from time to time and handover segregated wastes to authorized waste processing or disposal facilities or deposition centers either on its own or through the authorized waste collection agency.
3. All waste generators shall pay such user fee or charge as may be specified in the byelaws of the local bodies for plastic waste management such as waste collection or operation of the facility thereof, etc.;
4. Every person responsible for organizing an event in open space, which involves service of food stuff in plastic or multilayered packaging shall segregate and manage the waste generated during such events in accordance with the Solid Waste Management Rules, 2016 amendment from time to time.
5. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler
6. Bulk consumers of electrical and electronic equipment listed in Schedule I shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
7. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under;
8. Bulk consumers of electrical and electronic equipment listed in Schedule I shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.
9. The Energy source for lighting purpose shall preferably be LED based
10. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
11. Conditions for D.G. Set
    a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
    b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.

d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.

e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.

f) D.G. Set shall be operated only in case of power failure.

g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.

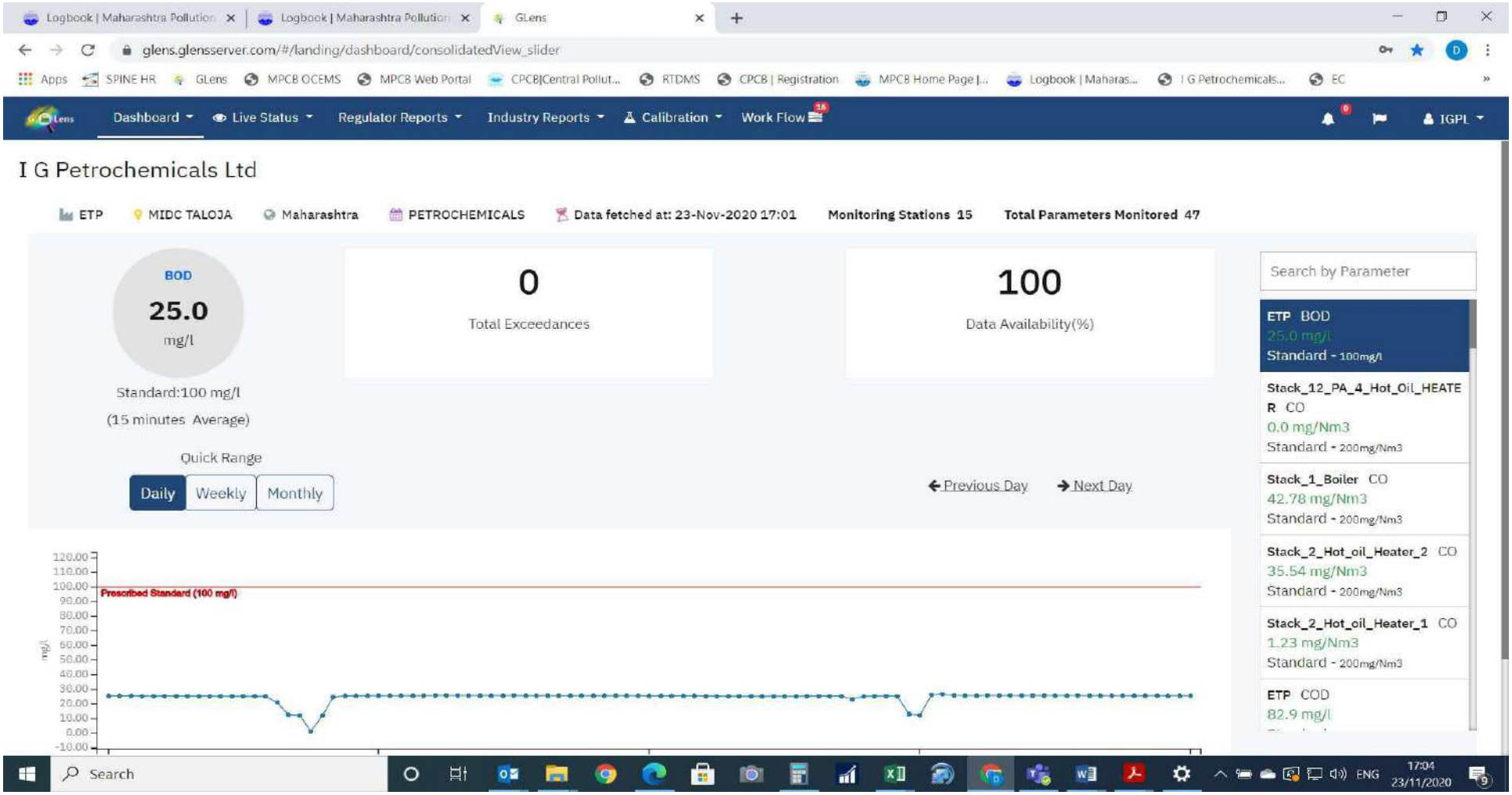
12. The applicant shall maintain good housekeeping.
13. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
14. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
15. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
16. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
17. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
18. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
19. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
20. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
21. The PP shall provide personal protection equipment as per norms of Factory Act
22. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
23. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
24. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.

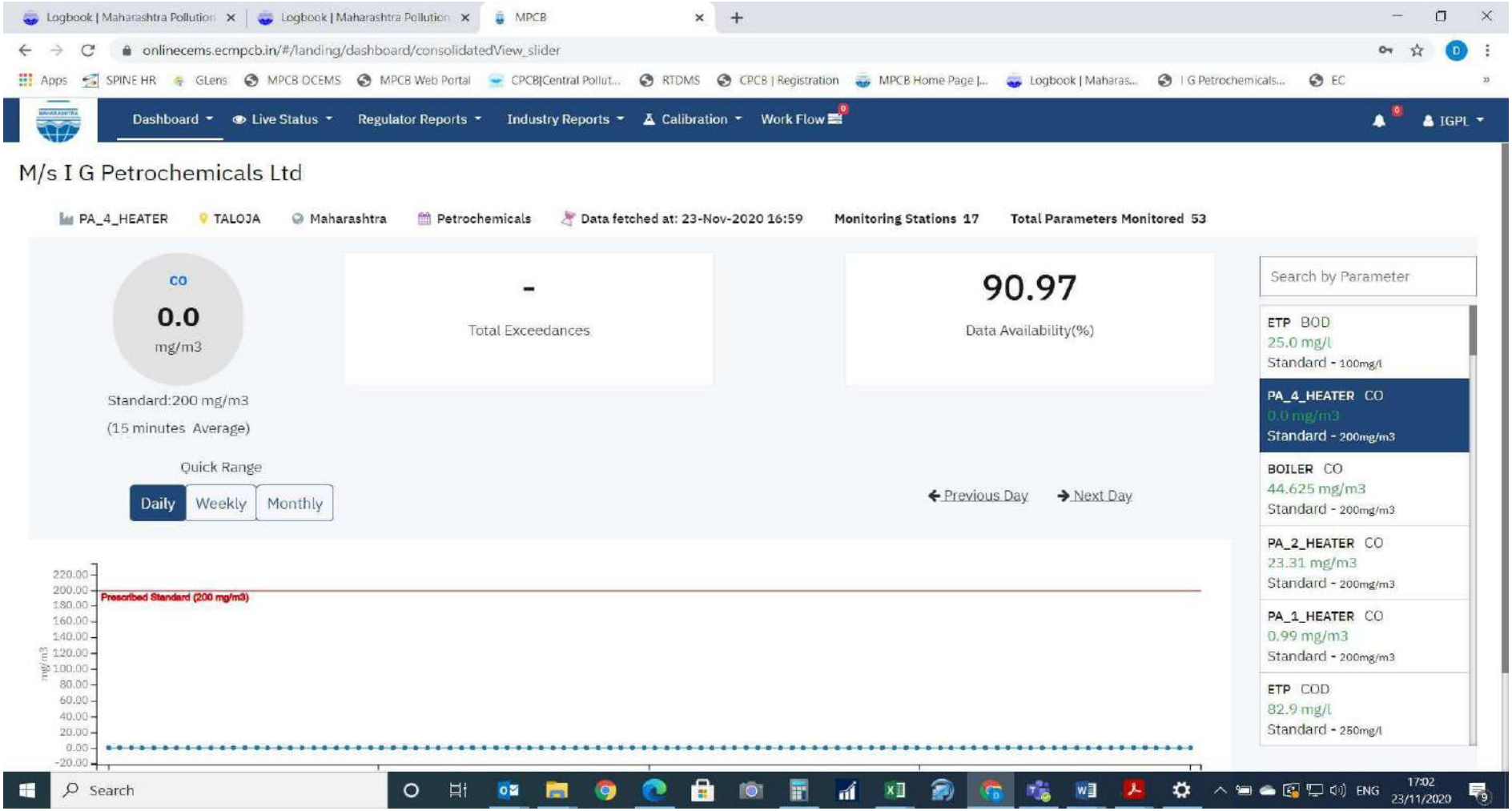
25. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
26. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
27. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
28. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
29. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
30. The industry should not cause any nuisance in surrounding area.
31. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
32. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
33. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
34. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
35. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
36. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
37. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.

38. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
39. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
40. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
41. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

ANNEXURE – 16

OCEMS DASHBOARD




Logbook | Maharashtra Pollution
Logbook | Maharashtra Pollution
MPCB
onlinecems.ecmpcb.in/#/landing/dashboard/consolidatedView_slider
Apps
SPINE HR
GLens
MPCB OCEMS
MPCB Web Portal
CPCB|Central Pollut...
RTDMS
CPCB | Registration
MPCB Home Page |...
Logbook | Maharas...
I G Petrochemicals...
EC
Dashboard
Live Status
Regulator Reports
Industry Reports
Calibration
Work Flow
IGPL
M/s I G Petrochemicals Ltd
PA_4_HEATER
TALOJA
Maharashtra
Petrochemicals
Data fetched at: 23-Nov-2020 16:59
Monitoring Stations 17
Total Parameters Monitored 53
CO
0.0
mg/m3
Standard:200 mg/m3
(15 minutes Average)
-
Total Exceedances
90.97
Data Availability(%)
Search by Parameter
ETP BOD
25.0 mg/l
Standard - 100mg/l
PA_4_HEATER CO
0.0 mg/m3
Standard - 200mg/m3
BOILER CO
44.625 mg/m3
Standard - 200mg/m3
PA_2_HEATER CO
23.31 mg/m3
Standard - 200mg/m3
PA_1_HEATER CO
0.99 mg/m3
Standard - 200mg/m3
ETP COD
82.9 mg/l
Standard - 250mg/l
Quick Range
Daily
Weekly
Monthly
Previous Day
Next Day
Prescribed Standard (200 mg/m3)
mg/m3
220.00
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ANNEXURE - XVII

I G PETROCHEMICALS LIMITED

DETAILS OF EXPENDITURE ON CORPORATE SOCIAL RESPONSIBILITY PERIOD

01.04.2020 TO 31.03.2021 (upto SEP-2020)

SR. NO.	PAID TO	AMOUNT	Voucher No.	Voucher Date
A	BOMBAY OFFICE			
	Total - (A)	-		
B	TALOJA FACTORY			
1	Blind Organisation Of Iindia MT House, Malwani N C C , Gate No.7, Plot no 31 , Mlad (W), Mumbai-400095 (Registration No DIT (E)/MC/80G/1651/2009-10), PAN No AATB5110C			
2	Param Shantidham Vrindhashram Taloja MIDC , Opposite -Tecnova Co, Post - Koyalnawele, Taluka-Panvel	30,000.00	TL-BP/2020060024	1-Jun-20
	PAN:- AAATP 3007C , DIT (E) /MC/80G/2930/2009-10	30,000.00	TL-BP/2020060024	1-Jun-20
	(Registration No 12962 Income Tax Act 1961 U/S 80G)	30,000.00	TL-BP/2020060024	1-Jun-20
		30,000.00	TL-BP/2020070032	1-Jul-20
		30,000.00	TL-BP/2020080045	3-Aug-20
		30,000.00	TL-BP/2020090065	7-Sep-20
3	Chif Ministers Relief Fund COVID 19	10,00,000.00	TL-BP/2020040019	8-Apr-20
4	Distribute of 100 food packets in Pendhar village - (Maharashtra Traders)	30,000.00	TL-BP/2020070057	3-Jul-20
5	Distribute of Food(Rice/Sugar) in Covid -19 affected area (D-Mart)	59,900.00	PV-TAL/2020050032	20-May-20
6	Distributed of Food packet (450*Pkt *13 Days from 08.04.20-20.04.20) to migrant labours at Ghot Village (lock down Covid -19) thru Saileela Hospitality service	3,07,126.00	PV-TAL/2020050119	30-May-20
7	Utkarsh Global Foundation Utkarsh Global Foundation (formerly known as Utkarsh Star Mitra Manda) Address: 1107, Mahatma Phule Chowk, Rahul Nagar, Mulund Colony, Mulund West, Mumbai, Maharashtra 400082	5,00,000.00	TL-BP/2020050042	8-May-20
8	QMAX TECHNO CONSULTANTS PVT. LTD. Consultancy services for planning & designing of IGPL junction at MIDC Taloja	50,000.00	PV-TAL/2020070011	7-Jul-20
9	PRABODHAN PRAKSHAN P LTD (Appeal received from Regional officer, MIDC)	1,00,000.00	TL-BP/2020070369	23-Jul-20
	Total - (B)	22,27,026.00		
	GRAND TOTAL	22,27,026.00		

ANNEXURE - XVIII

I G PETROCHEMICALS LIMITED

DETAILS OF EXPENDITURE ON ENVIRONMENT SOCIAL RESPONSIBILITY (PA-4)

PERIOD 01.04.2019 TO 31.03.2021 [Sep-20]

(ENVIRONMENT SOCIAL RESPONSIBILITY-11200011)

SR. NO.	PAID TO	AMOUNT	Voucher No.	Voucher Date	Status
1	**TALOJA FACTORY** **Maintenance of Trees (By K D Patil)** (At Koyanavele/ghotcamp,Bhoirwada Road, Nitlas Village & FG Glass MIDC Road Divider)				
	(Apr -2020-Water supply Thru Water Tanker)	47,200.00	PV-TAL/2020050020	18-May-20	
	(May -2020 -Water supply Thru Water Tanker)	47,200.00	PV-TAL-PA4/202007002	14-Jul-20	
	(June -2020 Water supply Thru Water Tanker)	47,200.00	PV-TAL-PA4/202007003	14-Jul-20	
	(July -2020Water supply Thru Water Tanker)	28,600.00	PV-TAL-PA4/202009025	30-Sep-20	
	Total -	1,70,200.00			

F.No. J-11011/73/2016-IA-II (I)
Government of India
Ministry of Environment, Forest & Climate Change
IA-II Division

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi -3
Dated: 20th February, 2018

To

M/s I G Petrochemicals Ltd,
Plot No. T-2, MIDC Taloja Industrial area,
Tehsil Panvel,
District **Raigad** – 410 208 (Maharashtra)

Sub: Expansion of Petrochemical and Synthetic Organic chemicals manufacturing unit by M/s I G Petrochemicals Ltd at Plot No. T-2, MIDC Taloja, Tehsil Panvel, District Raigad (Maharashtra) - Amendment in EC - reg.

Sir,

This refers to your online proposal No. IA/MH/IND2/50347/2016 dated 4th September, 2017 for amendment in the environmental clearance granted by the Ministry vide letter dated 18th July, 2017 for the above project 'Expansion of Petrochemical and Synthetic Organic Chemicals manufacturing unit' of M/s I G Petrochemicals Ltd in an area of 113,282 sqm at Plot No. T-2, MIDC Taloja, Tehsil Panvel, District Raigad (Maharashtra).

2. The proposal was considered by the Expert Appraisal Committee (Industry-2) in the Ministry in its 30th meeting held on 2-3 November, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under: -

(i) The project was granted environmental clearance vide letter No. J-11011/73/2016-IA-II (I) dated 18th July, 2017. Amendment is required in para 4 and specific conditions (ii) & (iv) stipulated therein, with the details as below: -

Para/Item	As per the EC	Amendment requested
4	*Under Proposed Additional Capacities of Products* Benzoic acid (BA) Capacity 500 TPA	Benzoic acid (BA) Capacity Revision to 750 TPA
Specific condition (ii)	At least 5% of the total project cost should be earmarked towards ESC...	ESC norm should be amended to 1.5% of the total project cost.
Specific condition (iv)	The unit shall adhere to Zero Liquid Discharge(ZLD)	The effluent from new expansion project will be totally recycled and part of the existing effluent will also be recycled. The expected net discharge to CETP will reduce to 220 m^3/day

3. The EAC has recommended for the proposed amendments in the environmental clearance dated 18th July, 2017, with the details as under:

(a) In para 4, the additional capacity of Benzoic Acid may be revised as *'750 TPA'* in place of 500 TPA.

(b) Specific Conditions (ii) & (iv) to be replaced with, and now read as under: -

'(ii) At least 2.5% of the total cost of the project shall be earmarked toward the Enterprise Social Commitment (ESC).....'

'(iv) The effluent generation of 174 cum/day due to the proposed expansion shall be completely recycled after treatment. Also, part of the treated effluent of 686 cum/day shall also be recycled, resulting in net discharge to the CETP as 220 cum/day'.

4. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 18th July, 2017 for the project 'Expansion of Petrochemical and Synthetic Organic Chemicals manufacturing unit' of M/s I G Petrochemicals Ltd at Plot No. T-2, MIDC Taloja, Tehsil Panvel, District Raigad (Maharashtra), as stated in para 3 above.

5. All other terms and conditions stipulated in the environmental clearance dated 18th July, 2017 shall remain unchanged.

SK
20/2/2018

(S. K. Srivastava)
Scientist E

Copy to: -

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, **Mumbai** - 400 032 (Maharashtra)
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), **Nagpur** (Maharashtra)

ANNIXURE - XX

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (R57)
No:- Format1.0/CAC/UAN No.0000081902/CO -2003001032

Date: 16/03/2020

To,
M/s I G Petrochemicals Ltd.,
Plot Nos. T-1 & T-2, Taloja Industrial Area,
MIDC Taloja, Tal. Panvel, Dist. Raigad - 410 208.

Sub: **Grant of 1st Consent to Operate for expansion (part) and amalgamation with existing Consent to Operate.**

Ref:
1. Environment Clearance accorded by MoEF&CC, GoI vide F.No. J-11011/73/2016-IA-II(I) dtd. 18/07/2017.
2. Consent to Establish accorded by Board vide No. Format 1.0/BO/CAC-Cell/UAN No. 0000036672/2nd CAC-1808000654 dtd. 16/08/2018.
3. Consent to Operate renewal accorded by Board vide No. Format 1.0/BO/CAC-Cell/UAN No. 0000076454/CO-1911000126 dtd. 02/11/2019.
4. Minutes of Consent Appraisal Committee meeting held on 30 & 31/01/2020.

Your application No.MPCB-CONSENT-0000081902 Dated 24.10.2019

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to operate is granted for a period up to 31/08/2021**
2. **The capital investment of the project is Rs.1132.18 Crs. (As per undertaking submitted by pp Existing-Rs. 826.93 Crs + Expansion/Increase in C.I. - Rs. 305.25 Crs)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	MALEIC ANHYDRIDE	7660	MT/A
2	PHTHALIC ANHYDRIDE	222110	MT/A
3	BENZOIC ACID	1500	MT/A
4	Power (Transmitted to Grid)	2.5	MW

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	791	As per Schedule-I	Recycle treated effluent into process, cooling tower make up, firefighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP
2.	Domestic effluent	36	As per Schedule-I	As above

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1	Boiler (3 Nos.)	1	As per Schedule -II
2	S-2	Hot Oil Heaters (2 Nos.)	1	As per Schedule -II
3	S-3 to S-10	Process Vents (8 Nos.)	1	As per Schedule -II
4	S-11	D.G. Set (2000 KVA)	1	As per Schedule -II
5	S-12	Hot Oil Heater/Thermal Oxidizer(TO)	1	As per Schedule -II
6	S-13	Process Scrubber	1	As per Schedule -II
7	S-14	PA De-Dusting filter	1	As per Schedule -II
8	S-15	D.G. Set (2500 KVA)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Debris during maintenance activities like insulation/packing material/scrap iron etc.	8.5	MT/M	NA	Sale to Auth. Party/ CHWTSDF
2	Biological sludge from waste water treatment	35	MT/M	NA	Used as manure for gardening

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	1.2 Tarry residues and still bottoms from distillation	5467.8	MT/A	Incineration	Used as fuel in oil heater/thermal oxidizer
2	1.4 Organic residues	48	MT/A	Incineration	CHWTSDF
3	1.6 Spent catalyst and molecular sieves	90	MT/A	Incineration	Sent back to Manufacturer/ CHWTSDF
4	5.1 Used or spent oil	45	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
5	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1240	Nos./Y	Reuse/ Recycle	Washed & reuse
6	35.3 Chemical sludge from waste water treatment	18	MT/A	Secured Landfill	CHWTSDF
7	37.2 Ash from incinerator and flue gas cleaning residue	9.5	MT/A	Secured Landfill	CHWTSDF
8	Bio-Medical Waste	12	Kg/M	Incineration	CBMWTSDF
9	37.3 Concentration or evaporation residues	3000	MT/A	Secured Landfill	CHWTSDF
10	36.2 Spent carbon or filter medium	93.7	MT/A	Incineration	CHWTSDF
11	15.2 Discarded asbestos	43	MT/A	Secured Landfill	CHWTSDF
12	Sodium Sulphate	900	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor/ CHWTSDF
13	Phthalic Acid	800	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor/ CHWTSDF
14	Mono Ester Salts	3000	MT/A	Recycle	Sale to Auth. Party/ Recycler/ Re-processor/ CHWTSDF
15	37.1 Sludge from wet scrubbers	5	MT/A	Secured Landfill	CHWTSDF
16	Discarded Bags used for Hazardous Chemicals	2.5	MT/A	Incineration	CHWTSDF

8. **Conditions under Batteries (Management & Handling) Rules, 2001:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	Battery Waste	100.00	Nos./Y	Sent back to Manufacturer

Specific Conditions for used Batteries:

i. The applicant shall ensure that used batteries are not disposed of in any manner other than by depositing with the authorized dealer/ manufacturer/ registered recycler/ importer/ re-conditioner or at the designated collection center.

ii. The applicant shall file half-yearly return in Form VIII to the M.P.C. Board.

iii. Bulk consumers to their user units may auction used batteries to registered recyclers only.

9. **Conditions under Plastic Waste Management Rules, 2016 (Notification dtd. 18/03/2016):**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	Plastic Waste	500.00	Kg/M	Sale to Auth. Party/ Recycler

10. **Conditions under E-Waste Management:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	IT/ Telecom, Electrical, Electronics etc.	600.00	Kg/M	Sale to Auth. Party/ Recycler

11 The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.

12 This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

13 Industry shall operate ETP/ APCS to achieve Consented standards.

14 Industry shall recycle treated effluent generated from expansion and reduce existing discharge of treated effluent to CETP from 686 CMD to 220 CMD. Industry shall recycle 607 CMD treated effluent into process, cooling tower make up, firefighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP for further treatment & disposal.

15 Industry shall ensure connectivity and transmission of online to MPCB and CPCB Servers.

16 The applicant shall ensure disposal of by-product to the Actual user having permissions under Rule 9 of Hazardous & Other Wastes (M & TM) Rules, 2016.

17 Industry shall use distillation residue of Phthalic Anhydride and Maleic Anhydride as fuel in heater as permitted by MoEF&CC vide F. No. 23/47/2017-HSM dtd. 19/09/2017.

18 Industry shall comply with the conditions of Environment Clearance accorded by MoEF&CC, GoI vide F.No. J-11011/73/2016-IA-II(I) dtd. 18/07/2017.

19 This consent is issued with overriding effect on earlier Consent to Operate granted by the Board vide no. Consent No. Format 1.0/BO/CAC-Cell/UAN No. 0000076454/CO-1911000126 dtd. 02/11/2019.

For and on behalf of the
Maharashtra Pollution Control Board.

(E. Ravendiran IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1221000.00	TXN1910001765	30/10/2019	Online Payment

Balance amount of Rs. 12,91,418/- (Previous - Rs. 9,86,168/- + Existing - Rs. 3,05,250/-) will be considered at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Taloja
   - They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB,Sion, Mumbai
3. CC-CAC Desk- for record & website updating purpose

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1) **A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity of 709.00 CMD consisting of Primary, Secondary, Tertiary followed by UF, 2 stage RO, 4 Effect MEE & ATFD for the treatment of 791.00 CMD industrial effluent**

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Limiting concentration not to exceed in mg/l, except for pH
1	pH	5.5-9.0
2	Oil & Grease	10 mg/l
3	BOD	100 mg/l
4	COD	250 mg/l
5	Suspended Solids	100 mg/l
6	Chloride	600 mg/l
7	Sulphate	1000 mg/l
8	TDS	2100 mg/l
9	TAN	50 mg/l

C] Industry shall recycle 607 CMD treated effluent into process, cooling tower make up, firefighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP for further treatment & disposal. In no any case, effluent shall find its way outside the factory premises directly or indirectly.

2) **A] As per your application, you have provided septic tank and soak pit for the treatment of 36.00 CMD sewage.**

B] Overflow of Soak Pit is taken into Aeration tank of Effluent Treatment Plant (ETP) for further treatment & disposal.

3) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:**

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	4776.00
2.	Domestic purpose	44.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	697.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Grandening	10

4) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters, and other provisions as contained in the said act:**
5) **Prior permission shall be obtained from CGWA / irrigation department if ground Water/surface water is being used for industrial/Domestic purpose.**
6) **The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 or through NABL accredited laboratories.**

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1) **As per your application, you have provided the Air pollution control (APC) system and erected following stack(s) and observe the following fuel pattern-**

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO_2 Kg/day
S-1	Boilers (3 Nos.)	Stack	55	FO	27 MT/Day	4.50	2430.00
S-2	Hot Oil Heaters (2 Nos.)	Stack	31	FO (4 MT/D) + Distillation Residue (7 MT/D)	11 MT/Day	4.50	360.00
S-3 to S-5	Process Vents (3 Nos.)	Scrubber	50	--	--	--	--
S-6 to S-8	PA De-Dusting filter (3 Nos.)	Wet Scrubber	12	--	--	--	--
S-9	MA Bagging	Wet Scrubber	30	--	--	--	--
S-10	MA Flaker	Bag Filter	30	--	--	--	--
S-11	D.G. Set (2000 KVA)	Acoustic Enclosure/ Stack	15	HSD	8.3 MT/Day	1.00	166.00
S-12	Hot Oil Heater/Thermal Oxidizer(TO)	Wet Scrubber	31	HSD (2.5 MT/D) + Distillation Residue (4.2 MT/D)	6.7 MT/Day	1.00	50.00
S-13	Process Vent	Wet Scrubber	50	--	--	--	--
S-14	PA De-Dusting filter	Bag Filter	12	--	--	--	--
S-15	D.G. Set (2500 KVA)	Acoustic Enclosure/ Stack	30	HSD	380 Kg/Hr	1.00	182.40

2) **The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.**

3) **The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:**

Sr No.	Parameters	Limiting Concentration not to exceed	
1	Total Particulate matter	Not to exceed	150 mg/Nm3
2	NOx (Process)	Not to exceed	50 ppm
3	Acid Mist	Not to exceed	35 mg/Nm3

A. Emission from Chimney /stack

Sr No.	Parameters	Fuel Type	Limiting Concentration not to exceed
1	Sulphur Di Oxide (SO2)	Liquid	850
2	Oxides of Nitrogen (NOx)	Liquid	350
3	Particulate Matter	Liquid	50
4	Carbon Monoxide (CO)	Liquid	150

B. Process Emission (specific from Chimney /stack :

Sr No.	Parameters	Source	Limiting Concentration not to exceed
1	Organic Particulate	PA, MA and TDI Plants	25

C. Load Based Standards :

Sr No.	Parameters	Source	Quantum limit in gm/hour for New/ Expansion Plants (gm/hr)
1	Organic Particulate	Phthalic anhydride (PA), Maleic anhydride (MA), Toluene Di-isocyanate (TDI) plants. process emission	100

4) Storage of Volatile Liquids : General Petroleum/Petrochem Products

1) Storage tanks with capacity between 4 to 75m3 and total vapour Pressure (TVP) of more than 10 kpa should have Fixed Roof Tank (FRT) with pressure valve vent.
2) Storage tank with the capacity between 75 to 500 m3 and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Root Tank (IFRT) or External Floating Root Tank (EFRT) or Fixed Roof Tank with vapour control or vapour balancing system.
3) Storage tanks with the capacity of more than 500 m3 and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Roof Tank or External Floating Roof Tank or Fixed Roof Tank with vapour control system.
4) The tanks with the capacity of more than 75 m3 and total vapour Pressure (TVP) of more than 76 kpa should have Fixed Root Tank with vapour control system.
5) Requirement for seals in Floating Roof Tanks:

i) a) IFRT and EFRT shall be provided with double seals with minimum vapour recovery of 96%.

b) Primary seal shall be liquid or shoe mounted for EFRT and vapour mounted for IFRT. Maximum seal gap width will be 4 cm and maximum gap area will be 200 cm2/m of tank diameter.

c) Secondary seal shall be rim mounted. Maximum seal gap width will be 1.3 cm and maximum gap area will be 20 cm2/m of tank diameter.

d) Material of seal and construction shall ensure high performance and durability

ii) Fixed Roof Tanks shall have vapor control efficiency of 95% and vapour balancing efficiency of 90%

iii) Inspection and maintenance of storage tanks shall be carried out under strict control. For the inspection, API RP 575 may be adopted, In-service inspection with regard seal gap should be carried out once in every six months and repair to be implemented in short time. In future, possibility of on-stream repair of both seals shall be examined.

Iv) Storage tanks shall be painted with white colour shade, except for derogation of visually sensitive area.

5) Storage of Benzone, VCM and ACN

i. FRT with vapour for inceneration with 99.9% of removal efficiency for volatile organic compounds (VOCs) shall be provided, or

ii. IFRT/EFRT with double seals, emissio-reducing roof fitting and fitted with fixed roof with vapour removal efficiency of atleast 99% shall be provided, or

iii. Internal floating roof and nitrogen blanketing in between fixed and floating roofs shall be provided.

6)

Emission control for Road tank truck/Rail tank wagon loading		
Loading of Volatile Products	Gasoline and Naphtha: (i) VOC reduction, %. (ii) Emission, gm/m3	(i) 99.50 (ii) 5.00
	Benzene: (i) VOC reduction, % (ii) Emission, mg/m3	(i) 99.99 (ii) 20.00
	Toluene/Xylene: (i) VOC reduction, % (ii) Emission, mg/m3	(i) 99.98 ii) 150.00

Note:
(i) It shall be applicable for Gasoline, Naphtha, Benzene, Toluene and Xylene loading.
(ii) Road tank Truck shall have Bottom loading and Roll tank wagon shall have Top submerged loading.
(iii) Annual leak testing for vapour collection shall be done.

7) VOC Emission Controls: -

a) The Industry shall take all operational practices & implement control measures to limit VOC emission during breathing (tank evaporative emission) and during filling of storage tanks as mandated under storage tank provision of GSR 186 (E) Dt.18.03.2008.

b) Industry shall keep record indicating type of chemical stored in different tanks & submit the same to MPCB every month.

c) The tanks shall be maintained as per the API RP 575 Standards and provided with modern instrumentation to ensure that there shall be no leakage or spillage during handling.

d) The industry shall have preventive maintenance plan and keep records of preventative maintenance carried out. For IFR Tanks, this shall include regular inspection of seals, seal gap, condition of various sleeves, jackets etc.

e) The industry shall monitor vapor pressure in the tanks. The Industry shall spray water on tanks shells by water sprinklers installed, provided tank vapor pressure exceeds set norms. Industry shall maintain records of operation of fire water sprinkler & submit the same to MPCB every month.

f) The industry shall provide adequate arrangement for capturing VOC emission during tanker filling. This shall include providing compatible lids (with suitable openings for filling pipe and fume extraction vent) to close the manholes on the tanker top so that no VOC emissions leaks into the environment. Alternative bottom loading of tankers with leak proof vapour collection facilities at the manholes will be provided. Compatible loading arms with level gauge, metered flow to tanker to ensure control filling to be provided. Vapour capturing hoses shall be connected to central header and shall have extra provision for collecting VOC emissions from maintenance activities and during pigging of pipelines.

g) The collection header shall be connected to Air pollution control system consisting of brine chiller followed by activated carbon/charcoal to meet slandered as given in DSR -186 (E) Dt.18.03.2008

h) The industry shall explore possibility of collecting vapours from open manholes during tank washing and diverting the same to the air pollution control system provided.

i) Industry shall ensure that the nitrogen /air used during pigging operations shall be diverted to the air pollution control system provided.

j) The air blown from manifold to tanker filling point shall be diverted to air pollution control system provided.

k) High level alarm synchronized with cut off capacity shall be provided to the storage tanks.

l) The internal roads shall b cement concrete and shall be maintained with adequate green belt.

m) The industry shall monitor ambient air quality on a monthly basis and the emission of Volatile Organic Compound particularly Toluene, Xylene and non-methane Hydro Carbon from MoEF approved laboratory.

n) The industry shall not cause any nuisance in surrounding area.

8) Industry shall provide Air Pollution Control System for Paint Booth (Water contain) and leak detection system with alarm.

9) Industry shall install 24*7 online continuous emission monitoring system at process stack to monitor stack emissions as per CPCB guidelines and it's connectivity to CPCB & MPCB Servers . PP shall Calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act , 1986 or NABL accredited laboratories.

10) Project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

11) National Emissions standards for Organic chemicals manufacturing Industry Issued by MOEFCC vide G.S.R. No 608 E DATED 21 July 2010 and amended from time to time shall be followed.

12) The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R. 595 (E) dated 9th November, 2012 as amended time to time be followed.

13) The National Emission Standards for Petrochem (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2O & Amalgamation	2500000	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	31.08.2021	31.12.2021

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV
General Conditions:

1. The waste generator shall.-
   a) take steps to minimize generation of plastic waste and segregate plastic waste at source in accordance with the Solid Waste Management Rules, 2016 or as amended from time to time.
   b) not litter the plastic waste and ensure segregated storage of waste at source and handover segregated waste to urban local body or gram panchayat or agencies appointed by them or registered waste pickers', registered recyclers or waste collection agencies;
2. All institutional generators of plastic waste, shall segregate and store the waste generated by them in accordance with the Solid Waste Management Rules, 2016 amendment from time to time and handover segregated wastes to authorized waste processing or disposal facilities or deposition centers either on its own or through the authorized waste collection agency.
3. All waste generators shall pay such user fee or charge as may be specified in the byelaws of the local bodies for plastic waste management such as waste collection or operation of the facility thereof, etc.;
4. Every person responsible for organizing an event in open space, which involves service of food stuff in plastic or multilayered packaging shall segregate and manage the waste generated during such events in accordance with the Solid Waste Management Rules, 2016 amendment from time to time.
5. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler
6. Bulk consumers of electrical and electronic equipment listed in Schedule I shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
7. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under;
8. Bulk consumers of electrical and electronic equipment listed in Schedule I shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.
9. The Energy source for lighting purpose shall preferably be LED based
10. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
11. Conditions for D.G. Set
    a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
    b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.

d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.

e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.

f) D.G. Set shall be operated only in case of power failure.

g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.

12. The applicant shall maintain good housekeeping.
13. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
14. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
15. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
16. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
17. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
18. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
19. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
20. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
21. The PP shall provide personal protection equipment as per norms of Factory Act
22. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
23. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
24. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.

25. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
26. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
27. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
28. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
29. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
30. The industry should not cause any nuisance in surrounding area.
31. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
32. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
33. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
34. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
35. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
36. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
37. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.

38. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
39. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
40. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
41. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

ANNEXURE - XXI

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number
MPCB-ENVIRONMENT_STATEMENT-0000029455

Submitted Date
30-09-2020

Company Information

Company Name
I. G. Petrochemicals Ltd.

Application UAN number
30425

Address
Plot No.T-2, Taloja Industrial Area, MIDC,
Taloja, Dist. Raigad - 410208

Plot no
T- 2

Taluka
Taloja

Village
Taloja Industial Area, Raigad

Capital Investment (In lakhs)
79536.00

Scale
Large Scale Industry (LSI)

City
Taloja

Pincode
410208

Person Name
Mr. AJIT BAGADE

Designation
PRESIDENT - OPERATIONS

Telephone Number
+91226847 9100

Fax Number
+912239289148

Email
abagade@igpetro.com

Region
SRO-Taloja

Industry Category
Red

Industry Type
R57 Petrochemicals Manufacturing (including processing of Emulsions of oil and water)

Last Environmental statement submitted online
yes

Consent Number
Formate 1.0/BO/CAC-Cell/UAN No 30425/2nd CAC/1806000105

Consent Issue Date
02/06/2018

Consent Valid Upto
31/08/2021

Product Information

Product Name	*Consent Quantity*	*Actual Quantity*	*UOM*
Phthalic Anhydride	169110	152021.675	MT/A
Banzoic Acid	1000	728.96	MT/A
Maleic Anhydride	6500	4459.5	MT/A

By-product Information

By Product Name	*Consent Quantity*	*Actual Quantity*	*UOM*
Not Applicable	0	0	MT/A

1) Water Consumption in m3/day

Water Consumption for	*Consent Quantity in m3/day*	*Actual Quantity in m3/day*
Process	655	521.17
Cooling	3552	1939.06

Domestic	18	10.65
All others	10	5.94
Total	4235	2476.82

1) Effluent Generation in CMD / MLD

Particulars	***Consent Quantity***	***Actual Quantity***	***UOM***
Daily Quantity of trade effluent from the factory	670	318.82	CMD
Daily Quantity of sewage from the factory	16	10.65	CMD
Daily quantity of treated effluent	686	329.47	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	***During the Previous financial Year***	***During the current Financial year***	***UOM***
Phthalic Anhydride	1.449	1.251	CMD
Benzoic Acid	0.000	0.000	CMD
Maleic Anhydride	0.000	0.000	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	***During the Previous financial Year***	***During the current Financial year***	***UOM***
o-Xylene	0.918	0.916	Ton/Ton

4) Fuel Consumption

Fuel Name	***Consent quantity***	***Actual Quantity***	***UOM***
FO (Furnace Oil)	11315	5562.43	MT/A
HSD(High Speed Diesel)	3029.5	684.52	MT/A

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	***Quantity of Pollutants discharged (kL/day)***	***Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour***	***Percentage of variation from prescribed standards with reasons***		
	Quantity	***Concentration***	***%variation***	***Standard***	***Reason***
pH	-	7.44	NA	6.0 - 8.5	NA
Suspended Solids	15.48	46.16	NA	100 mg/l	NA
BOD	12.57	37.5	NA	100 mg/l	NA
COD	37.03	110.41	NA	250 mg/l	NA
Oil & Grease	0.27	0.80	NA	10 mg/l	NA
Total Dissolved Solid	423.73	1263.33	NA	2100 mg/l	NA
Chloride	110.82	330.41	NA	600 mg/l	NA
Sulphate	115.51	344.4	NA	1000 mg/l	NA
TAN	0.54	1.6	NA	50 mg/l	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
Stack - I (Boiler)- TPM	0.60	76.72	NA	150 Mg/ Nm3	NA
Stack - I (Boiler)- SO2	218.17	571.07	NA	900 Kg/day	NA
Stack - I (Boiler) - NOX	21.12	39.73	NA	50 ppm	NA
Stack - I (Boiler) - CO	0.51	0.59	NA	NA	NA
Stack - II- PA I Heater PM	0.19	104.65	NA	150 Mg/Nm3	NA
Stack - II- PA I Heater SO2	37.57	95.41	NA	360 Kg/ day	NA
Stack - II- PA I Heater NOX	30.69	35.15	NA	50 Mg/ Nm3	NA
Stack - II- PA I Heater CO	0.62	0.71	NA	NA	NA
Stack - III- PA II Heater PM	0.10	67.73	NA	150 ppm	NA
Stack - III- PA II Heater SO2	36.47	91.32	NA	360 Kg/day	NA
Stack - III- PA II Heater NOX	18.09	34.03	NA	50 ppm	NA
Stack - III- PA II Heater CO	0.68	0.78	NA	NA	NA
Stack - IV- PA I Scrubber VOC	0.14	0.62	NA	270 ppm	NA
Stack - IV- PA I Scrubber TPM	0.95	32.88	NA	150 mg/Nm3	NA
Stack - IV- PA I Scrubber SO2	8.26	21.62	NA	50 ppm	NA
Stack - IV- PA I Scrubber NOX	16.93	31.85	NA	50 ppm	NA
Stack - V- PA II Scrubber VOC	0.11	0.07	NA	270 ppm	NA
Stack - V- PA II Scrubber PM	1.12	34.78	NA	150 ppm	NA
Stack - V- PA II Scrubber SO2	13.44	25.28	NA	50 ppm	NA
Stack - V- PA II Scrubber NOX	11.63	30.43	NA	50 ppm	NA
Stack - VI- PA III Scrubber VOC	0.03	8.00	NA	270 ppm	NA
Stack - VI- PA III Scrubber PM	0.66	34.78	NA	150 ppm	NA
Stack - VI- PA III Scrubber SO2	8.57	22.43	NA	50 ppm	NA
Stack - VI- PA III Scrubber NOX	15.71	29.56	NA	50 ppm	NA
Stack - VII- DG- PM	0.04	69.33	NA	50 ppm	NA
Stack - VII- DG- SO2	14.53	14.53	NA	166 Kg/day	NA
Stack - VII- DG- NOX	17.29	32.53	NA	50 ppm	NA
Stack - VII- DG- CO	0.83	0.95	NA	NA	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
1.2 Tarry residues and still bottoms from distillation	3255.671	2717.771	MT/A
1.6 Spent catalyst and molecular sieves	22.91	23.34	MT/A
5.1 Used or spent oil	7.7	5.2	MT/A
15.2 Discarded asbestos	16.58	3.05	MT/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	140	0	Nos./Y

36.2 Spent carbon or filter medium	1.91	2.549	MT/A
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	2.8	0.73	MT/A
35.3 Chemical sludge from waste water treatment	16.29	16.871	MT/A
37.2 Ash from incinerator and flue gas cleaning residue	1.9	0	MT/A
1.4 Organic residues	82.76	107.03	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	16.29	16.871	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other debris like insulation, packaging materials etc.	0	70.26	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Biological Sludge from ETP - Solid (Disposal- CHWTSDF)	173.8	58.42	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
1.2 Tarry residues and still bottoms from distillation	3355.671	2717.771	MT/A

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
1.2 Tarry residues and still bottoms from distillation	2717.771	MT/A	Viscous (Disposal - Use as fuel heater)
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0.73	MT/A	Solid (Disposal - Sent back to manufacturer)
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0	Nos./Y	Solid (Disposal-Sent to CHWTSDF)
35.3 Chemical sludge from waste water treatment	16.871	MT/A	Solid (Disposal-Sent to CHWTSDF)
36.2 Spent carbon or filter medium	2.459	MT/A	Solid (Disposal-Washed & Reused)
37.2 Ash from incinerator and flue gas cleaning residue	0	MT/A	Solid (Disposal-Washed & Reused)
1.6 Spent catalyst and molecular sieves	23.34	MT/A	Semi Solid (Disposal- Sent to CHWTSDF)
5.1 Used or spent oil	5.2	MT/A	Liquid (Disposal - Sale CPCB / MPCB authorized parties
15.2 Discarded asbestos	3.05	MT/A	Solid (Disposal-Sent to CHWTSDF)
1.4 Organic residues	107.03	MT/A	Solid (Disposal-Sent to CHWTSDF)

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Biological Sludge from ETP	58.42	MT/A	Solid (Disposal- CHWTSDF) - Landfilling

Other debris like insulation, packaging materials etc.	70.26	MT/A	Solid (Disposal- CHWTSDF)

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Details of Power, water consumption & ETP etc.	0	0	0	797613	0	0

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Partial ZLD	Treatment of effluent. Less effluent will be discharged to CETP	3222

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	NA

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

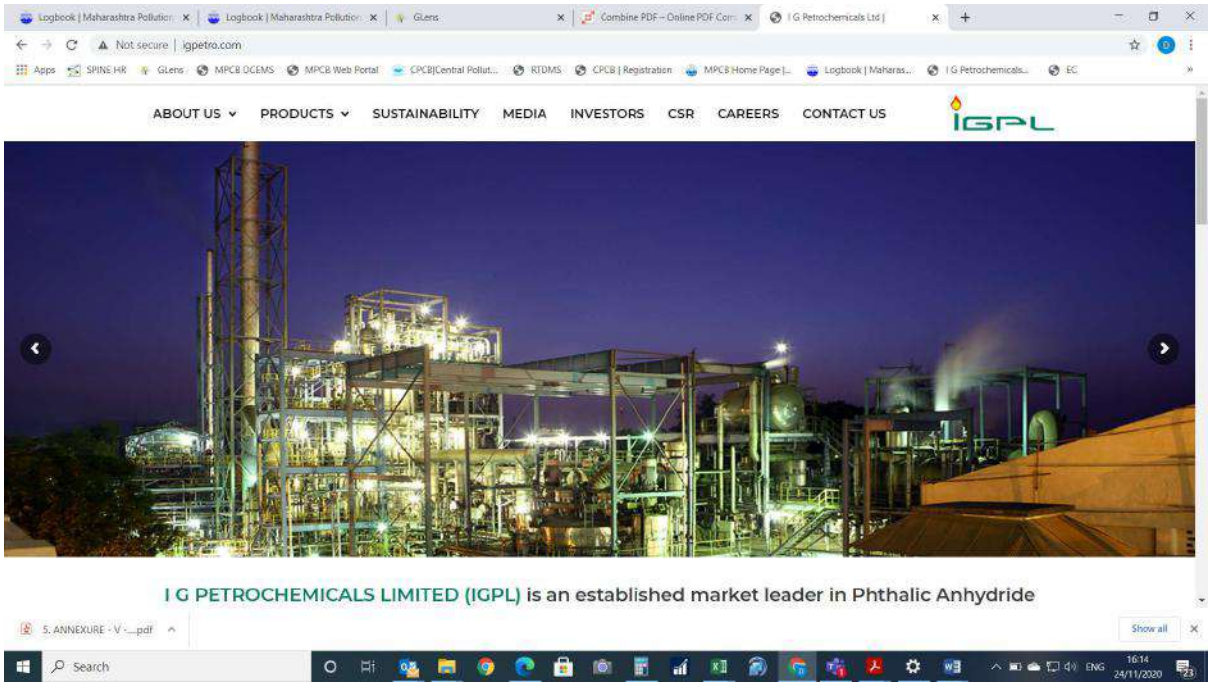
Consent to Operate granted for Phthalic Anhydride (169110 MT/A) & Benzoic Acid (1000 MT/A) Maleic Anhydride (6500 MT/A)

Name & Designation

Mr Ajit Bagade (President- Operations)

ANNEXURE – XXII

IGPL WEBSITE SNAPSHOT



- **ABOUT US**
- **PRODUCTS**
- **SUSTAINABILITY**
- **MEDIA**
- **INVESTORS**
- **CSR**
- **CAREERS**
- **CONTACT US**

Company Overview

I G Petrochemicals Ltd. (IGPL) is an established market leader in Phthalic Anhydride (PAN) with strong recognition and excellent plant facilities of international standards.

IGPL also produces Maleic Anhydride through wash water generated out of the production process of PAN. Maleic Anhydride is used in agro and food businesses. IGPL also manufactures Benzoic Acid (BA) as a by-product.

Our Capacity

Get started swiftly & easily by importing a demo of your choice in a single click. Over 30 high quality professionally designed pre-built website concepts to choose from. I G Petrochemicals Ltd. (IGPL) is equipped with one of the largest capacity at a single location, which will stand at 2,22,110 MTPA of Pthalic Anhydride, 8000 MTPA of Maleic Anyhdride and 1300 MTPA of Benzoic Acid and 8,400 MTPA of plasticizers, post expansion of PAN 4 plant. The Company has the ability to cater to local and international markets.

Our Inception

IGPL commenced production in the year 1992 with a view to become one of the leading players in the petrochemicals industry. Today, we are the largest producer of PAN in India. Our dynamic spirit to go beyond the normal realms of success and our relentless Will to be the market leader have been the hallmarks of our pursuit of excellence.

The plant is located at MIDC, Taloja in Raigad District, Maharashtra, India, 50 Km from Jawaharlal Nehru Port Trust (JNPT), Nhavasheva, Maharashtra, thus enabling us to provide unsurpassed customer service to versatile and diversified market since 1992.

Our Product

Phthalic Anhydride (PAN) is used in manufacturing plasticizers, which are most essential in making PVC products, shoe soles, cables, pipes and hoses, leather cloth, films for packaging and other products. It is also used to manufacture alkyd resins used in paints and in the production of unsaturated polyester resins for building materials, plastic products, textile industries and printing inks.

Being a “value driven” company, the values are a part of individual and collective objectives for continuous business excellence.

Strategic Location

Plant being close to the Port – Huge saving in freight cost. Proximity to the chemical belt of India.

Unique Position

Market Leader with over ~50% of the share in India.

Capacity Utilized

High capacity utilization with annual contract for its sales to Indian customers.

Recovery Process

Steam generated from processes is utilized efficiently.

Strong Clientele

Diversified product use in multiple industries with low customer concentration.

Quality Management Systems

The primary goal of IGPL is to achieve the highest standards of quality in our business unit’s practices and operations without compromise. Quality performance is one of the cornerstones of our Company’s culture and is considered a personal responsibility of all employees. IGPL is an ISO accredited Company in espect of the following standards –

– ISO 9001:2008 – Quality Management Systems

– ISO 14001:2004 – Environment Management System

Ensuring that we fully identify and conform to the needs of our customers. To fulfill and exceed customer needs and expectations by delivering a quality product in a

consistent and timely manner. Continuous improvement in our process. IGPL's management is fully committed to the Quality Policy through active participation in quality improvement activities.

Health, Safety and Environment Security

IGPL is committed to providing a safe and healthy workplace for all our Employees, Contractors Employees, visitors and member of Public. We are committed to compliance with any and all governmental agencies, regulations, industry best practices and use audits to measure, share and improve our Health and Safety programs.

To achieve this we shall :

- Eliminate or minimize Hazards and Risk to Health and Safety as far as practicable.
- Conduct frequent Audits, Risks Assessment and Mock Drill Etc. and implement suggestion given to improve work environment.
- Educate Employees for their general responsibility and other people towards Health and Safety while working in the plant.
- Provide appropriate Safety equipment and personnel protective equipment.
- Provide information, instruction and training to enable all Employees, Contract employees, Supervisors, Site Contractors and other interested parties to work safely.
- Health and Safety performance will be taken into account during career advancement, Annual report, Equipment's up gradation and selection or substitution of material.

Environmental Policy

We are in the business of manufacturing Phthalic Anhydride, Maelic Anydride and Benzoic Acid. We understand the profound influence of industrialization on environment and recognize the importance of restoring and maintaining the same.

In our effort to keep to our commitment for a pollution free environment, we shall strive to :

- Prevent and control pollution and maintain ecofriendly environment.

- Dispose off inevitable wastes in an environmentally friendly manner.
- Enhance environmental awareness amongst all our staff, workmen, suppliers, visitors and other interested parties.
- Continually improve our Environmental performance. Conserve key resources like Water, Energy, Fuel by optimizing their use. Maximize reuse/recycle wastes.
- We shall comply with all applicable environmental legislations and other requirements.

This policy shall be communicated to all the managers, staff, workmen, suppliers and regular visitors through display, training and personal interactions and shall be made available to all interested parties and public on demand.

LIVE OCEMS

- **ENVIRONMENTAL COMPLIANCES**
- **ENVIRONMENTAL CLEARANCES**
- **ENVIRONMENTAL AUDIT REPORT**
- Compliance December 2015 to May 2016
- Compliance June 2016 to November 2016
- Compliance December 2016 to May 2017
- Compliance April 2017 to September 2017
- Compliance October 2017 to March 2018
- Compliance April 2018 to September 2018
- Compliance October 2018 to March 2019
- Compliance October 2019 to March 2020

Investors

- Annual Report
- Business Reports
- Corporate Governance
- Investor Information
- Corporate Announcement
- Subsidiaries Financial Statements

Quick Links

- About Us
- Products

- Sustainability
- Media
- CSR
- Careers

Registered Office

T-10, 3rd Floor, Jairam Complex, Mala, Neugi Nagar, Panaji, Goa – 403 001

0832 2970973

Corporate Office

401-404, Raheja Centre, 214 , Nariman Point, Mumbai – 400021

Fax No : 022-22040747 / 22836392

+91 22 4058 6100

igpl@igpetro.com

CIN : L51496GA1988PLC000915

ANNEXURE-XXIII

I G PETROCHEMICALS LIMITED

Ref : IGPL/JKS/2018 **Date : 08.10.2018**

Panvel Municipal Corporation,
Panvel,
Dist. Raigad : 410206
Maharashtra

Dear Sir,

We are enclosing herewith copy of Environmental Clearance issued vide F.No.J-11011/73/2016-IA-II (I) dtd. 18.07.2017 by Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India, New Delhi alongwith amendment to the Environmental Clearance issued Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India, New Delhi dtd. 20.02.2018 for your kind information and records.

Please acknowledge having received the same.

Thanking you,

Yours faithfully,
For I G PETROCHEMICALS LIMITED

(JK SABOO)
EXECUTIVE DIRECTOR

Encl : As above

9/10/18
लेखनिक
आवक-जावक
पनवेल शहर महानगरपालिका
पनवेल - रायगड.

Factory : Plot No.T-2, Taloja Industrial Area, MIDC, Taloja, Dist.: Raigad, Maharashtra - 410 208, India. Tel.: (91) 22-3928 9100 • Fax : (91) 22-2741 0192 • E-mail: taloja@igpetro.com • Website : http//www.igpetro.com
Corp. Office : 401-404, Raheja Centre, Free Press Journal Marg, 214, Nariman Point, Mumbai - 400 021. India. Tel.: (91) 22 - 3028 6100; Fax: (91) 22 - 2204 0747; E-mail: igpl@igpetro.com

ANNEXURE - XXIV

EXPANSION PROJECT PHOTOS

1) DISTILATION AREA – D 431 –

2) PA – IV – VIEW FROM NORTH-EAST SIDE –

3) THERMAL HEATER –

4) SITE PHOTOS –

ANNEXURE - XXV

ETP Upgradation Project Photos

NOV 2020

1) MEE PLANT

2) MCC PANEL ROOM

3) TRICKLING FILTER –

4) MULTI GRADE FILTER AND CARBON FILTER –

5) ULTRA FILTRATION UNIT –

6) RO – 1 –

7) RO – 2 –

8) DOSING PLATFORM & TRICKLING FILTER MCC –

9) UF & RO BUILDING

ANNEXURE - XXVI

TREE SURVIVAL REPORT PLANTED AT GHOT CAMP

All planted trees are survived and are in good condition.