I G PETROCHEMICALS LIMITED

Date: 1st Dec 2022

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-I-11013/14/2007-IA 11 (I) dated: 12th June, 2007
2) PA-II EC NO -)-11012/78/96-IA dated 20thTune 1997
3) PA-III & BENZOIC ACID EC NO-I-11011/994/2007/I A (11) I, Dated: 03.12.2009
4) PA-IV,MA-IV,BENZOIC ACID EXPANSION-PLASTICIZER EC NO I-1011/73/2016- IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018
5) MA-III EC NO -I-11011/986/2007-IA -11(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 2022 – Sept 2022. We hope the above is to your satisfaction.

Thanking You,
Yours faithfully

(AJIT BAGADE)
PRESIDENT OPERATIONS

I G PETROCHEMICALS LIMITED * TALOJA MIDC

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.

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Ref	**PA-I EXPANSION EC COMPLIANCE REPORT APR 2022 – SEPT 2022** **EC No. J-11013/14/2007-IAII (I) dated 12.06.2007.**
To	I G 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 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 2021-MARCH 2022 full year	**APR 2022-SEPT 2022 6 months**	
Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA PA IV 53000	222110 MT/A	200013.55 MT	106417.850 MT	• We are well within the prescribed limit of EC & Consent

	MTPA				
Benzoic Acid	1500 MT/A	1500 MT/A	884 MT	443.825 MT	
Maleic Anhydride	7660 MT/A	7660 MT/A	6352.375 MT	3587.250 MT	
Di Ethyl Phthalate	12600 MT/A	12600 MT/A	1139.056 MT	2357.874 MT	
Power (Exported to Grid)	2.5 MW	2.5 MW	NIL	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 2022 – Sept 2022 are enclosed under **ANNEXURE –II.** We have also provided online monitoring system for stack emissions and effluent which is linked directly with CPCB /MPCB servers. **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 2022 – Sept 2022 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 2022 – Sept 2022 period is enclosed as **ANNEXURE –IV**.
iv.	**There will be no increase in Storage tanks.**	There is no change in number of Storage Tanks.
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 2022 – Sept 2022 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. Photographs showing designated storage area for storage of raw material: O-xylene are enclosed as **ANNEXURE – VI.**
viii.	**Acoustic enclosure will be installed to limit**	Yes, Enclosures have been provided at various

	the noise levels below 85 dBA.	Noise Generating locations. Monitoring Reports for the period Apr 2022 – Sept 2022 are enclosed as **ANNEXURE – II**
ix.	**The company shall strictly follow all the relevant guidelines of CPCB given from time to time.**	Complied.
x.	**25% of the total land area will developed as green belt.**	Adequate green belt has been developed .
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 2022 -23 rainy season, we have recovered total of 6830 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.**	Regular medical check-ups of all the employees are conducted. 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. **ANNEXURE – VIII.**

B.	**General Conditions:**	
i.	**The project authority must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and State Government.**	Yes agreed. We have received Consent to Operate from Maharashtra Pollution Control Board vide no. Format 1.0/CAC/UAN No. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. Copy of same is enclosed as **ANNEXURE – XV.**
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.**	Agreed. 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 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 2022 – Sept 2022 period are enclosed as **ANNEXURE – II**
iv.	**Adequate number of influent and effluent**	We are regularly monitoring effluent quality

	quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.	through MoEF recognized laboratory. Effluent monitored at intermediate stages of ETP. Inlet / Outlet of ETP monitoring Reports for the period Apr 2022 – Sept 2022 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 2022 – Sept 2022 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 2022 – Sept 2022 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 and contract workers shall be carried as**	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 Company has well equipped Occupational

	per the Factories Act and records shall be maintained properly for at least 30-40 years.	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. **ANNEXURE – VIII.**
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 compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.**	Yes, we are regularly submitting six monthly compliance report to the ministry / SPCB / CPCB. Please refer **ANNEXURE – V** for last submitted six monthly compliance report.

xi.	**The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http;//envfor.nic.in. The advertisement should be made within 7 days from the date of issue of the clearance letter and copy of the same should be forwarded to the 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. The company will implement these conditions in a time bound manner.	Yes. Noted.

Ref	**PA-II EC COMPLIANCE REPORT APR 2022 – SEPT 2022** **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.**	Consent to Operate /Authorization from MPCB has been obtained. Format 1.0/CAC/UAN No. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. Copy of same is enclosed as **ANNEXURE – XV.**
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.**	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 14th Mar 2022.
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	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**

	by SPCB are more stringent than the EPA norms, the industry should follow the above. At no time the emission should go 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. Photographs 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	We have online emission and effluent monitoring system connected to CPCB and MPCB servers .Ref **ANNEXURE XVI** .

	statistical analysis and interpretation 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 respective units 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 880 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, 1989 should be prepared and approval from the competent authority should be obtained.	We have the onsite and off-site emergency plan which is submitted to DISH (factory inspectorate) .
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.	Adequate green belt has been developed within the plot.
xvii	Periodical medical checkup of the workers should be done and records maintained as a measure to provide occupational health service to the workers.	Regular medical check-ups of all the employees are conducted. 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 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. **ANNEXURE – VIII.**
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 up under the control of senior executive who will report directly to the Head of the Organization.	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.
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 2022 – SEPT 2022** **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 and effluent generation are within stipulated limits. **REFER ANNEX III** for water consumption and effluent generated during period Apr 2022 – Sept 2022. 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 880 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 for sampling port hole and monitoring is being done. DG sets are provided with stack height of 15 & 30 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 and bio sludge to the cement plants or**	Spent carbon is generated from ETP tertiary treatment process & DEP Plant, thus unsuitable for burning in cement plants. There is no Cement

	spent carbon should be incinerated.	plant in 500 km distance from our unit. Hence, we shall dispose this in CHWTSDF Taloja (As per CTO) 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 2021 – 2022 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. 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. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. **(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.**	Adequate green belt has been developed.
ix)	**Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.**	Regular medical check-ups of all the employees are conducted. 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. 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. **Please refer ANNEXURE – VIII.**
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. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. **(ANNEXURE - XV).** We shall abide by the conditions of the Consent /Authorization and other stipulations.
ii)	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alternations in the project proposal from those submitted to this \Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.**	Yes, agreed.
iii)	**At no time, the emissions shall exceed the prescribed limits. In the event of failure of pollution control system(s) adopted by the unit, the respective unit**	Yes, agreed.

	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 Online Continuous Environment 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 Ministry. All the recommendations made in respect of environmental**	Yes agreed.

	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 XVIII** for details
ix)	**The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.**	Company is undertaking various community welfare measure for improvement of the environment as under: Refer **ANNEX XVII & 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 – Consent to Operate copy attached. Format 1.0/CAC/UAN No. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. (**ANNEXURE - XV**).

7)	**The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory**	Yes, above condition is noted.
8)	**The Ministry reserves the right to stipulate additional conditions. If found necessary. The company is a time bound manner implements these conditions.**	Yes, above condition is noted.
9)	**Any appeal against this environmental clearance shall lie with the National Appellate Authority, if proffered within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.**	Yes, Noted.
10)	**The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of pollution) Act, 1981, The Environment Protection Act 1986, Hazardous Waste (Management & Handling) Rules, 2003/2008 and Public Liability Insurance Act, 1991 along with their amendments and rules.**	Yes, Noted.

Ref	**EC COMPLIANCE FOR THE PERIOD APR 2022 – SEPT 2022** **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 2020-MARCH 2021 full year	**Apr 2022 - Sept 2022 6 months**	
Maleic Anhydride	7660 TPA	7660 TPA	5381.35	3201.925	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 6830 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.	Adequate green belt has been developed.
vii.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	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 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. **ANNEXURE – VIII.**

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 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.	Agreed

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 2022 – Sept 2022 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. Consent To Operate / Authorization from MPCB has been obtained. Format 1.0/CAC/UAN No. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. Copy of same is enclosed as **ANNEXURE – XV.**
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 – XIII & 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 2022 – SEPT 2022** **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 (2021)
Phthalic Anhydride	PAI+PAII90000 MTPA PAI+PA IIEXP 26110 MTPA PAIII 53000 MTPA PA IV 53000 MTPA	**222110 MT/A**
Benzoic Acid	1750 MTPA	**1500 MT/A**
***Maleic Anhydride**	7660 MTPA	**7660 MTPA**
Di Ethyl Phthalate / Di Methyl Phthalate	12600 MTPA	**12600 MTPA**

Power (Exported to Grid)	2.5 MW	**2.5 MW**

*** 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. Also, we have planted 3000 no.s of trees near Nitlas village in Aug 2021. Total 5000 number of trees are planted. Survival report enclosed. Refer **ANNEXURE-XXVI.** MIDC has been allocated Plot No. OS – 44 to M/s I G Petrochemicals Ltd. For tree plantation & beatification where 2134 no.s of trees are planted.
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 MoEF & CC office memorandum F.No.22-65/2017-IA.III dated 1st May 2018, of the total cost of the project will be earmarked towards Enterprise Social Commitment. Sufficient budgetary provision will be made for health improvement, education, water and electricity supply etc. at nearby villages. Budgetary allocation made towards ESC /CER are 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 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.**	Regular medical check-ups of all the employees are conducted. 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 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. **ANNEXURE – VIII**
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-XV**) 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. Format 1.0/CAC/UAN No. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. Copy of same is enclosed as **ANNEXURE – XV.**
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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 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.**	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. 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 2022 – Sept 2022 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, we have recovered total of 6830 m^3 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 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**	Yes agreed. All Environmental Protection measures are incorporated as per documents submitted to ministry.

	relating to the project shall be implemented.	
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 forwarded to the concerned Regional Office of the Ministry.**	Complied- advertisement was placed in media on obtaining the Environmental clearance. Copy of Advertisement published in local newspaper is enclosed herewith as **ANNEXURE– X.**
xvii.	**The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of**	Yes, Agreed. Project is completed Phthalic, Maleic Anhydride and DEP/DMP.

	the project by the concerned authorities and the date of start of the project.	Consent to Operate /Authorization from MPCB is obtained. Format 1.0/CAC/UAN No. MPCB CONSENT - 0000115836/CR/2207000116 Dated: 02/07/2022, valid upto 31/08/2026. Copy of same is enclosed as **ANNEXURE – XV.**
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.

INDEX

ANNEXURE – XV	:	Copy of existing Consent to Operate
ANNEXURE-XVI	:	OCEMS Dashboard
ANNEXURE-XVII	:	CSR Details
ANNEXURE-XVIII	:	CER Budget & Expenditure
ANNEXURE-IXX	:	EC Amendment
ANNEXURE-XXI	:	Environmental Statement 2021 – 2022
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 Survival 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 Palleria)
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(AAJ) / AS(AAM)
5. PPS to JS(GB) / JS(JT)
6. WebSite, MoEF&CC
7. Guard File

ANNEXURE II

DRINKING WATER ANALYSIS

Drinking Water Analysis Report										
Sr. No	Location	Apr-22			May-22			June-22		
		04-04-2022			26-05-2022			10-06-2022		
		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
2	Canteen-2 (Contract Canteen)	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
3	PA Control room	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
4	Workshop	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
5	Instrumentation	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
6	Admin	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
7	Laboratory	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
8	MA Control Room	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
9	PA Bagging Section	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable

Drinking Water Analysis Report										
Sr. No	**Location**	**July-22**			**Aug-22**			**Sept-22**		
		21-07-22			**22-08-22**			**17-09-22**		
		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
2	Canteen-2 (Contract Canteen)	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
3	PA Control room	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
4	Workshop	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
5	Instrumentation	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
6	Admin	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
7	Laboratory	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
8	MA Control Room	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable
9	PA Bagging Section	Absent	Absent	Potable	Absent	Absent	Potable	Absent	Absent	Potable

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

WORK ROOM AIR MONITORING REPORTS

Work Room Air Monitoring				
Location	Apr-22			
	06-04-22			
	PA	SO2	NOx	SPM
	ppm	mg/m3	mg/m3	mg/m³
Phthalic Anhydride Ware House	BDL	0.015	0.046	0.168
Limiting Standards	1	13	9	15
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
Location	May-22			
	27-05-22			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	<0.5	0.014	0.048	0.162
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	June-22			
Location	10-06-22			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	<0.5	0.012	0.040	0.152
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	July-22			
Location	20-07-22			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	<0.5	0.012	0.027	0.138
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	Aug-22			
Location	24-08-22			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	<0.5	0.021	0.017	0.430
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	Sept-22			
Location	19-09-2022			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	<0.5	0.030	0.018	0.470
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 EMISSION MONITORING REPORT

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result				Limiting Standard
		April-22				
		05-04-2022				
		Phthalic Anhydride Plant -I	Phthalic Anhydride Plant -II	Phthalic Anhydride Plant –III	Phthalic Anhydride Plant - IV	
1	Ortho Xylene	BDL	BDL	BDL	BDL	100 ppm
2	Phthalic Anhydride	BDL	BDL	BDL	BDL	1 ppm
3	Benzene	-	-	-	BDL	1 ppm

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result				Limiting Standard
		May-22				
		28.05.2022				
		Phthalic Anhydride Plant -I	Phthalic Anhydride Plant -II	Phthalic Anhydride Plant –III	Phthalic Anhydride Plant - IV	
1	Ortho Xylene	<0.5	<0.5	<0.5	<0.5	100 ppm
2	Phthalic Anhydride	<0.5	<0.5	<0.5	<0.5	1 ppm
3	Benzene	-	-	-	<0.5	1 ppm

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result				Limiting Standard
		June-22				
		11.06.2022				
		Phthalic Anhydride Plant -I	Phthalic Anhydride Plant -II	Phthalic Anhydride Plant –III	Phthalic Anhydride Plant - IV	
1	Ortho Xylene	<0.5	<0.5	<0.5	<0.5	100 ppm
2	Phthalic Anhydride	<0.5	<0.5	<0.5	<0.5	1 ppm
3	Benzene	-	-	-	<0.5	1 ppm

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result				Limiting Standard
		July-22				
		19-07-2022				
		Phthalic Anhydride Plant -I	Phthalic Anhydride Plant -II	Phthalic Anhydride Plant –III	Phthalic Anhydride Plant - IV	
1	Ortho Xylene	<0.5	<0.5	<0.5	<0.5	100 ppm
2	Phthalic Anhydride	<0.5	<0.5	<0.5	<0.5	1 ppm
3	Benzene	-	-	-	<0.5	1 ppm

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result				Limiting Standard
		Aug-22				
		22.08.2022				
		Phthalic Anhydride Plant -I	Phthalic Anhydride Plant -II	Phthalic Anhydride Plant –III	Phthalic Anhydride Plant - IV	
1	Ortho Xylene	<0.5	<0.5	<0.5	<0.5	100 ppm
2	Phthalic Anhydride	<0.5	<0.5	<0.5	<0.5	1 ppm
3	Benzene	-	-	-	<0.5	1 ppm

WORK ROOM EMISSION MONITORING REPORT

Sr. No.	Parameter	Analysis Result				Limiting Standard
		Sept -22				
		15-09-2022				
		Phthalic Anhydride Plant -I	Phthalic Anhydride Plant -II	Phthalic Anhydride Plant –III	Phthalic Anhydride Plant - IV	
1	Ortho Xylene	<0.5	<0.5	<0.5	<0.5	100 ppm
2	Phthalic Anhydride	<0.5	<0.5	<0.5	<0.5	1 ppm
3	Benzene	-	-	-	<0.5	1 ppm

ANNEXURE II

AMBIENT AIR MONITORING

Ambient air monitoring- ETP							
Parameters	**Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-22	**26-05-22**	**09-06-22**	**18-07-22**	**24-08-22**	**15-09-22**
SO2	80	12.9	14.7	14.1	11.8	12.9	13.6
Nox	80	23.5	24.9	25.3	22.4	23.1	24.0
PM 10	100	74.3	69.1	65.7	57.3	61.1	63.3
PM 2.5	60	25.0	23.7	22.1	16.7	20.0	21.7
OZONE	180	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1
CO	4	0.41	0.42	0.44	0.28	0.37	0.36
Lead	1	<0.8	<0.8	<0.8	<0.8	<0.8	0.8
Benezene	5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzopyrene	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	20	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
NH3	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ambient air monitoring- Flaker building terrace area New PA 4							
Parameters	**Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-22	**26-05-22**	**09-06-22**	**18-07-22**	**16-02-22**	**15-09-22**
SO2	80	12.6	15.7	15.2	13.1	13.4	14.1
Nox	80	23.3	25.1	25.3	22.9	23.4	24.5
PM 10	100	71.0	73.2	68.7	59.2	62.1	63.3
PM 2.5	60	23.3	25.0	23.3	18.8	20.8	22.1
OZONE	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead	1	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
CO	4	0.4	0.44	0.43	0.30	0.38	0.4
Benzene	5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzopyrene	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	20	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
NH3	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

EFFLUENT ANALYSIS REPORT

TREATED EFFLUENT ANALYSIS REPORT							
Date	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**	Limiting Standard (*)
	04-04-22	26-05-22	13-06-22	20-07-22	22-08-22	17-09-22	
pH	7.35	7.24	7.20	7.18	7.12	7.10	5.5 to 9.0
Suspended Solids	20	18	18	20	42	40	not to exceed 100
Chemical Oxygen Demand	90	80	70	60	50	50	not to exceed 250
Biochemical Oxygen Demand	32	30	30	30	30	22	not to exceed 100
Oil & Grease	<2	<2	<2	<2	<2	<2	not to exceed 10
TDS	850	820	800	820	800	780	Not exceed 2100
Chloride	221	218	208	198	162	158	Not exceed 600
Sulphates	138	126	120	124	112	108	Not exceed 1000
Ammonical Nitrogen as N	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	not to exceed 50
Bio-assay	100% survival	100% survival	100% survival	100% survival	100% survival	100% survival	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.							
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

AMBIENT NOISE LEVEL MONITORING REPORT

Ambient Noise Level Monitoring Report												
Date	**Apr-22**		**May-22**		**June-22**		**July-22**		**Aug-22**		**Sept-22**	
	05-04-2022		27-05-2022		10-06-2022		19-07-22		22-08-2022		16-09-2022	
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	64.8	61.0	66.0	61.2	68.6	65.2	66.2	63.0	69.1	65.4	66.1	61.8
L2	61.2	58.6	63.9	58.3	65.2	61.8	61.8	58.6	64.3	62.1	64.2	60.1
L3	58.2	55.0	59.0	53.8	59.0	53.0	59.2	55.3	60.2	53.3	59.6	55.2
L4	57.6	53.8	56.8	52.1	58.8	54.9	58.6	55.2	58.2	52.1	56.2	51.8
L5	68	65.1	70.0	63.8	70.1	67.3	69.2	64.8	70.3	67.2	69.8	65.3
L6	60.9	57.2	62.3	59.1	61.9	57.2	64.0	61.0	61.8	53.1	63.0	59.2
L7	68.8	64.8	69.0	62.2	69.8	65.3	70.0	67.2	69.2	62.3	70.0	65.9
Standard	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)

ANNEXURE II

STACK EMISSION MONITORING

A

Heater Stack Emission Monitoring - PA I							
Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		31 m	31 m	31 m	31 m	31 m	31 m
Inside Diameter (m)		0.5 m	0.5 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	0.196 m^2	0.196 m^2
Flue Gas Temperature (^oC)		57 ^oC	75 ^oC	61 ^oC	132 ^oC	174 ^oC	164 ^oC
Velocity m/sec		5.94 m/sec	5.89 m/sec	7.21 m/sec	6.0 m/sec	5.7 m/sec	8.82 m/sec
Flow m3/hr.		3789.07 m^3/hr.	3564.21 m^3/hr.	4584.42 m^3/hr.	2865 m^3/hr.	2598 m^3/hr.	3684 m^3/hr.
Fuel Quantity		4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	5 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD
Fuel Used		FO + Residue	FO + Residue	FO + Residue	FO + Residue	FO + Residue	FO + Residue
PA I Heater	**Limiting Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**26-05-2022**	**09-06-2022**	**21-07-22**	**23-08-2022**	**21-09-2022**
TPM (mg/Nm3)	**150**	61.92	57.09	63.50	52.1	34.0	30.41
SO2 (Kg/Day)	**1700**	4.08	3.84	4.23	2.2	19.6	11.79
Nox (mg/Nm3)	**450**	11.43	10.39	11.43	13.5	15.3	21.14
CO (ppm)	**200**	4.81	4.52	4.2	7.2	14.6	10.5
Acid Mist (mg/Nm3)	**35**	2.4	2.7	2.5	-	5.5	6.40

B

Heater Stack Emission Monitoring - PA II

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		31 m	34 m	31 m	31 m	34 m	31 m
Inside Diameter (m)		0.59 m	0.59 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	0.2732m2	0.2732m2
Flue Gas Temperature (^oC)		61 ^oC	85 ^oC	56 ^oC	80 ^oC	187 ^oC	180 ^oC
Velocity m/sec		5.59 m/sec	5.72 m/sec	6.82 m/sec	3.0 m/sec	5.2 m/sec	8.16 m/sec
Flow m3/hr.		4910.44 m^3/hr.	4685.5 m^3/hr.	6079.81 m^3/hr.	2559 m^3/hr.	3223 m^3/hr.	4511 m^3/hr.
Fuel Used		FO + Residue	FO + Residue	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	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD
PA II Heater	**Limiting Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**26-05-2022**	**09-06-2022**	**18-07-22**	**22-08-22**	**15-09-22**
TPM (mg/Nm3)	**150**	43.83	50.50	57.33	42.8	31.7	49.71
SO2 (Kg/day)	**360**	4.53	5.05	5.61	6.24	19.0	10.39
Nox (mg/Nm3)	**450**	13.50	12.46	14.54	22.3	15.1	23.81
CO ppm	**200**	4.81	4.49	4.92	7.2	18.2	12.4
Acid mist (mg/Nm3)	**35**	2.6	2.4	2.84	-	6.2	6.40

C

Heater Stack Emission Monitoring - PA IV							
Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		31 m	31 m	31 m	31 m	31 m	31 m
Inside Diameter (m)		0.8 m	0.8 m	0.8 m	0.8 m	0.8 m	0.8 m
Stack Area (m^2)		0.502 m2	0.502 m2	0.502 m2	0.502 m2	0.502 m2	0.502 m2
Flue Gas Temperature (^oC)		41 ^oC	65 ^oC	149^oC	150^oC	154 ^oC	156 ^oC
Velocity m/sec		4.42 m/sec	5.11 m/sec	9.51 m/sec	6.04 m/sec	4.8 m/sec	7.47 m/sec
Flow m3/hr.		7579.62 m^3/hr.	8143.0 m^3/hr.	12141.4 m^3/hr.	7937 m^3/hr.	5850 m^3/hr.	12190 m^3/hr.
Fuel Used		HSD + Residue	HSD + Residue	HSD + Residue	HSD + Residue	HSD + Residue	HSD + Residue
Fuel Quantity		4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD
PA IV Heater	**Limiting Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**27-05-2022**	**09-06-2022**	**18-07-22**	**22-08-22**	**15-09-22**
TPM (mg/Nm3)	**100**	51.10	54.23	65.65	58.6	26.2	41.53
SO2 (Kg/day)	**360**	5.83	6.27	7.47	8.2	9.5	29.65
Nox (mg/Nm3)	**450**	16.62	15.58	16.62	24.6	14.7	20.77
CO ppm	**200**	5.27	5.98	6.1	10.8	15.6	13.5
Acid mist (mg/Nm3)	**35**	3.0	3.5	3.68	-	8.4	6.93

D **Boiler Stack Emission Monitoring**

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		55 m	55 m	55 m	55 m	55 m	55 m
Inside Diameter (m)		2.6 m	2.6 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^2	5.31 m^2	5.31 m^2	5.31 m^2
Flue Gas Temperature (^oC)		164 ^oC	159 ^oC	171 ^oC	174 ^oC	119 ^oC	155 ^oC
Velocity m/sec		5.63 m/sec	5.20 m/sec	5.42 m/sec	5.80 m/sec	3.4 m/sec	5.24 m/sec
Flow m3/hr.		73396.40 m^3/hr.	68461.91 m^3/hr.	69534.72 m^3/hr.	70152 m^3/hr.	47622 m^3/hr.	62481 m^3/hr.
Fuel Used		Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil
Fuel Quantity		28 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)
Boiler	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**27-05-2022**	**10-06-2021**	**21-07-22**	**23-08-22**	**15-09-22**
TPM(mg/Nm3)	100	70.85	65.18	67.86	62.8	21.1	45.99
Nox conc (mg/Nm3)	450	15.58	14.54	15.58	18.6	18.2	43.17
SO2 (Kg/Day)	2430	90.36	84.28	85.60	87.8	34.0	55.98
CO mg/Nm3	200	7.79	7.02	7.5	7.2	13.0	12.60

E

Scrubber Stack Emission Monitoring - PA I							
Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		51 m	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)		1.99 m	1.99 m	1.99 m	1.99 m	1.99 m	1.99 m
Stack Area (m^2)		3.11m^3	3.11m^2	3.11m^2	3.11m^2	3.11m^2	3.11m^2
Flue Gas Temperature (^oC)		52 ^oC	43 ^oC	51 ^oC	56 ^oC	38 ^oC	45 ^oC
Velocity m/sec		5.68 m/sec	7.92 m/sec	8.65 m/sec	5.6 m/sec	6.2 m/sec	11.7 m/sec
Flow m3/hr.		58311.82 m^3/hr	83631.47m^3/hr	88992.6 m^3/hr	53214 m^3/hr	64206 m^3/hr	111217 m^3/hr
PA I Scrubber	**Limiting Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**26-05-2022**	**09-06-2022**	**22-07-22**	**22-08-22**	**17-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
SO2 (mg/Nm3)	850	8.97	9.80	12.2	14.5	ND	ND
TPM (mg/Nm3)	50	24.22	31.55	39.94	41.2	16.7	45.60
NOX (mg/Nm3)	350	10.39	12.46	13.5	21.0	ND	ND
Acid mist (mg/Nm3)	35	ND	ND	ND	ND	ND	ND
ND - NOT DETECTED							

F

Scrubber Stack Emission Monitoring - PA II

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		51 m	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)		1.69 m	1.69 m	1.69 m	1.69 m	1.69 m	1.69 m
Stack Area (m^2)		2.24 m^3	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2
Flue Gas Temperature (^oC)		54 ^oC	43 ^oC	51 ^oC	52 ^oC	39 ^oC	48 ^oC
Velocity m/sec		5.67 m/sec	7.48 m/sec	8.38 m/sec	8.65 m/sec	6.20 m/sec	9.7 m/sec
Flow m3/hr.		41687.89 m^3/hr	56967.93 m^3/hr	62216+.03 m^3/hr	60169 m^3/hr	46587 m^3/hr	71852 m^3/hr
PA - II Scrubber	**Limiting Standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**26-05-2022**	**09-06-2022**	**21-07-22**	**22-08-22**	**17-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
SO_2 (ppm)	1700	12.83	14.7	17.1	12.2	ND	ND
TPM (mg/Nm3)	100	33.52	41.34	49.11	13.5	10.5	45.10
Nox (mg/Nm3)	450	11.43	13.50	16.62	13.5	ND	ND
Acid mist (mg/Nm3)		2.8	3.2	ND	ND	ND	ND

ND - NOT DETECTED

G

Scrubber Stack Emission Monitoring - PA III							
Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		51 m	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)		1.69 m	1.69 m	1.69 m	1.69 m	1.69 m	1.69 m
Stack Area (m^2)		2.24 m^3	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2
Flue Gas Temperature (^oC)		55 ^oC	43 ^oC	48 ^oC	48 ^oC	42^oC	40 ^oC
Velocity m/sec		5.39 m/sec	7.91 m/sec	7.67 m/sec	4.4 m/sec	5.9 m/sec	10.01 m/sec
Flow m3/hr.		39496.68 m^3/hr	60202.27 m^3/hr	57474.5 m^3/hr	31866 m^3/hr	43518 m^3/hr	68231 m^3/hr
PA III Scrubber	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**27-05-202**	**09-06-2022**	**22-07-22**	**22-08-22**	**17-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
SO_2 (ppm)	1700	6.08	9.8	7.3	18.6	ND	ND
TPM (mg/Nm3)	100	43.91	56.00	52.73	36.1	14.8	30.19
Nox (mg/Nm3)	450	12.46	15.58	14.54	24.8	ND	ND
Acid mist (mg/Nm3)	35	4.0	4.5	ND	ND	ND	ND
ND - NOT DETECTED							

H

Scrubber Stack Emission Monitoring - PA IV							
Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		51 m	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)		1.69 m	1.69 m	1.69 m	1.69 m	1.69 m	1.69 m
Stack Area (m^2)		2.24 m^3	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2
Flue Gas Temperature (^oC)		47 ^oC	44 ^oC	48 ^oC	47 ^oC	40 ^oC	40 ^oC
Velocity m/sec		5.27 m/sec	8.14 m/sec	7.58 m/sec	11.1 m/sec	5.9 m/sec	8.68 m/sec
Flow m3/hr.		39645.56 m^3/hr	61797.5 m^3/hr	56762.0 m^3/hr	74176 m^3/hr	43424 m^3/hr	59286 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		04-04-2022	**27-05-2022**	**09-06-2022**	**18-07-22**	**22-08-22**	**15-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
SO_2 (ppm)	850	11.3	14.7	12.2	19.3	ND	ND
TPM	50	28.26	37.45	34.89	43.7	11.7	38.29
Nox	350	12.46	15.58	14.54	25.6	ND	ND
Acid mist (mg/Nm3)	35	3.8	4.2	3.5	-	ND	ND
ND- Not Detected							

I

Stack Emission Monitoring - PA Dedusting 1

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 m
Inside Diameter (m)		0.35 m	0.35 m	0.35 m	0.4 m	0.35 m	0.35 m
Stack Area (m^2)		0.1 m^2	0.1 m^2	0.1 m^2	0.1 m^2	0.1 m^2	0.1 m^2
Flue Gas Temperature (^oC)		42 ^oC	43 ^oC	38 ^oC	39 ^oC	34 ^oC	41 ^oC
Velocity m/sec		7.15 m/sec	7.79 m/sec	8.69 m/sec	7.6 m/sec	10.2 m/sec	8.11 m/sec
Flow m3/hr.		2341.04 m3/hr	2542.54 m^3/hr	2882.21 m^3/hr	2428 m^3/hr	3491 m^3/hr	16991 m^3/hr
PA Dedusting 1	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**28-05-2022**	**11-06-2022**	**19-07-22**	**22-08-22**	**16-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
TPM (mg/Nm3)	150	63.52	65.18	68.71	32.4	10.7	20.25
ND- Not Detected							

J

Stack Emission Monitoring - PA Dedusting 2

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 m
Inside Diameter (m)		0.35 m	0.35 m	0.35 m	0.35 m	0.35 m	0.35 m
Stack Area (m^2)		0.1 m^2	0.1 m^2	0.1 m^2	0.1 m^2	0.1 m^2	0.1 m^2
Flue Gas Temperature (^oC)		40 ^oC	44 ^oC	40 ^oC	42 ^oC	35 ^oC	42 ^oC
Velocity m/sec		7.40 m/sec	8.23 m/sec	7.13 m/sec	7.6 m/sec	11.3m/sec	9.45 m/sec
Flow m3/hr.		33137.35 m^3/hr	2678.99 m^3/hr	2351.23 m^3/hr	2402 m^3/hr	3827 m^3/hr	3040 m^3/hr
PA Dedusting 2	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**28-05-2022**	**11-06-2022**	**19-07-2022**	**23-08-22**	**16-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
TPM (mg/Nm3)	150	58.8	55.30	47.05	28.6	8.2	19.25
ND- Not Detected							

K

Scrubber Stack Emission Monitoring - PA Dedusting 3

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 m
Inside Diameter (m)		0.35 m	0.35 m	0.35 m	0.35 m	0.35 m	0.35 m
Stack Area (m^2)		0.1 m2	0.1 m2	0.1 m2	0.1 m2	0.1 m2	0.1 m2
Flue Gas Temperature (^oC)		41 ^oC	43 ^oC	38 ^oC	40 ^oC	38 ^oC	41 ^oC
Velocity m/sec		7.40 m/sec	9.05 m/sec	9.60 m/sec	11.4 m/sec	13.1 m/sec	8.2 m/sec
Flow m3/hr.		3174.21 m^3/hr	3857.10 m^3/hr	4160.96 m^3/hr	4804 m^3/hr	6863 m^3/hr	3456 m^3/hr
PA Dedusting 3	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**28-05-2022**	**11-06-2022**	**19-07-22**	**23-08-22**	**16-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
TPM (mg/Nm3)	150	61.95	66.93	69.76	32.6	12.5	17.23
ND- Not Detected							

L

Stack Emission Monitoring - PA Dedusting 4

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 m
Inside Diameter (m)		0.35 m	0.35 m	0.35 m	0.35 m	0.35 m	0.35 m
Stack Area (m^2)		0.1 m2	0.1 m2	0.1 m2	0.1 m2	0.1 m2	0.1 m2
Flue Gas Temperature (^oC)		44 ^oC	44 ^oC	41 ^oC	48 ^oC	37 ^oC	42 ^oC
Velocity m/sec		8.38 m/sec	7.34 m/sec	6.83 m/sec	9.5 m/sec	9.9 m/sec	11.2 m/sec
Flow m3/hr.		3560.16 m^3/hr	3117.95 m^3/hr	2931.86 m^3/hr	3871 m^3/hr	4335 m^3/hr	47054 m^3/hr
PA Dedusting 4	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**28-05-2022**	**11-06-2022**	**19-07-22**	**23-08-22**	**16-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
TPM (mg/Nm3)	150	60.55	54.01	48.80	36.4	9.4	19.50
ND- Not Detected							

M

Scrubber Stack Emission Monitoring - MA Bagging

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		30 m	30 m	30 m	30 m	30 m	30 m
Inside Diameter (m)		0.264 m	0.264 m	0.264 m	0.264 m	0.264 m	0.264 m
Stack Area (m^2)		0.0547 m^2	0.0547 m^2	0.0547 m^2	0.0547 m^2	0.0547 m^2	0.0547 m^2
Flue Gas Temperature (°C)		41 °C	40 °C	41 °C	48 °C	39 °C	42 °C
Velocity m/sec		4.87 m/sec	4.95 m/sec	5.70 m/sec	6.1 m/sec	9.1 m/sec	6.07 m/sec
Flow m3/hr.		911.03 m^3/hr	928.23 m^3/hr	1065.61 m^3/hr	1082 m^3/hr	1746 m^3/hr	1115 m^3/hr
MA bagging	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**28-05-2022**	**10-06-2022**	**19-07-22**	**24-08-22**	**17-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
TPM (mg/Nm3)	150	34.73	39.37	46.21	22.6	15.0	14.19
Acid Mist (mg/Nm3)	35	2.8	3.1	3.6	2.8	ND	ND
ND- Not Detected							

N

Scrubber Stack Emission Monitoring - MA Flaker

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		30 m	30 m	30 m	30 m	30 m	30 m
Inside Diameter (m)		0.264 m	0.264 m	0.264 m	0.264 m	0.264 m	0.264 m
Stack Area (m^2)		0.0547 m2	0.0547 m2	0.0547 m2	0.0547 m2	0.0547 m2	0.0547 m2
Flue Gas Temperature (°C)		43 °C	43 °C	40 °C	50 °C	40 °C	40 °C
Velocity m/sec		4.91 m/sec	5.07 m/sec	5.59 m/sec	6.7 m/sec	7.8 m/sec	5.89 m/sec
Flow m3/hr.		912.65 m^3/hr	941.42 m^3/hr	1047.73 m^3/hr	1166 m^3/hr	1427 m^3/hr	1085 m^3/hr
MA flaker	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**28-05-2022**	**10-06-2022**	**23-07-22**	**24-08-22**	**17-09-22**
TOC (mg/Nm3)	150	ND	ND	ND	ND	ND	ND
TPM (mg/Nm3)	150	30.40	37.66	43.16	34.2	11.1	23.9
Acid mist (mg/Nm3)		3.2	3.5	3.9	1.9	ND	ND
ND- Not Detected							

O

Stack Emission Monitoring DG 2250 KVA

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		30 m	30 m	30 m	30 m	30 m	30 m
Inside Diameter (m)		0.5 m	0.5 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	0.196 m^2	0.196 m^2
Flue Gas Temperature (°C)		360 °C	158 °C	146 °C	80 °C	151 °C	155 °C
Velocity m/sec		8.50 m/sec	6.98 m/sec	6.06 m/sec	5.91 m/sec	6.2 m/sec	6.22 m/sec
Flow m3/hr.		2825.85 m^3/hr.	3407.63 m^3/hr.	3045.80 m^3/hr.	4477 m^3/hr.	2992 m^3/hr.	7524 m^3/hr.
Fuel Used		HSD	HSD	HSD	HSD	HSD	HSD
DG 2250 KVA	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**27-05-2022**	**10-06-2022**	**18-07-22**	**23-08-22**	**16-09-22**
TPM(mg/Nm3)	100	77.11	**74.61**	**63.47**	46.5	29.51	56.30
Nox conc (mg/Nm3)	450	13.50	15.58	14.54	28.6	15.2	25.81
SO2 (mg/Nm3)	1700	3.91	4.20	3.28	1.6	2.3	11.73
CO (mg/Nm3)	200	5.2	5.9	6.2	6.2	19.1	19.4

P

Stack Emission Monitoring DG 2000 KVA

Physical Data:		**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
Stack Height (m)		30 m	30 m	30 m	30 m	30 m	30 m
Inside Diameter (m)		0.5 m	0.5 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	0.196 m^2	0.196 m^2
Flue Gas Temperature (°C)		180°C	148°C	157 °C	80 °C	131 °C	150 °C
Velocity m/sec		6.98 m/sec	6.81 m/sec	6.44 m/sec	5.7 m/sec	5.9 m/sec	5.96 m/sec
Flow m3/hr.		3245.37 m^3/hr.	3407.40 m^3/hr.	3151.49m^3/hr.	3315 m^3/hr.	2971.71m^3/hr.	7334 m^3/hr.
Fuel Used		HSD	HSD	HSD	HSD	HSD	HSD
DG 2000 KVA	**Limiting standard**	**Apr-22**	**May-22**	**June-22**	**July-22**	**Aug-22**	**Sept-22**
		06-04-2022	**27-05-2022**	**10-06-2022**	**22-07-22**	**23-08-22**	**16-09-22**
TPM(mg/Nm3)	100	65.64	**68.12**	**60.60**	46.8	18.3	57.35
Nox conc (mg/Nm3)	450	14.54	16.62	14.54	22.8	13.3	24.80
SO2 (mg/Nm3)	1700	3.50	3.67	3.39	1.5	2.7	9.08
CO (mg/Nm3)	200	4.6	5.1	5.5	5.5	12.8	20.84

ANNEXURE III

A) DATA ON WATER CONSUMPTION

PERIOD: April - 2022 TO September -2022

MIDC Raw water receipt		
Month	**Raw water per month**	**Raw water per day**
April-2022	105550	3518.3
May-2022	91180	2941.3
June-2022	110200	3673.3
July-2022	88690	2861.0
August-2022	98770	3186.1
September-2022	97200	3240.0
Average	98598.0	3236.7

B) DATA ON EFFLUENT GENERATION

PERIOD: April - 2022 TO September -2022

CONSENTED EFFLUENT DISCHARGE TO CETP- 220 M3/DAY

Effluent discharged to CETP		
Month	**Effluent per month**	**Effluent per day**
April-2022	5961.9	198.7
May-2022	5995.5	193.4
June-2022	5816.8	193.9
July-2022	6102.7	196.9
August-2022	6123.7	197.5
September-2022	5196.5	173.2
Average	**5866.2**	**192.3**

ANNEXURE – IV

RESIDUE GENERATION DATA

PERIOD – April 2022 TO September 2022

Month	Residue Generation (MT)
April -22	325.13
May-22	319.01
June -22	333.50
July-22	347.32
August-22	313.37
September-22	266.78

ANNEXURE - V

EM841321094IN IVR:6977841321094
SPP TALOJA A.V. S.O (410208)
Counter No:1,02/06/2022,11:18
To:THE DIRECTOR ,MINISTISTRY OF E
PIN:110003, Lodi Road HO
From:I G PETROCH,PLOT NO T-2 MIDC
Wt:906gms
Amt:141.60(Cash)Tax:21.60
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EM841321085IN IVR:6977841321085
SPP TALOJA A.V. S.O (410208)
Counter No:1,07/06/2022,11:18
To:THE MEMBER ,MAHARASHTRA POLL
PIN:400022, Sion SO
From:I G PETROCH,PLOT NO T-2 MIDC
Wt:906gms
Amt:47.20(Cash)Tax:7.20
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EM841321103IN IVR:6977841321103
SPP TALOJA A.V. S.O (410208)
Counter No:1,02/06/2022,11:18
To:CENTRAL POLLU,PARIVESH BHAWAN
PIN:390023, Subhanpura SO
From:I G PETROCH,PLOT NO T-2 MIDC
Wt:906gms
Amt:106.20(Cash)Tax:16.20
(Track on www.indiapost.gov.in)

Dhairyasheel Shinde

From: Dhairyasheel Shinde <drshinde@igpetro.com>
Sent: Wednesday, June 1, 2022 12:56 PM
To: eccompliance-mh@gov.in
Subject: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Attachments: EC COMPLIANCE REPORT - OCT 2021 TO MAR 2022.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-III & 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 2021 – MAR 2022.** 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 Shinde

From: Dhairyasheel Shinde <drshinde@igpetro.com>
Sent: Wednesday, June 1, 2022 1:00 PM
To: archituprit.cpcb@nic.in
Subject: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Attachments: EC COMPLIANCE REPORT - OCT 2021 TO MAR 2022.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.

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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.**

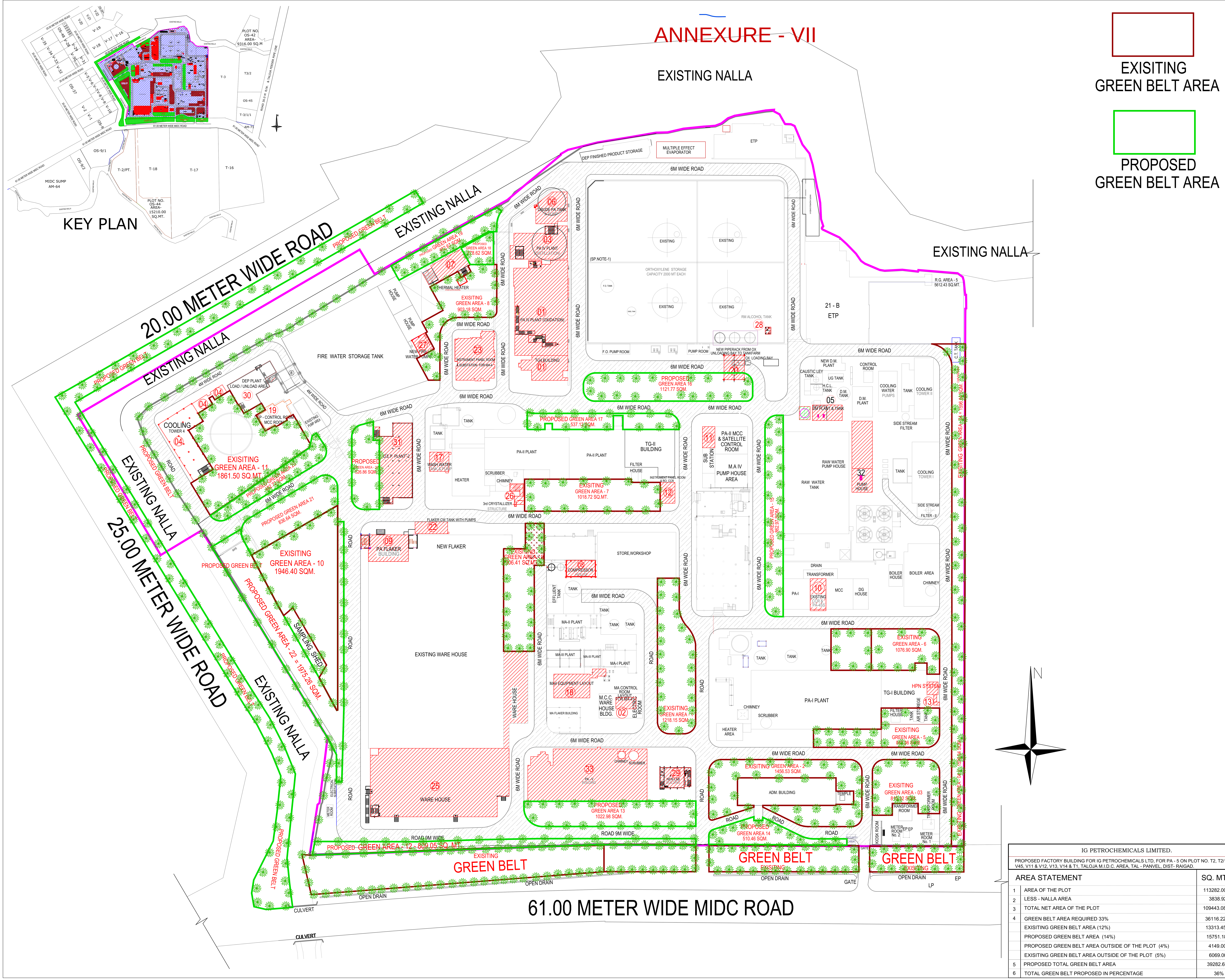
ANNEXURE - VI

Photographs of Raw Material Storage

STAMP FOR APPROVAL 01/01

E.C. LAYOUT

ANNEXURE - VII



PROPOSED BUILDING AREA STATEMENT

SR. NO.	DESCRIPTION
01	PA IV PLANT (OXIDATION) PA-IV TG-4 BUILDING
02	M.A. CONTROL ROOM LAYOUT
03	PA-IV DISTILLATION
04	COOLING TOWER SIDE STREAM FILTER BLOW DOWN PIT
05	DM PLANT & TANK
06	CRUDE PA & PURE PA
07	PA-IV THERMAL HEATER AREA
08	COMPRESSOR HOUSE
09	PA FALKER HOUSE
10	EXISTING CCR & PA-4SS
11	M.A IV - PUMP HOUSE & SUBSTATION
12	INSTRUMENT PANEL ROOM & RO_CCR
13	HPN SYSTEM
17	WASH WATER TANK
18	MA-4 - EQUIPMENT LAYOUT
19	DEP - CONTROL ROOM & MCC ROOM
20	OX LOADING BAY
21	AREA FOR NEW ETP EQUIPMENT LAYOUT
22	FLAKER CW SYSTEM
23	INSTRUMENT PANEL ROOM & SUBSTATION FOR MA-4
24	02 ETP- MEE-ATFD
25	EXTENED WAREHOUSE
26	EQUIPMENT LAYOUT PLAN & 3RD CRYSTALLIZER IN PA - 2 PLANT
27	FW PUMP HOUSE
28	RM ALCOHOL TANK
29	NEW LAB BUILDING
30	D.E.P PLANT & LOAD / UNLOAD AREA
31	D.E.P. PLANT 2
32	RAW WATER PUMP HOUSE
33	PA V BUILDING

NAME OF OWNER

IG PETROCHEMICALS LIMITED.

MR. J. K. SABOO (EXECUTIVE DIRECTOR)

DESCRIPTION OF PROPOSAL AND PROPERTY

PROPOSED FACTORY BUILDING FOR IG PETROCHEMICALS LTD, ON PLOT NO. T2, T2/1, V45, V11 & V12, V13, V14 & T1, TALOJA M.I.D.C. AREA, TAL - PANVEL, DIST- RAIGAD.

NAME OF OWNER

SIGNATURE OF OWNER — IG PETROCHEMICAL LTD

NAME OF ARCHITECT

SIGNATURE OF ARCHITECT

M.R. KASHELKAR & CO.
ARCHITECT AND INTERIOR DESIGNER
410-412, GLOBE ARCADE, 4TH FLOOR,
RP-112, MIDC RESIDENTIAL ZONE,
NEAR MIDC GANPATI MANDIR,
DOMBIVLI (E) 421 203,
PHONE-9619267888

IG PETROCHEMICALS LIMITED.

PROPOSED FACTORY BUILDING FOR IG PETROCHEMICALS LTD, FOR PA - 5 ON PLOT NO. T2, T2/1, V45, V11 & V12, V13, V14 & T1, TALOJA M.I.D.C. AREA, TAL - PANVEL, DIST- RAIGAD.

	AREA STATEMENT	SQ. MT.
1	AREA OF THE PLOT	113282.00
2	LESS - NALLA AREA	3838.92
3	TOTAL NET AREA OF THE PLOT	109443.08
4	GREEN BELT AREA REQUIRED 33%	36116.22
	EXISITING GREEN BELT AREA (12%)	13313.45
	PROPOSED GREEN BELT AREA (14%)	15751.18
	PROPOSED GREEN BELT AREA OUTSIDE OF THE PLOT (4%)	4149.00
	EXISITING GREEN BELT AREA OUTSIDE OF THE PLOT (5%)	6069.00
5	PROPOSED TOTAL GREEN BELT AREA	39282.63
6	TOTAL GREEN BELT PROPOSED IN PERCENTAGE	36%

JOB NO	DRG NO	DATE	FOR	DRAWN BY	CHKED BY
O-21/18-19	EC - 01	18-12-2021	CANCELLED	PPS	KMK
O-21/18-19	EC - 02	25-12-2021	CANCELLED	PPS	KMK
O-21/18-19	EC - 03	30-04-2022	CANCELLED	PPS	KMK
O-21/18-19	EC - 04	10-05-2022	CANCELLED	PPS	KMK
O-21/18-19	EC - 05	01-06-2022	CANCELLED	PPS	KMK
O-21/18-19	EC - 06	01-07-2022	APPROVAL	PPS	KMK

ANNEXURE VIII

Note on Occupational Health Surveillance Programme & Proper housekeeping 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.

Aspira pathlab & Diagnostics ltd

[redacted]

HEALTH REGISTER

I G PETROCHEMICALS LIMITED

Dr. Pankaj shah
M.D., A.F.I.H., M.B.B.S.,
Industrial Health Consultant

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 08-03-2022 To 08-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr. No.	E.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment at present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Byeproduct handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work, late period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
4	[illegible]	KAUSHIL S. BHATT	Male	51		—	—	Fitter		08-03-2022 Fit	Not Applicable	Not Applicable		
6	[illegible]	APPA N. VETTI	Male	36		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
9	[illegible]	DILIPSAT B. SHAKTHI	Male	30		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
13	[illegible]	RAJESH R. PILADIAN	Male	49		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
14	[illegible]	DEVU P. BASU	Male	55		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
15	[illegible]	NARESH B. SHELKE	Male	54		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
17	[illegible]	RAGHUNATHPRASAD TIWARI	Male	55		—	—	E.M & W/H		08-03-2022 Fit	Not Applicable	Not Applicable		
18	[illegible]	ANANDKUMAR V. TIWARI	Male	52		—	—	E.M & W/H		08-03-2022 Fit	Not Applicable	Not Applicable		
23	[illegible]	ASHOK S. RAUT	Male	49		—	—	E.M & W/H		08-03-2022 Fit	Not Applicable	Not Applicable		
24	[illegible]	CHARUDATTA D. TAMHI	Male	59		—	—	Electrical		08-03-2022 Fit	Not Applicable	Not Applicable		
28	[illegible]	MANIKANT M. DUBEY	Male	52		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
42	[illegible]	SAJAN S. ISLAL	Male	28		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
43	[illegible]	SAMEER M. MUNSHI	Male	27		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
45	[illegible]	PRAVIN D. BHARGAR	Male	31		—	—	ITA Tech Mech		08-03-2022 Fit	Not Applicable	Not Applicable		
53	[illegible]	SACHIN C. BAGUL	Male	42		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
54	[illegible]	MEGHAM M. PATIL	Male	57		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
57	[illegible]	RAJESH B. SANGADE	Male	29		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
58	[illegible]	VINAYAK W. PATIL	Male	42		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon
Dr. Pankaj Shah

Regd. No. 51279

FORM NO. 7
HEALTH REGISTER

From :- 09-03-2022 To 09-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated.

Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupa-tion	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
58	[illegible]	YASHWANT R. RASKAR	Male	49		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
59	[illegible]	K. UNNIKRISHNAN	Male	47		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
60	[illegible]	VENKATADHAR P. KULKARNI	Male	34		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
69	[illegible]	MANOJKUMAR SINGH	Male	35		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
71	[illegible]	MINANATH M. SINALKAR	Male	54		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
73	[illegible]	NARAYAN R. KADAM	Male	53		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
77	[illegible]	SANDEEP A. YADTA	Male	49		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
78	[illegible]	ASHOK V. BAGAL	Male	52		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
79	[illegible]	SHRIPAD M. SONAWANE	Male	51		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
80	[illegible]	AMIT A. GHARAT	Male	47		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
83	[illegible]	LAXMIKANT TIWARI	Male	48		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
84	[illegible]	JAIRAM K. SHARMA	Male	54		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		[signature]
89	[illegible]	Pramod B. Mathur	Male	56		—	—	RM & WH		09-03-2022 Fit	Not Applicable	Not Applicable		[signature]
94	[illegible]	Dnyaneshwar N. Naik	Male	34		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		[signature]
99	[illegible]	Anandkumar Upadhyay	Male	47		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		[signature]
101	[illegible]	Dilip M. Patil	Male	61		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		[signature]
102	[illegible]	Prakash N. Ghangrekar	Male	55		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		[signature]
106	[illegible]	Laba Sharan Nighalkar	Male	49		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		[signature]

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 09-03-2022 To 08-03-2023

[In respect of persons employed in occupations declared to be dangerous operations under Sections 87]

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product (handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work, sate period of suspension with detailed	Certified fit to resume duty as with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
107	[illegible]	Rajesh S. Bhoir	Male	26		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
108	[illegible]	Meera R. Sharma	Female	33		—	—	Commercial		09-03-2022 Fit	Not Applicable	Not Applicable		
111	[illegible]	Rishikesh J. Patil	Male	40		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
112	[illegible]	Ramakant N. Thete	Male	45		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
113	[illegible]	Sunil D. Surve	Male	31		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
119	[illegible]	Ashok S. Dhawale	Male	54		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
122	[illegible]	Vinayak V. Bhoir	Male	39		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
124	[illegible]	Ramkumar M. Kulkarni	Male	58		—	—	Electrical		09-03-2022 Fit	Not Applicable	Not Applicable		
127	[illegible]	Umesh P. Mhatre	Male	39		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
133	[illegible]	Laxman K. Dake	Male	48		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		
140	[illegible]	Dalil J. Vaz	Male	52		—	—	RM & WH		09-03-2022 Fit	Not Applicable	Not Applicable		
146	[illegible]	Sameer S. Kaur	Male	47		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		
154	[illegible]	Ramakhelawan U. Lal	Male	55		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
155	[illegible]	Ashok M. Rajaram	Male	35		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
158	[illegible]	Vijay P. Patil	Male	39		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
161	[illegible]	Avinash T. Dhawale	Male	45		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
163	[illegible]	Madhukar R. Nighekar	Male	49		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
164	[illegible]	Rajesh K. Patil	Male	38		—	—	RM & WH		09-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah   Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 09-03-2022 To 09-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated.   **Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.**

Sr. No.	T.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
165	170022	Dassman	Male	24		—	—	NII		10-03-2022 Fit	Not Applicable	Not Applicable		
172	250025	GIRISH T.	Male	31		—	—	Laboratory		12-03-2022 Fit	Not Applicable	Not Applicable		
173	[illegible]	PRAKASH R. PATIL	Male	51		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
176	250047	NARESH R. KHAIRE	Male	54		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
181	250029	BHASKAR S. KOPARKAR	Male	54		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
183	250140	PRANAY S. THAKUR	Male	27		—	—	IT & Instrument		12-03-2022 Fit	Not Applicable	Not Applicable		
186	[illegible]	NARAYAN R. HAZARE	Male	35		—	—	Electrical		12-03-2022 Fit	Not Applicable	Not Applicable		
189	[illegible]	SANTOSH J. PATIL	Male	53		—	—	MA Production		12-03-2022 Fit	Not Applicable	Not Applicable		
190	250071	JEEVAN M. MHATRE	Male	51		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
194	[illegible]	EKNATH P. JALE	Male	48		—	—	Electrical		12-03-2022 Fit	Not Applicable	Not Applicable		
201	250054	ARUNKUMAR N. JHA	Male	57		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
202	[illegible]	SHASHIKANT G. RUPALE	Male	52		—	—	Laboratory		12-03-2022 Fit	Not Applicable	Not Applicable		
206	[illegible]	MANISH S. WAYANGANKAR	Male	50		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
208	[illegible]	SANJAY DASHRATH PATIL	Male	48		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
251	[illegible]	SHANKAR BHANWAR PATIL	Male	59		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
294	[illegible]	PARAG D. KAMBLI	Male	46		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
302	[illegible]	SANTOSH K. KORGAONKAR	Male	59		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
303	[illegible]	SANDESH VISHWANATH PATIL	Male	35		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon
Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7
HEALTH REGISTER

From :- 14-03-2022 To 14-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr No.	EC No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Chemical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	RM & WH		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Mechanical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	RM & WH		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	RM & WH		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Chemical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Mechanical		[illegible]	Not Applicable	Not Applicable		[signature]

Aspira pathlab & Diagnostics ltd

[redacted]

HEALTH REGISTER

I G PETROCHEMICALS LIMITED

Dr. Pankaj shah
M.D., A.F.I.H., M.B.B.S.,
Industrial Health Consultant

Name of Certifying Surgeon

Dr. Pankaj Shah

Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 08-03-2022 To 08-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

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1	[illegible]	MOHIT KUMAR SINGH	Male	31		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
2	29923	NARENDRA B.	Male	40		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
3	29924	VASUDEV SARDA	Male	43		—	—	Ware House		08-03-2022 Fit	Not Applicable	Not Applicable		
4	29934	AMIT KUMAR	Male	40		—	—	Ware House		08-03-2022 Fit	Not Applicable	Not Applicable		
5	29899	PRABHAKAR C. PARTE	Male	44		—	—	Electrical		08-03-2022 Fit	Not Applicable	Not Applicable		
6	29924	DHANJYSHEEL R. SHINDE	Male	44		—	—	HHEQ		08-03-2022 Fit	Not Applicable	Not Applicable		
10	29917	ESHOR WORADE	Male	48		—	—	HR & Admin		08-03-2022 Fit	Not Applicable	Not Applicable		
11	29928	ATUL S. MAWANDE	Male	36		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		
12	—	RAMA NARAYAN BALKAR	Male	37		—	—	HR & Admin		08-03-2022 Fit	Not Applicable	Not Applicable		
14	29897	SISTLA VISHWANATHA KUMAR	Male	29		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
19	12899	MOHANDAS V. KOTTU	Male	53		—	—	Commercial		08-03-2022 Fit	Not Applicable	Not Applicable		
20	—	BABASO N. GURAV	Male	47		—	—	Security		08-03-2022 Fit	Not Applicable	Not Applicable		
21	29919	SUJIT R. PATIL	Male	31		—	—	Ware House		08-03-2022 Fit	Not Applicable	Not Applicable		
22	29921	RUPALI B. KARWIR	Male	25		—	—	Engg. Store		08-03-2022 Fit	Not Applicable	Not Applicable		
23	29940	UJJWAL KUMAR MAHANTI	Male	53		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
24	29939	DHARMA R. WARSING	Male	36		—	—	Engg. Store		08-03-2022 Fit	Not Applicable	Not Applicable		
25	12899	SANJAY G. RANE	Male	46		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
28	29902	RENGED C. PINTO	Male	45		—	—	HR & Admin		08-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah

Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 08-03-2022 To 08-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated.

Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
29	[illegible]	GOKUL R. KHATOUE	Male	44		—	—	Fire Security		08-03-2022 Fit	Not Applicable	Not Applicable		
31	[illegible]	PARAS JAIN	Male	53		—	—	Accts		08-03-2022 Fit	Not Applicable	Not Applicable		
32	[illegible]	MAJID R. SOMANI	Male	33		—	—	Accts		08-03-2022 Fit	Not Applicable	Not Applicable		
33	[illegible]	PRASAD P. KALAME	Male	30		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
34	[illegible]	ROHIT JAGTAP	Male	27		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
35	[illegible]	RINDESHWAR P. SHAH	Male	33		—	—	Fire Security		08-03-2022 Fit	Not Applicable	Not Applicable		
36	[illegible]	HANMANT M. SURYAWANSHI	Male	38		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
37	[illegible]	MOHAN S. KHATI	Male	53		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
38	[illegible]	ASHOK PULLEU	Male	30		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
39	[illegible]	AVDHUT P. KHOT	Male	28		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
40	[illegible]	MINI C. WARRIER	Female	52		—	—	Accts		08-03-2022 Fit	Not Applicable	Not Applicable		
41	[illegible]	SHANKAR LAL SHARMA	Male	36		—	—	Accts		08-03-2022 Fit	Not Applicable	Not Applicable		
51	[illegible]	SURAJ S. DAPAKE	Male	27		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
52	[illegible]	SANDESH R. KADAM	Male	29		—	—	Instrument		08-03-2022 Fit	Not Applicable	Not Applicable		
57	[illegible]	SHAKTIVINAYAK D. NADVEKAR	Male	29		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
61	[illegible]	AJIT A. DADAS	Male	28		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
62	[illegible]	SAURABH C. KHEDEKAR	Male	31		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
63	[illegible]	AZARUDDIN A. SANDE	Male	28		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 08-03-2022 To 08-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. **Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.**

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
64	325137	VIVEK B. SHINDE	Male	32		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
65	[illegible]	GIRDHAR RAJMANE	Male	32		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
66	[illegible]	AKHIL S. INGLE	Male	45		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
67	[illegible]	KIRAN KANHEKAR	Male			—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
68	[illegible]	RAHUL R. PATIL	Male	24		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
70	—	SUNIL R. PARTE	Male	52		—	—	Security		08-03-2022 Fit	Not Applicable	Not Applicable		
72	[illegible]	VAIBHAV R. PATIL	Male	34		—	—	Laboratory		08-03-2022 Fit	Not Applicable	Not Applicable		
74	[illegible]	A. S. DONGRE	Male	31		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
77	225149	NITESH G. MALI	Male	28		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
78	[illegible]	CHETAN DHAMANE	Male	25		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
81	[illegible]	MILAN SANMAL	Male	28		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
82	[illegible]	MUKTARAM A. TEMKE	Male	27		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
83	[illegible]	SHRIRAM M. THAKUR	Male	33		—	—	Mechanical		08-03-2022 Fit	Not Applicable	Not Applicable		
86	[illegible]	AVINASH KHADE	Male	28		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
87	[illegible]	AKSHAY KOKE	Male	23		—	—	Production		08-03-2022 Fit	Not Applicable	Not Applicable		
88	10910	RAJESH PURWAR	Male	53		—	—	Accts		08-03-2022 Fit	Not Applicable	Not Applicable		
90	170054	Gabar Singh Parmar	Male	53		—	—	ESS		09-03-2022 Fit	Not Applicable	Not Applicable		
91	[illegible]	Sandeep B. Kadam	Male	34		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 09-03-2022 To 09-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employ-ment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharg e	Nature of job or occupa-tion	Raw material or Bye produc thandl ed	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspen-sion issued to worker	Signatur e with Certifyin g Surgeon
92	[illegible]	Ranjeet T. Thakur	Male	35		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
93	[illegible]	Alluri Satya Krishnam Raju	Male	29		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
94	[illegible]	Santosh Kumar Pandey	Male	31		—	—	Commercial		09-03-2022 Fit	Not Applicable	Not Applicable		
95	[illegible]	Rajesh Bajpai	Male	40		—	—	HM		09-03-2022 Fit	Not Applicable	Not Applicable		
97	[illegible]	Bhaskaranayar K. Rajeevan	Male	32		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
98	[illegible]	Lalgesh Shah	Male	27		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
100	[illegible]	Mitin K. Yadav	Male	25		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
101	[illegible]	Sreenath P. Unnith	Male	29		—	—	Electrical		09-03-2022 Fit	Not Applicable	Not Applicable		
104	[illegible]	Anil Mahadik	Male	32		—	—	Electrical		09-03-2022 Fit	Not Applicable	Not Applicable		
105	[illegible]	Pawan V. Choudhari	Male	36		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
106	[illegible]	Megha S. Virankar	Female	29		—	—	Commercial		09-03-2022 Fit	Not Applicable	Not Applicable		
113	[illegible]	Satyanarayan Mahestwari	Male	45		—	—	Admn		09-03-2022 Fit	Not Applicable	Not Applicable		
114	[illegible]	Prashanth V. Mohan	Male	44		—	—	WH		09-03-2022 Fit	Not Applicable	Not Applicable		
115	[illegible]	Yogesh H. Sawant	Male	35		—	—	WH		09-03-2022 Fit	Not Applicable	Not Applicable		
117	[illegible]	P. Rajesh	Male	39		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
118	[illegible]	Arvind G. Deshmukh	Male	32		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		
122	[illegible]	Satyam Thomas P.	Male	31		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
123	[illegible]	Shashikant S. Sutar	Male	34		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 09-03-2022 To 09-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

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92	[illegible]	Ranjeet T. Thakur	Male	33		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
93	[illegible]	Alkes Satya Kishnan Raju	Male	28		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
94	[illegible]	Santosh Kumar Pandey	Male	31		—	—	Commercial		09-03-2022 Fit	Not Applicable	Not Applicable		
95	[illegible]	Rajesh Dagvi	Male	42		—	—	RM		09-03-2022 Fit	Not Applicable	Not Applicable		
97	[illegible]	Bhashankumar S. Baghele	Male	32		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
98	[illegible]	Kalpesh Shah	Male	25		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
100	[illegible]	Nitin A. Yadav	Male	37		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
103	[illegible]	Nivrutti P. Limaje	Male	39		—	—	Electrical		09-03-2022 Fit	Not Applicable	Not Applicable		
104	[illegible]	Anil Mallaiah	Male	32		—	—	Electrical		09-03-2022 Fit	Not Applicable	Not Applicable		
105	[illegible]	Pawan V. Chaudhari	Male	36		—	—	Instrument		09-03-2022 Fit	Not Applicable	Not Applicable		
106	[illegible]	Megha S. Virankar	Female	30		—	—	Commercial		09-03-2022 Fit	Not Applicable	Not Applicable		
110	[illegible]	Satyanarayan Maheshwari	Male	45		—	—	Audit		09-03-2022 Fit	Not Applicable	Not Applicable		
114	[illegible]	Ponnuthi V. Muthan	Male	44		—	—	WH		09-03-2022 Fit	Not Applicable	Not Applicable		
115	[illegible]	Yogesh B. Sonawane	Male	35		—	—	WH		09-03-2022 Fit	Not Applicable	Not Applicable		
117	[illegible]	P. Rajesh	Male	39		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
118	[illegible]	Arshad G. Ibrahimkhi	Male	33		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		
122	[illegible]	Soyuse Thomas P.	Male	31		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
123	[illegible]	Shashikant B. Sutar	Male	34		—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah

Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 09-03-2022 To 09-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

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125	[illegible]	[illegible]	Male	34	[illegible]	—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
126	[illegible]	[illegible]	Male	29	[illegible]	—	—	Stores		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
127	[illegible]	[illegible]	Male	47	[illegible]	—	—	Cement & Clinker		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
128	[illegible]	[illegible]	Male	35	[illegible]	—	—	Cement & Clinker		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
129	[illegible]	[illegible]	Male	30	[illegible]	—	—	ETP		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
130	[illegible]	[illegible]	Male	39	[illegible]	—	—	HR & Admin		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
131	[illegible]	[illegible]	Male	40	[illegible]	—	—	Electrical		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
132	[illegible]	[illegible]	Male	28	[illegible]	—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
133	[illegible]	[illegible]	Male	32	[illegible]	—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
134	[illegible]	[illegible]	Male	36	[illegible]	—	—	Civil		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
135	[illegible]	[illegible]	Male	37	[illegible]	—	—	HR		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
136	[illegible]	[illegible]	Male	27	[illegible]	—	—	IT		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
137	[illegible]	[illegible]	Male	27	[illegible]	—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
138	[illegible]	[illegible]	Male	25	[illegible]	—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
139	[illegible]	[illegible]	Male	39	[illegible]	—	—	Accts		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
140	[illegible]	[illegible]	Male	34	[illegible]	—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
141	[illegible]	[illegible]	Male	33	[illegible]	—	—	Laboratory		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
142	[illegible]	[illegible]	Male	46	[illegible]	—	—	Accts		09-03-2022 Fit	Not Applicable	Not Applicable		[illegible]

Name of Certifying Surgeon
Dr. Pankaj Shah

Regd. No. 51279

FORM NO. 7
HEALTH REGISTER

From :- 09-03-2022 To 09-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated.

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Sr. No.	T.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupa-tion	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspen-sion issued to worker	Signature with Certifying Surgeon
167	[illegible]	[illegible]	Male	33		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
168	[illegible]	Sagar A. Pawar	Male	32		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
169	[illegible]	[illegible]	Male	29		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
170	[illegible]	Vaibhav Y. Gadgaonkar	Male	28		—	—	Mechanical		09-03-2022 Fit	Not Applicable	Not Applicable		
171	[illegible]	Pankaj Pawar	Male	29		—	—	Production		09-03-2022 Fit	Not Applicable	Not Applicable		
173	[illegible]	SUYODHAN TODKAR	Male	29		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
176	[illegible]	TANMAY KATEKHAYE	Male	25		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
177	[illegible]	PARESH LAD	Male	33		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
178	[illegible]	AMOL N. GHODKE	Male	34		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
179	[illegible]	SUJEET KUMAR SINGH	Male	29		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
180	[illegible]	SANDEEP S. KULKARNI	Male	52		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
182	[illegible]	YOGESH H. KACHARE	Male	29		—	—	Instrument		12-03-2022 Fit	Not Applicable	Not Applicable		
183	[illegible]	VIVEK M. THALI	Male	38		—	—	Instrument		12-03-2022 Fit	Not Applicable	Not Applicable		
186	[illegible]	SANTOSH TEMGHARE	Male	38		—	—	Instrument		12-03-2022 Fit	Not Applicable	Not Applicable		
187	[illegible]	BHASKAR J. DHARAT	Male	37		—	—	Auto		12-03-2022 Fit	Not Applicable	Not Applicable		
188	–	PRADEEP S. SALUNKHE	Male	36		—	—	Security chief		12-03-2022 Fit	Not Applicable	Not Applicable		
191	[illegible]	ALAYA S. KHATUA	Male	42		—	—	Engg. Stores		12-03-2022 Fit	Not Applicable	Not Applicable		
192	[illegible]	SUMIT JAISWAL	Male	35		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon
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Regd. No. 51279

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Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employ-ment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupa-tion	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspen-sion issued to worker	Signature with Certifying Surgeon
[illegible]	[illegible]	MILIND G. PATIL	Male	47		—	—	Instrument		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	SHIVSHANKAR INGALE	Male	29		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	VISHAL [illegible]	Male	[illegible]		—	—	Civil		12-03-2022 Fit	Not Applicable	Not Applicable		
242	–	VIJAY KUMAR BHATT	Male	[illegible]		—	—	Tech Services		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	NILESH R. CHAUDHARI	Male	[illegible]		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	KIRAN K. PATIL	Male	[illegible]		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	YOGESH N. PATIL	Male	[illegible]		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	PANKAJ KUMAR JHA	Male	[illegible]		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	PAVAN DESHMUKH	Male	25		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	SHRIRAM PAWAR	Male	[illegible]		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	SHAILESH CHAUDHARI	Male	41		—	—	EDP		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	MANISH TIWARI	Male	44		—	—	EDP		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	HEMANT S. ATHALYE	Male	[illegible]		—	—	Production		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	PAVANKUMAR SUBBARAO A.	Male	[illegible]		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	RAMAKANT D. GAUTAM	Male	[illegible]		—	—	Customs & Excise		12-03-2022 Fit	Not Applicable	Not Applicable		
[illegible]	[illegible]	KALYAN S. KHARADE	Male	28		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

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Note : (i) Column 8. Detailed summary of reason for transfer of discharge should be stated.   Note : (ii) Column 11. should be expressed as Fit/Unfit/Suspended.

Sr. No.	I.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
285	[illegible]	[illegible]	Male	33		—	—	Mechanical		12-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
287	[illegible]	HARIHARAN SUBRAMANIAN IYER	Male	47		—	—	Custom & Excise		12-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
289	[illegible]	NAVEEN PUJARI	Male	33		—	—	Electrical		12-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
291		RAJENDRA CHANDRA	Male	[illegible]		—	—	Security		13-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
292	[illegible]	KISHAN S. PATIL	Male	[illegible]		—	—	Custom & Excise		13-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
300	[illegible]	GOVIND S. JAGADALE	Male	25		—	—	Production		13-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
306	[illegible]	Mangesh H. Dandekar	Male	31		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
308	[illegible]	[illegible]	Male	[illegible]		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
310	[illegible]	Kumar D. Thakur	Male	29		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
311	[illegible]	Jagdish R. Mane	Male	22		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
313	[illegible]	[illegible] Jadhav	Male	27		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
314	[illegible]	[illegible] Mahapatra	Male	27		—	—	Mechanical		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
321	[illegible]	Laxman K. [illegible]	Male	25		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
322	[illegible]	[illegible]	Male	24		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
324	[illegible]	Milind P. Gadre	Male	46		—	—	Commercial		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
332	[illegible]	Abhijeet A. [illegible]	Male	32		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
337	[illegible]	Atul V. Bhagat	Male	31		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]
338	[illegible]	Rahul J. Soni	Male	44		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		[illegible]

Name of Certifying Surgeon

Dr. Pankaj Shah Regd. No. 51279

FORM NO. 7

HEALTH REGISTER

From :- 14-03-2022 To 14-03-2023

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Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated. Note : (ii) Column 11, should be expressed as Fit/Unfit/Suspended.

Sr. No.	F.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work sate period of suspension with detailed	Certified fit to resume duty or with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
339	[illegible]	Laxman N. Rawat	Male	32		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
340	[illegible]	Vinit Mhatre	Male	32		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
341	[illegible]	Suraj Jagtap	Male	30		—	—	Laboratory		14-03-2022 Fit	Not Applicable	Not Applicable		
342	[illegible]	Praful Khatri	Male	26		—	—	Laboratory		14-03-2022 Fit	Not Applicable	Not Applicable		
343	[illegible]	Asim N. Patil	Male	30		—	—	Instrument		14-03-2022 Fit	Not Applicable	Not Applicable		
347	[illegible]	Vamshi Shashidhar Reddy	Male	30		—	—	Mechanical		14-03-2022 Fit	Not Applicable	Not Applicable		
348	[illegible]	Bhushan C. Patil	Male	31		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
350	[illegible]	Laxmaan Sukumar	Male	29		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
360	[illegible]	Yogesh M. Dhongare	Male	25		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
361	[illegible]	Nimish C. Gadhave	Male	25		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
362	[illegible]	Sushant Sonar	Male	28		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		
364	[illegible]	Anil Kumar Gupta	Male	38		—	—	Warehouse		14-03-2022 Fit	Not Applicable	Not Applicable		
366	[illegible]	Aniket A. Patil	Male	34		—	—	Mechanical		14-03-2022 Fit	Not Applicable	Not Applicable		
370	[illegible]	Siddhesh R. Ghorat	Male	28		—	—	Laboratory		14-03-2022 Fit	Not Applicable	Not Applicable		
382	[illegible]	Sudhir R. Rane	Male	49		—	—	Purchase		14-03-2022 Fit	Not Applicable	Not Applicable		
383	[illegible]	Sushil N. Kawle	Male	37		—	—	Purchase		14-03-2022 Fit	Not Applicable	Not Applicable		
388	[illegible]	Ganesh R. Kawade	Male	32		—	—	Production		14-03-2022 Fit	Not Applicable	Not Applicable		
389	[illegible]	Kamalkumar L. Pujari	Male	34		—	—	Electrical		14-03-2022 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. Pankaj Shah   Regd. No. 51279

FORM NO. 7
HEALTH REGISTER

From :- 14-03-2022 To 14-03-2023

(In respect of persons employed in occupations declared to be dangerous operations under Sections 87)

Note : (i) Column 8, Detailed summary of reason for transfer of discharge should be stated.   Note : (ii) Column II, should be expressed as Fit/Unfit/Suspended.

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
[illegible]	[illegible]	[illegible] Paul	Male	[illegible]		—	—	Mechanical		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible] A. [illegible]	Male	[illegible]		—	—	Purchase		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]
[illegible]	[illegible]	[illegible]	Male	[illegible]		—	—	Purchase		14-03-2022 Fit	Not Applicable	Not Applicable		[signature]

ANNEXURE – IX

Budget For Environment Monitoring and Control		
SR. NO.	**HEADS**	**AMOUNT (Rs IN LACS)**
1	Chemicals for ETP, RO & MEE plant operation	73
2	ETP Operation & Maintenance	109
3	Environmental monitoring	32
4	Hazardous waste disposal	107
5	AMC for OCEMS & ETP on line analyzers	12
TOTAL		334

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 T2, 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 वने व पर्यावरण मंत्रालयाने आय.जी. पेट्रोकेमिकल्स लि. टी-२, एम. आय. डी. सी. तळोजा - ४१०२०८ लि. रायगड येथील कारखान्याच्या नियोजित यंत्रसुधारणा व त्यामुळे होणाऱ्या उत्पादन वाढीस मान्यता दिली आहे. सदरहू 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 संमती 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

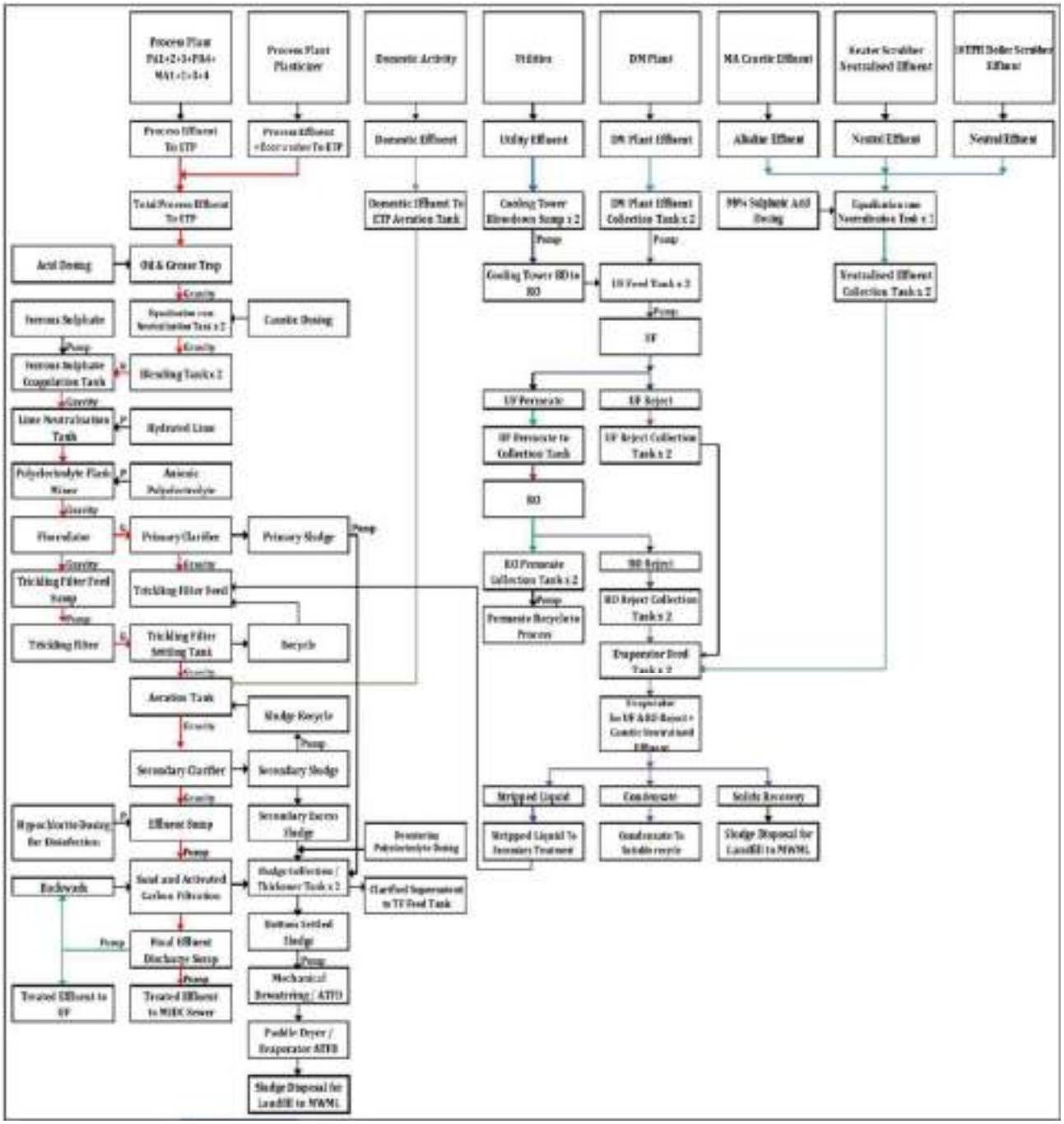
Centrifuge and Filter Press systems are provided for sludge handling. Sludge is collected in bags and filtrate has taken to treatment again in ETP system. Sludge is disposed to sludge disposal site CHWTSDF, Taloja.

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

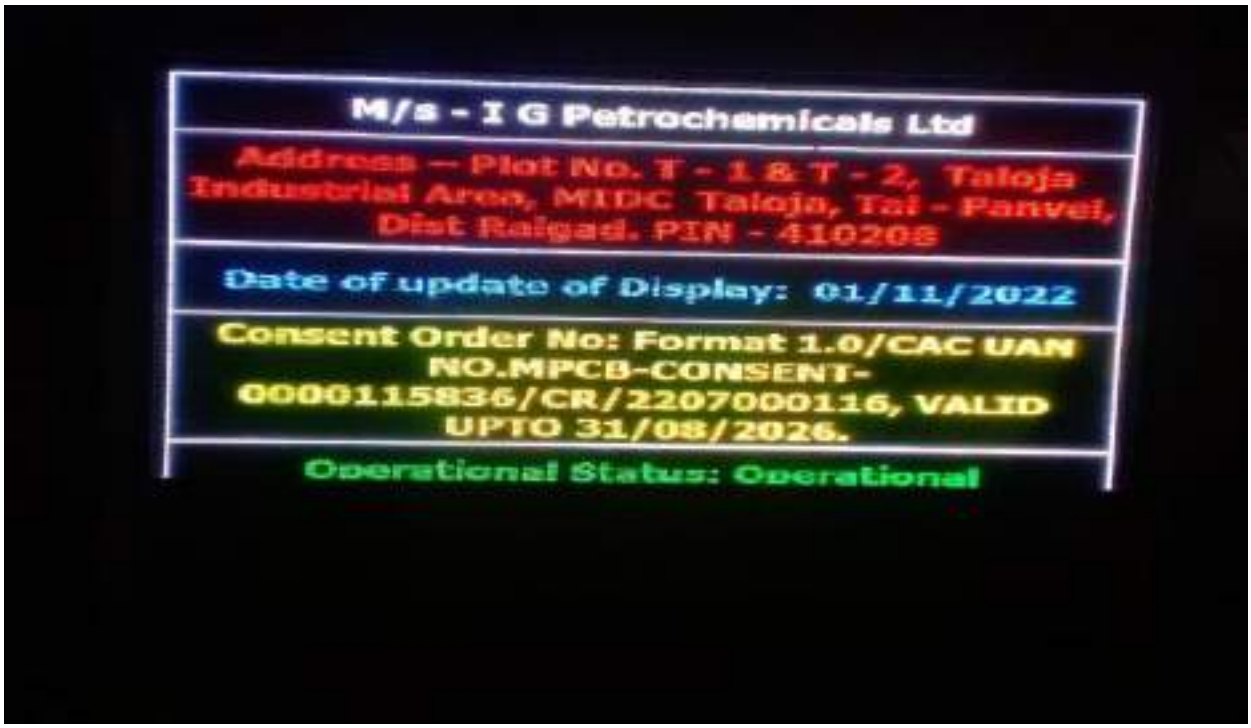
22	Final treated effluent sump (UF Feed)	10 x 10 x 3	1	300	RCC covered tank
23	UF Permeate (RO 1 feed)				RCC covered tank
24	RO Permeate tank	8 x 8 x 3	4	768	RCC covered tank
25	RO Reject Stage 2	5 x 4 x 3	2	120	RCC covered with lining /tiling
26	Evaporator plan area	25 x 7.5	1	187.5	

ETP FLOW DIAGRAM



ANNEXURE – 12

PHOTOGRAPHS OF MPCB DIGITAL DISPLAY BOARD



Hazardous chemicals

Hazardous Chemicals	Quantity MT	Purpose
Ortho Xylene	10752	Raw Material
Diesel	50	Fuel
Furnace Oil	250	Fuel
Caustic Lye	50	Treatment Chemical

Air Emission

Source	Fuel	APCD
DG Set 2000/2500 KVA	Diesel	Stack designed for sufficient dispersion
De-dusting units	Not Applicable	Bag Filters
MA Bagging	Not Applicable	Scrubber

Air Emission

Source	Limits	Monitored Data
Hot Oil Heater-I	CO -200, NO - 450, PM - 100, SO2 - 1700 mg/Nm3	CO- 18.20, NO- 169.58, PM-15.48, SO2- 24.27 mg/Nm3
Hot Oil Heater-II	CO -200, NO - 450, PM - 100, SO2 - 1700 mg/Nm3	CO- 24.30, NO- 128.67, PM-32.92, SO2- 133.77 mg/Nm3
Hot Oil Heater-IV	CO -200, NO - 450, PM - 100, SO2 - 1700 mg/Nm3	CO- 3.22, NO- 5.15, PM-2.71, SO2- 22.64 mg/Nm3

Effluent Discharge

Source of Effluent	Discharge With Quantity	Treatment Method
Industrial Effluent - 791 cum/day	Through MIDC Sewer To CETP 189.3 cum/day	ETP / Reverse Osmosis / Multiple Effect Evaporator - 791 m3/day

Effluent Discharge Monitoring

Parameter	Unit	MPCB Limit / Actual	
pH	–	5.5 to 9.0	7.08
TSS	mg/l	100	25.29
COD	Mg/lit	250	86.07
BOD	Mg/lit	100	26.03

Effluent Discharge

* OCEMS connectivity details (Date of installations & operations status) – 22/09/2015;Operational

ANNEXURE - XIII

Sustainability

Mumbai Waste Management Limited

CERTIFICATE OF MEMBERSHIP

M/s - I. G. Petrochemicals Ltd.

is a registered member of

CHW-TSDF at MIDC - Taloja for

safe and secure disposal of

Hazardous waste.

Membership No: MWML-HZW - TAL - 946

This Certificate is valid up to 31st May 2023.

Onkar Kulkarni
Manager - BMD

Somnath Malgar
Director

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-0000029981

Submitted On:
29-06-2022

Submitted for Year:
April 2021 to March 2022

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*
FORMAT 1.0/CAC/UAN NO. 0000101662/CO-2107000003	Jul 1, 2021	Aug 31, 2021

2. Name of the authorised person
MR. AJIT BAGADE

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

Telephone	*Fax*	*Email*
2268479100	2227410192	abagade@igpetro.com

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

*Product Type **	*Product Name **	*Consented Quantity*	*Actual Quantity*	*UOM*
Petrochemicals	Phthalic Anhydride	222110.0000	200013.55	MT/A
Petrochemicals	Benzoic Acid	1500.0000	884	MT/A
Petrochemicals	Maleic Anhydride	7660.0000	6352.375	MT/A
Petrochemicals	Di Ethyl Phthalate/ Di Methyl Phthalate	12600.0000	1139.056	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	5467.800	3613.20	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	90.000	55.94	MTA
5.1 Used or spent oil	Used or spent oil	45.000	16.8	MTA
15.2 Discarded asbestos	Discarded asbestos	43.000	2.54	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1240.000	1228	numbers/anum
36.2 Spent carbon or filter medium	Spent carbon	93.700	9.69	MTA

35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	18.000	3.264	MTA
1.4 Organic residues	Organic residue	48.000	110.89	MTA
37.3 Concentration or evaporation residues	Concentration or evaporation residue	3000.000	402.71	MTA
37.1 Sludge from wet scrubbers	Sludge from wet scrubber	5.000	2.73	MTA
Other Hazardous Waste	Discarded bags used for hazardous chemicals	2.500	1.82	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incineration & flue gas cleaning residue	9.500	6.25	MTA
Other Hazardous Waste	Phthalic acid	800.000	19.32	MTA

2. Quantity dispatched category wise.

Type of Waste	***Quantity of waste***	***UOM***	***Dispatched to***	***Facility Name***
1.6 Spent catalyst and molecular sieves	55.94	MTA	Disposal Facility	Mumbai Waste Management Ltd
5.1 Used or spent oil	16.8	MTA	Recycler or Actual user	Poonam Petrochem Pvt. Ltd.
15.2 Discarded asbestos	2.54	MTA	Disposal Facility	Mumbai Waste Management Ltd
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1228	numbers/anum	Disposal Facility	Mumbai Waste Management Ltd
36.2 Spent carbon or filter medium	9.68	MTA	Disposal Facility	Mumbai Waste Management Ltd
35.3 Chemical sludge from waste water treatment	3.2	MTA	Disposal Facility	Mumbai Waste Management Ltd
1.4 Organic residues	110.89	MTA	Disposal Facility	Mumbai Waste Management Ltd
37.3 Concentration or evaporation residues	401.44	MTA	Disposal Facility	Mumbai Waste Management Ltd
37.1 Sludge from wet scrubbers	2.73	MTA	Disposal Facility	Mumbai Waste Management Ltd
37.2 Ash from incinerator and flue gas cleaning residue	6.25	MTA	Disposal Facility	Mumbai Waste Management Ltd
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1.82	MTA	Disposal Facility	Discarded bags used for hazardous chemicals send to Mumbai waste Management Limited
Other Hazardous Waste	19.32	MTA	Disposal Facility	Phthalic acid send to Mumbai Waste Management Limited

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	3611.51	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	1.69	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	numbers/anum
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	0.064	MTA
1.4 Organic residues	Organic Residue	0	MTA
37.3 Concentration or evaporation residues	Concentration or evaporation residue	1.27	MTA
37.1 Sludge from wet scrubbers	Sludge from wet scrubber	0	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incinerator and flue gas cleaning	0	MTA
Other Hazardous Waste	Discarded bags used for hazardous chemicals	0	MTA
Other Hazardous Waste	Phthalic acid	0	MTA

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

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

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	India	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	2022-06-27	President - Operations

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.MPCB-CONSENT-0000115836/CR/2207000116

Date: 02/07/2022

To,
M/s I G Petrochemicals Ltd.,
Plot Nos. T-1, T-2, T-2/1, V-11, V-12, V-13, V-14 & V-45 Taloja Industrial Area,
MIDC,Taloja, Tal. Panvel, Dist. Raigad - 410 208.

Your Service is Our Duty

Sub: Grant of Renewal of Consent to Operate under Red/LSI

Ref:
1. Environment Clearance accorded vide No. F. No. J-11011/ 73/ 2016-IAII(I) dtd. 18/07/2017.
2. Environment Clearance amendment accorded vide No. F. No. J-11011/ 73/ 2016-IAII(I) dtd. 20/02/2018.
3. Consent to Operate granted vide No. Format 1.0/ CC/ UAN No. 0000101662/ CO-2107000003 dtd. 01/7/2021
4. Minutes of Consent Appraisal Committee meeting held on 20/5/2022

Your application No.MPCB-CONSENT-0000115836 Dated 15.06.2021

For: grant of Consent to Renewal 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 renewal is granted for a period up to 31/08/2026**
2. **The capital investment of the project is Rs.1169.8758 Crs. (As per C.A Certificate submitted by industry Existing C.I. Rs. 1167 Crs + Increase in C.I. Rs. 2.8758 Crs)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Di Ethyl Phthalate/ Di Methyl Phthalate	12600	MT/A
2	Maleic Anhydride	7660	MT/A
3	Phthalic Anhydride	222110	MT/A
4	Benzoic Acid	1500	MT/A
5	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 607 CMD treated effluent into process, for cooling tower make up, fire-fighting, utility purposes etc. and discharge 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	Boilers (3 Nos.)	1	As per Schedule -II
2	S-2 (A&B)	PA- I & II -Hot Oil Heaters	1	As per Schedule -II
3	S-3	PA-I Scrubber	1	As per Schedule -II
4	S-4	PA-II Scrubber	1	As per Schedule -II
5	S-5	PA-III Scrubber	1	As per Schedule -II
6	S-6	PA De-Dusting-1	1	As per Schedule -II
7	S-7	PA De-Dusting 2	1	As per Schedule -II
8	S-8	PA De-Dusting 3	1	As per Schedule -II
9	S-9	MA Bagging	1	As per Schedule -II
10	S-10	MA Flaker	1	As per Schedule -II
11	S-11	DG Set (2000 KVA)	1	As per Schedule -II
12	S-12	PA-IV Scrubber	1	As per Schedule -II
13	S-13	PA-IV Scrubber	1	As per Schedule -II
14	S-14	PA De-Dusting 4	1	As per Schedule -II
15	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.	9.0	MT/M	NA	Sale to Auth. Party/ CHWTSDF
2	Biological sludge from waste water treatment	35	MT/M	Drying	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	455.65	MT/M	Incineration	Used as fuel in Oil Heater/ Thermal Oxidizer
2	1.4 Organic residues	150	MT/A	Incineration	CHWTSDF
3	1.6 Spent catalyst and molecular sieves	7.5	MT/M	Recycle/ Incineration	Return to manufacturer/ CHWTSDF
4	5.1 Used or spent oil	3.75	MT/M	Recycle	Sale to Auth. Party
5	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	104	No/M	Recycle*	Sale to Auth. Party having permission under Rule 9/ CHWTSDF
6	35.3 Chemical sludge from waste water treatment	1.5	MT/M	Secured Landfill	CHWTSDF
7	37.2 Ash from incinerator and flue gas cleaning residue	0.8	MT/M	Secured Landfill	CHWTSDF
8	37.3 Concentration or evaporation residues	250	MT/M	Secured Landfill after treatment	CHWTSDF
9	36.2 Spent carbon or filter medium	7.81	MT/M	Incineration	CHWTSDF
10	15.2 Discarded asbestos	3.6	MT/M	Secured Landfill	CHWTSDF
11	37.1 Sludge from wet scrubbers	0.42	MT/M	Secured Landfill after treatment	CHWTSDF
12	33.1 Discarded Bags used for hazardous chemicals	0.21	MT/M	Incineration	CHWTSDF
13	35.2 Spent ion exchange resin containing toxic metals	7500	Ltr/A	Incineration	CHWTSDF
14	By-product Sodium Sulphate	75	MT/M	Recycle*/Landfill	Sale to Auth. Party having permission under Rule 9/ CHWTSDF
15	By-product Phthalic Acid	66.67	MT/M	Recycle*/Landfill	Sale to Auth. Party having permission under Rule 9/ CHWTSDF

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
16	By-product Mono Ester Salts	250	MT/M	Recycle*/Landfill	Sale to Auth. Party having permission under Rule 9/ 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, Electronic wastes	600.00	Kg/M	Sale to Auth. E waste handler/ 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 and maintain ETP so as to achieve Consented standards.
14. Industry shall adopt Cleaner fuel in place of Furnace Oil in compliance with Board's Circular dtd. 20/02/2020.
15. Industry shall comply with the conditions stipulated in Environment Clearance accorded vide No. F. No. J-11011/ 73/ 2016-IAII(I) dtd. 18/07/2017 and amendment dtd. 20/02/2018.
16. The applicant shall ensure disposal of by-products to Actual user having permission under Rule 9 of Hazardous and Other Wastes(Management & Transboundary Movement) Rules 2016.
17. This consent is issued as per the minutes of Consent Appraisal Committee meeting held on 20/5/2022

महाराष्ट्र

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	10488892.00	MPCB-DR-6679	01/07/2021	RTGS
2	50000.00	TXN2206001444	14/06/2022	Online Payment

Total fee required to pay Rs. 11713758 (5 term fee + C to E for increased CI). Industry has paid consent fee of Rs. 11830310/- (Rs. 10488892/- + Rs. 50000/- along with application + Rs. 1291418/- balance fee of Rs. 1291418 as per existing consent to operate dated 01/7/2021). Now, Rs. 116552/- will remain balance with the Board.

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 799 CMD consisting of Primary, Secondary, Tertiary treatment followed by UF, Two stage RO, 4 effect MEE & ATFD for the treatment of 791 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 to 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] The 607 CMD treated effluent (including 36 CMD domestic effluent) shall be recycled into process, for cooling tower make up, fire-fighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent into CETP with water metering system for further treatment & disposal. In no any case treated/untreated effluent shall find its way outside the factory premises directly or indirectly.

D] Industry shall ensure that the OCEMS is equipped with remote calibrating facility and online monitoring data is connected to MPCB & CPCB Servers.

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

B] Overflow is connected to Aeration tank of ETP.

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	733.00

4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	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	LSHS	27 MT/Day	1.20	648.00
S-2	Hot Oil Heaters (2A & 2 B)	Stack	31	LSHS	4MT/Day	4.50	96.00
	Hot Oil Heaters (2 Nos.)			Distillation Residue	7MT/Day	0.00	0.00
S-3 to S-5	Process Vents PA- I, II & II	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	Wet Scrubber	31	HSD	2.5MT/Day	1.00	50.00
				Distillation Residue	4.2MT/Day	0.00	0.00
S-13	Process Vent PV-IV	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:

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)

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	2400000	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	31/8/2026	28/2/2027
2	C2O	200000	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	31/8/2026	28/2/2027

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 Plastic 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 Plastic 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 Plastic 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. Specific Conditions for storage, Handling and Disposal of Waste from Electrical & Electronic equipment (WEEE):

   1. **Collection of WEEE** - The applicant must provide appropriate and dedicated vehicles duly identified as per the norms for transportation of Hazardous Waste. The applicant shall obtain all the required permits for transportation of WEEE from competent authority. The applicant shall ensure the safe transport of the WEEE without any spillage during transportation.

      Storage for disassembled parts: The applicant must provide appropriate storage for disassembled spare parts from WEEE. Some spare parts (e.g. motors and compressors) will contain oil and/or other fluids. Such part must be appropriately segregated and stored in containers that are secured such that oil and other fluids cannot escape from them. These containers must be stored on an area with an area with an impermeable surface and a sealed drainage system.

2. **Storage for other components and residues:**Other components and residues arising from the treatment of WEEE will need to be contained following their removal for disposal or recovery. Where they contain hazardous substances they should be stored on impermeable surface and in appropriate containers or bays with weatherproof covering. Containers should be clearly labelled to identify their contents and must be secured so that liquids, including rain water cannot enter them. Components should be segregated having regard to their eventual destinations and the compatibility of the component types. All batteries should be handled and stored having regard to the potential fire risk associated with team.
3. **Balances :** WEEE Guidelines also requires that sites for handling of WEEE have "balances to measure the weight of the segregated waste'. The objective is to ensure that a record of weights can be maintained of WEEE entering a facility and components and materials leaving each site (together with their destinations). The nature of the weighing equipment should be appropriate for the type and quantity of WEEE being processed.
4. Plastic, which cannot be recycled and is hazardous in nature, is recommended to be land filled in nearby CHWTSDF.
5. Ferrous and nonferrous metal recycling facilities fall under the purview of existing environmental regulations for air, water, noise, land and soil pollution and generation of hazardous waste and the same should be followed.
6. CFCS should be either reused or incinerated in common hazardous waste Incineration facilities at CHWTSDF.
7. Waste Oil should be either reused or incinerated in common hazardous waste incineration facilities.
8. PCB's containing capacitors shall be incinerated in common hazardous waste incineration facilities at CHWTSDF.
9. Mercury recovery and lead recycling facilities from batteries fall under the Hazardous & Other Wastes (M & TM) Rules, 2016.
10. Existing environmental regulations for air; water; noise, land and soil pollution and generation of hazardous waste and the same should be followed. In case Mercury or lead recovery is very low, they can be temporarily stored at e-waste recycling facility and later disposed in TSDF.
11. The industry shall maintain records of the e-waste purchased, processed in Form-2 and shall file annual returns of its activities of previous year in Form-3 as per Rules 11(9) & 13(3)(vii) of the E-Waste(M) Rules, 2016; on or before 30th day of June of every year.

10. The Energy source for lighting purpose shall preferably be LED based
11. 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
12. 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.

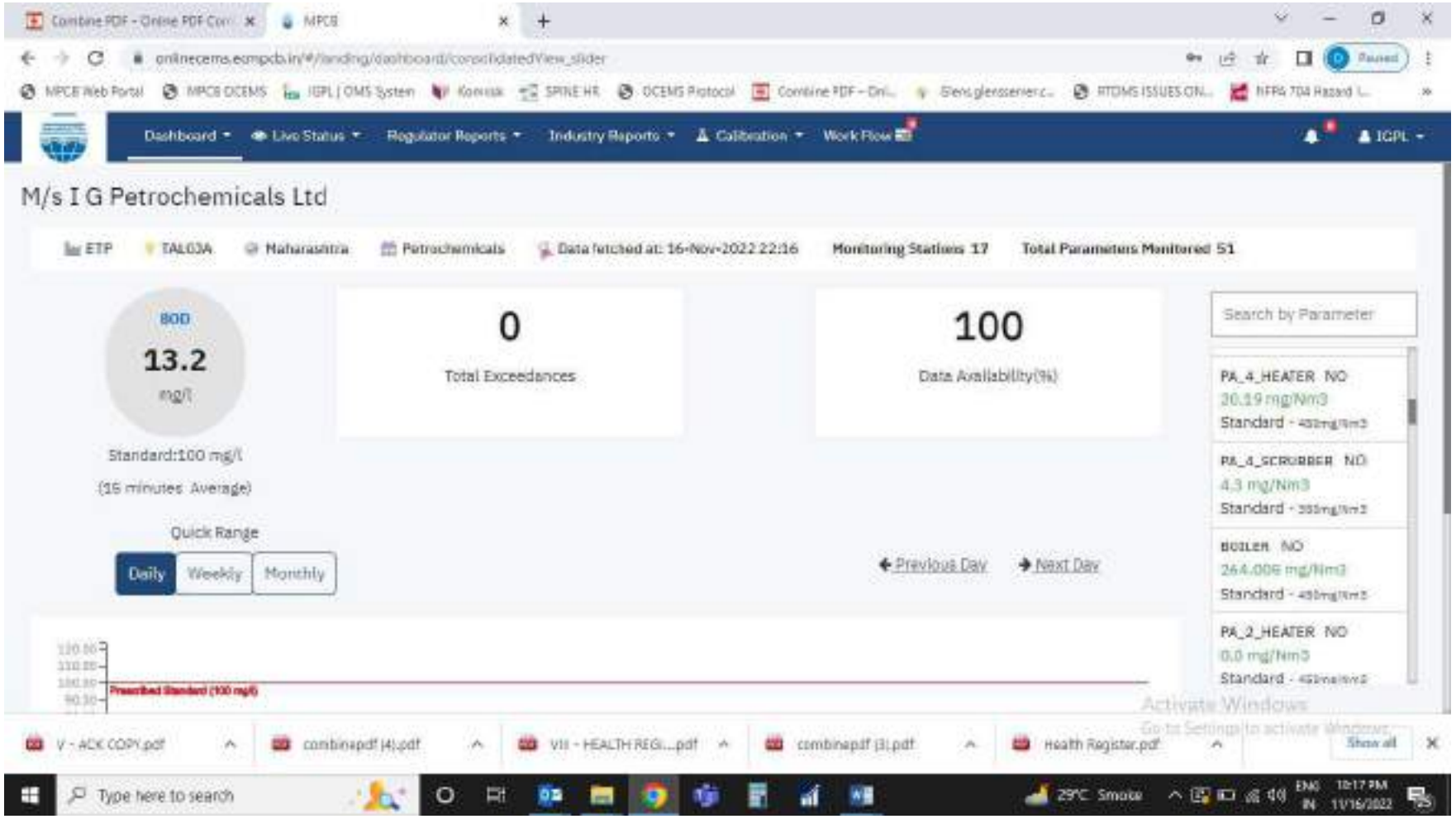
13. The applicant shall maintain good housekeeping.
14. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
15. 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.
16. 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.
17. 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).
18. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
19. 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.
20. 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.
21. 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.
22. The PP shall provide personal protection equipment as per norms of Factory Act
23. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
24. 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.
25. 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.

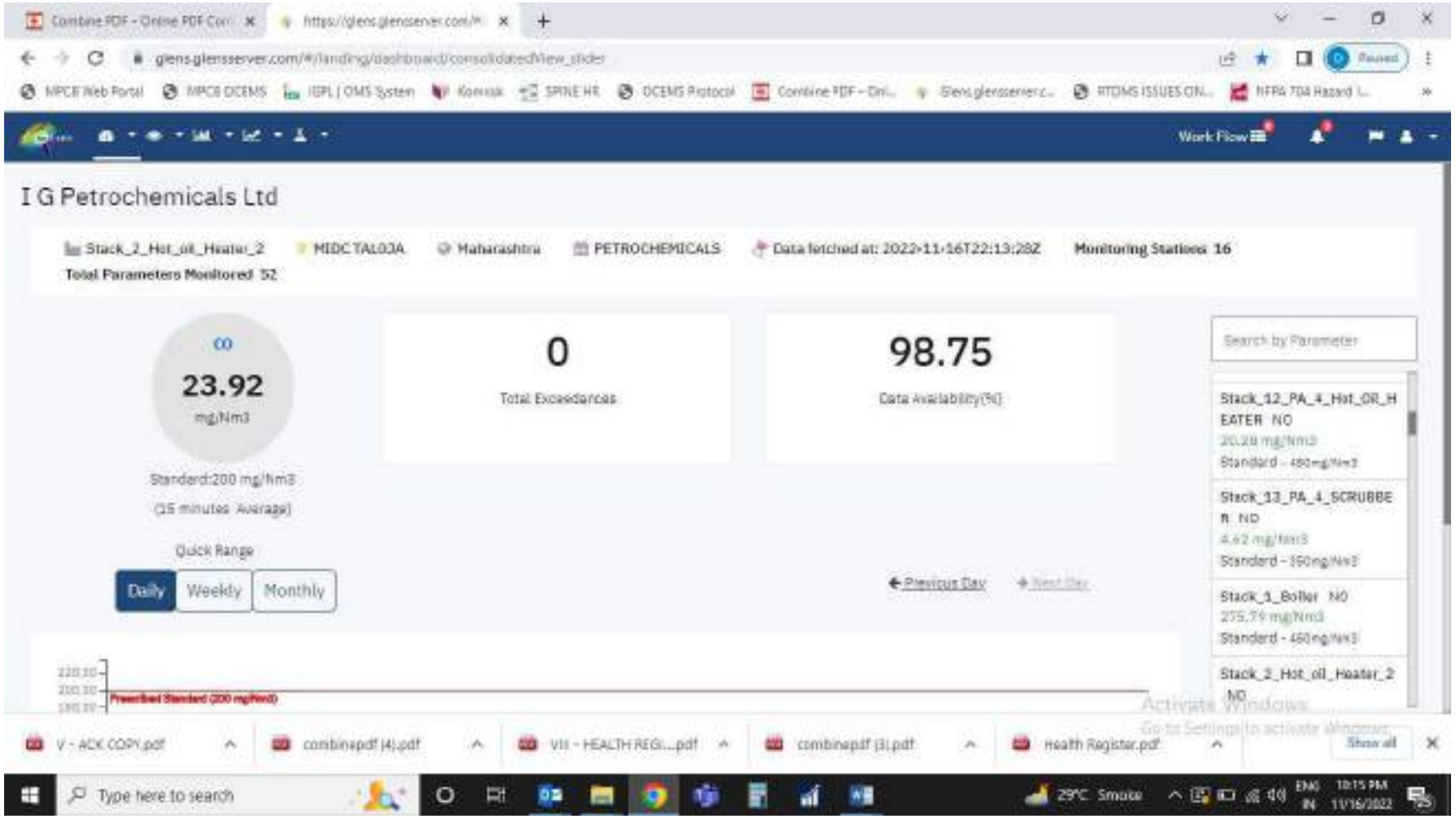
26. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used 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.
27. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
28. 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).
29. 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.
30. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
31. The industry should not cause any nuisance in surrounding area.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.

39. 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.
40. 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.
41. 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).
42. 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.

This certificate is digitally & electronically signed.

ANNEXURE – 16 – OCEMS DASHBOARD

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MIDC TAL03A
Maharashtra
PETROCHEMICALS
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Monitoring Stations 16
Total Parameters Monitored 52
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23.92
mg/Nm3
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(15 minutes Average)
0
Total Exceedances
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Data Availability(%)
Search by Parameter
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Standard - 480mg/Nm3
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4.62 mg/Nm3
Standard - 150mg/Nm3
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275.79 mg/Nm3
Standard - 460mg/Nm3
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Daily
Weekly
Monthly
Previous Day
Next Day
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Health Register.pdf
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11/16/2022

ANNEXURE - XVII

I G PETROCHEMICALS LIMITED
DETAILS OF EXPENDITURE ON ENVIRONMENT SOCIAL RESPONSIBILITY
PERIOD 01.04.2021 TO 30.09.2022

SR. NO.	PAID TO	PERIOD		AMOUNT
		FROM	TO	
	TALOJA FACTORY			
1	**Maintenance of Trees (By K D Patil)** (At Koyanavele/ghotcamp,Bhoirwada Road, Nitlas Village & FG Glass MIDC Road Divider)			
	Water supply Thru Water Tanker	4/1/2022	4/30/2022	76,700.00
		5/1/2022	5/31/2022	76,700.00
		6/1/2022	6/30/2022	76,700.00
		7/1/2022	7/31/2022	76,700.00
	Trees Plantation work at Plot no OS-44 For DOP Project			1,500,000.00
	TOTAL-Expenses			**1,806,800.00**

I G PETROCHEMICALS LIMITED

DETAILS OF EXPENDITURE ON CORPORATE SOCIAL RESPONSIBILITY

PERIOD 01.04.2022 TO 30.09.2022

ANNEXURE - XVIII

SR. NO.	PAID TO	AMOUNT
A	**BOMBAY OFFICE**	
1	**INTERNATION SOCIETY FOR KRISHNA CONSCIOUSNESS**	1,000,000.00
	(for Goseva)	
2	**Saraswati shishu mandir Trust**	
	CIT (S) 12A (A) 94/95 MADHURA-/96 DTD 06.02.95	53,000.00
	Donation	
3	INTERNATION SOCIETY FOR KRISHNA CONSCIOUSNESS	41,000.00
	(Food for poor people)	
4	SHAYONA CHARITABLE TRUST	500,000.00
	(TOWARDS DONATION)	
		1,594,000.00
B	**TALOJA FACTORY**	
1	**Param Shantidham Vridhashram**	
	Taloja MIDC , Opposite -Tecnova Co, Post - Koyalnawele, Taluka-Panvel	30,000.00
	PAN:- AAATP 3007C , DIT (E) /MC/80G/2930/2009-10	30,000.00
	(Registration No 12962 Income Tax Act 1961 U/S 80G)	30,000.00
		30,000.00
		30,000.00
		30,000.00
	Total - (B)	180,000.00
	TOTAL	1,774,000.00

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

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi-110 003

Dated: 6th October, 2022

To,

M/s. IG Petrochemicals Limited,
MIDC Taloja, Tehsil: Panvel,
Dist.: Raigad, Maharashtra.

Sub: Proposed expansion of Petrochemical manufacturing facility located at Plot No.: T-2, V-45, V-11 to V-14, T-2/1, T-1, MIDC Taloja, Tehsil: Panvel, Dist.: Raigad, Maharashtra by M/s. IG Petrochemicals Limited– Amendment in Environmental Clearance reg.

Sir,

This refers to your online proposal No. IA/MH/IND2/284398/2022 dated 10th August, 2022 for amendment in the environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment in the environmental clearance granted by the Ministry vide EC Identification No. EC22A020MH142817 (File No. J-11011/73/2016-IA-II(I)) dated 14th March, 2022 for Proposed expansion of Petrochemical manufacturing facility located at plot No.: T-2, V-45, V-11 to V-14, T-2/1, T-1, MIDC Taloja, Tehsil Panvel, District Raigad, State Maharashtra by M/s. IG Petrochemicals Limited.

3. The project proponent has requested for amendment in the EC with the details are as under.

S. N.	Para of EC	Details as per EC dated 14th March, 2022 (From)	To be revised (Read as)	Justification/ Reasons
1	Para- 17 and 22 (A) Specific condition i	Industry shall install solar power of at least 10% of its total power requirement within plant/ nearby villages as a part of EMP.	Industry shall install solar power of at least 16% of the power requirement of proposed expansion project within plant.	Power requirement for proposed expansion project is 2750 KW. Proposal for installing solar power unit on warehouse roof (4288 m^2 area) which will generate approx. 400 KW. (16% of proposed expansion power requirement). Industry generates power from waste steam generated from exothermic heat of reaction (green power) and is self-sufficient in power requirement. The same will be applicable for expansion. No grid power required during normal plant operations.
2.	Para 22 (A) Specific Condition ii	The project proponent will treat and reuse the treated water within the factory	Industry shall restrict CETP discharge to existing 220 CMD and no additional effluent	The received EC is for proposed expansion (phase V) project. The 68 CMD effluent proposed to be generated in phase V expansion will be treated and recycled totally.

S. N.	Para of EC	Details as per EC dated 14th March, 2022 (From)	To be revised (Read as)	Justification/ Reasons
		and no waste or treated water shall be discharged outside the premises.	shall be discharged from the proposed expansion project. Additional treated effluent from the proposed expansion shall be treated and recycled completely.	
3.	Specific Condition vii	Process organic residue and spent carbon, if any, shall be sent to cement industries.	Process organic residue (distillation residues from Phthalic Anhydride and Maleic Anhydride process) shall be used as fuel in Thermic Fluid Heaters. Spent carbon and process organic residue from tank cleaning, if any, shall be sent to CHWTSDF.	**Residue from Distillation:** Existing (5467.8 MT/A) and Proposed (1316 MT/A) residue will be generated in Phthalic Anhydride and Maleic Anhydride distillation is utilized as fuel in thermic fluid heaters. The total saving of LSHS/ FO will be 3028 MT/year. Rule 9 (of Hazardous and Other Wastes (M and TM) Rules, 2016) exemption permission obtained from MOEFCC for use of distillation residue vide letter no. 23/47/2017-HSM dt. 19th September 2017.Residue use in thermic fluid heaters is approved by MPCB in the Consent to Operate granted to the unit for the last more than 30 years. Residue is handled (stored and consumed) under totally close system and has to be handled in hot condition (temperature- 150-170 deg C). Considering this, transportation of residue poses a major challenge. The nearest cement plant from the site is 600 km away. Hence, Residue from Distillation are proposed to be utilized as fuel in thermic fluid heaters. Details of residue generation and disposal submitted in EIA report and affidavit letter Ref. no. IGPL/JKS/2022/PA-V dated 11.02.2022. **Solids from Residue, Wash Water Tank Cleaning and Spent Carbon** Solids Generated from residue and wash water tanks cleaning. Estimated quantity post expansion is 190 MT/A. The generation is infrequent. Spent carbon generation is 93.7 MT/A which is very low. In

S. N.	Para of EC	Details as per EC dated 14th March, 2022 (From)	To be revised (Read as)	Justification/ Reasons
				existing facility, sent to CHWTSDF (Mumbai Waste Management ltd.) which is located 4 km away. Disposal to CHWTSDF be allowed as per existing Consent to Operate granted by MPCB. Nearest cement plant is located 600 km away and it is not viable. Details of residue generation and disposal submitted in EIA report and affidavit letter Ref. no. IGPL/JKS/2022/PA-V dated 11.02.2022.
4.	Specific Condition xii	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc.	Industry will develop 26% (29064.63 m^2) of the total plot area as greenbelt within the plant premises and 10% additional green belt shall be developed outside plant premises adjacent to the plant within MIDC Industrial area.	The plant has been in existence since 1990-91. Existing green belt area within plot is 12% (13313.45 m^2).6 m wide road around the plant is mandatory for safety purposes as per MIDC Development Control Rules and DISH requirements under Factories Act, 1941.With optimization within plot, PP proposes to increase green belt area within plot upto 26% (29064.63 m^2). Further optimization within plot is very difficult. Further, PP informed that to develop additional green belt area 10% (10218 m^2) adjacent to the plant within the MIDC Industrial Area. Agreement has been signed with MIDC for tree plantation. This will cover the plant with dense green belt on three sides. Total green belt area within and outside the plant (39282.63 m2) i.e. 36% of total plot area will be developed.

4. The proposal was considered by the EAC (Meeting ID: IA/IND2/13327/01/09/2022) in its meeting held during 01st - 02nd September, 2022 in the Ministry. After detailed deliberations, EAC recommended the proposal for amendment in EC as proposed by the project proponent at para 3 above subject to the following additional conditions:

(i) Industry shall obtain prior approval from SPCB for discharge of effluent to CETP. Industry shall discharge 220 KLPD of treated effluent to CETP after achieving the discharge norms specified by the SPCB. Online monitoring system shall be installed and connected to the CPCB and SPCB server.

(ii) Air emissions from Thermic Fluid Heaters shall be monitored and emission levels shall not exceed the prescribed limit.

(iii) For outside greenbelt development, PP shall take land for long term lease of 25 years and greenbelt shall be maintained properly.

(iv) PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

5. 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 14th March, 2022 as stated at paras 3 and 4 above, for the project Proposed expansion of Petrochemical manufacturing facility located at Plot No.: T-2, V-45, V-11 to V-14, T-2/1, T-1, MIDC Taloja, Tehsil: Panvel, Dist.: Raigad, Maharashtra by M/s. IG Petrochemicals Limited. However, all other terms and conditions as mentioned in EC Identification No. EC22A020MH142817 (File No. J-11011/73/2016-IA-II(I)) dated 14th March, 2022 shall remain unchanged.

6. This issues with approval of the competent authority.

(A. N. Singh)
Scientist-'E'

Copy to: -

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Raigad, Maharashtra
7. Guard File/Monitoring File/Parivesh portal/Record File

(A.N. Singh)
Scientist-'E'
E-mail: aditya.narayan@nic.in
Tel. No. 11-24642176

ANNEXURE - XXI

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000049121	29-09-2022

PART A

Company Information

Company Name	***Application UAN number***	
I. G. Petrochemicals Ltd.	0000115836	
Address		
Plot No. T- 1, T-2, T-2/1, V-11/12/13/14/45 , Taloja Industrial Area, MIDC, Taloja, Tal - Panvel, Dist. Raigad - 410208		
Plot no	***Taluka***	***Village***
T- 1, T-2, T-2/1, V-11/12/13/14/45	Panvel	Taloja Industrial Area
Capital Investment (In lakhs)	***Scale***	***City***
1169.8758	Large Scale Industry (LSI)	Panvel
Pincode	***Person Name***	***Designation***
410208	Mr. AJIT BAGADE	PRESIDENT - OPERATIONS
Telephone Number	***Fax Number***	***Email***
02268479103	02227410192	abagade@igpetro.com
Region	***Industry Category***	***Industry Type***
SRO-Taloja	Red	R57 Petrochemicals Manufacturing (including processing of Emulsions of oil and water)
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format 1.0/CAC/UAN No. MPCB-CONSENT-0000115836/CR/2207000116	2022-07-02
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2026-08-31	1992	Sep 30 2021 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Phthalic Anhydride	222110	200013.55	MT/A
Banzoic Acid	1500	884	MT/A
Maleic Anhydride	7660	6352.375	MT/A
Di Ethyl Phthalate	12600	1139.056	MT/A

By-product Information

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

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	733.00	448.90
Cooling	4776.00	2924.90
Domestic	44.00	26.90
All others	10.00	6.10
Total	5563.00	3406.80

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Quantity of trade effluent from the factory	791	339.49	CMD
Daily Quantity of sewage from the factory	36	31.67	CMD
Daily quantity of treated effluent	220	209.32	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	1.26	1.12	CMD
Benzoic Acid	0.000	0.0	CMD
Maleic Anhydride	0.000	0.1	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	0.923	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
FO (Furnace Oil)	11325	1595.81	MT/A
LSHS	0	5705.441	MT/A
HSD(High Speed Diesel)	3942	565.15	MT/A

Part-C

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	0	7.74	0	5.5 - 9.0	NA

Suspended Solids	5.15	24.67	0	100 mg/l	NA
BOD	7.92	37.83	0	100 mg/l	NA
COD	24.77	118.33	0	250 mg/l	NA
Oil & Grease	0	0	0	10 mg/l	NA
Total Dissolved Solid	264.09	1261.67	0	2100 mg/l	NA
Chloride	56.94	272	0	600 mg/l	NA
Sulphate	45.51	217.42	0	1000 mg/l	NA
TAN	0	0	0	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	100.81	66.23	0	100 mg/ Nm3	NA
Stack - I (Boiler)- SO2	67.12	44.10	0	1700 mg/Nm3	NA
Stack - I (Boiler) - NOX	22.66	14.89	0	450 mg/Nm3	NA
Stack - I (Boiler) - CO	7.35	4.83	0	200 mg/Nm3	NA
Stack - II- PA I Heater PM	5.02	57.99	0	100 mg/Nm3	NA
Stack - II- PA I Heater SO2	4.96	57.37	0	1700 mg/Nm3	NA
Stack - II- PA I Heater NOX	1.11	12.88	0	450 mg/ Nm3	NA
Stack - II- PA I Heater CO	0.35	4.04	0	200 mg/Nm3	NA
Stack - III- PA II Heater PM	4.47	35.92	0	100 mg/Nm3	NA
Stack - III- PA II Heater SO2	9.08	72.90	0	1700 mg/Nm3	NA
Stack - III- PA II Heater NOX	1.42	11.37	0	450 mg/Nm3	NA
Stack - III- PA II Heater CO	0.50	4.02	0	200 mg/Nm3	NA
Stack - IV- PA I Scrubber TOC	0	0	-	150 mg/Nm3	NA
Stack - IV- PA I Scrubber TPM	46.99	28.35	0	50 mg/Nm3	NA
Stack - IV- PA I Scrubber SO2	22.10	13.33	0	850 mg/Nm3	NA
Stack - IV- PA I Scrubber NOX	20.01	12.07	0	350 mg/Nm3	NA
Stack - V- PA II Scrubber TOC	0	0	-	270 ppm	NA
Stack - V- PA II Scrubber PM	37.24	27.91	0	100 ppm	NA
Stack - V- PA II Scrubber SO2	19.57	14.67	0	1700 mg/Nm3	NA
Stack - V- PA II Scrubber NOX	16.87	12.65	0	450 mg/Nm3	NA
Stack - VI- PA III Scrubber TOC	0	0	-	150 mg/Nm3	NA
Stack - VI- PA III Scrubber PM	32.03	26.32	0	100 mg/Nm3	NA
Stack - VI- PA III Scrubber SO2	16.51	13.57	0	1700 mg/Nm3	NA
Stack - VI- PA III Scrubber NOX	15.33	12.60	0	450 mg/Nm3	NA
Stack - VII- DG- PM	4.59	57.60	0	150 mg/Nm3	NA
Stack - VII- DG- SO2	4.68	58.71	0	1700 mg/Nm3	NA
Stack - VII- DG- NOX	1.19	14.95	0	710 mg/Nm3	NA
Stack - VII- DG- CO	0.31	3.94	0	150 mg/Nm3	NA

Stack - VIII- PA Dedusting 1 PM	3.95	62.96	0	150 mg/Nm3	NA
Stack - VIII- PA Dedusting 1TOC	0	0	-	150 mg/Nm3	NA
Stack - IX PA Dedusting 2 PM	3.59	58.25	0	150 mg/Nm3	NA
Stack - IX PA Dedusting 2 TOC	0	0	-	150 mg/Nm3	NA
Stack - X PA Dedusting 3 PM	51.85	60.71	0	150 mg/Nm3	NA
Stack - X PA Dedusting 3 TOC	0	0	-	150 mg/Nm3	NA
Stack - XI MA Bagging PM	5.70	23.75	0	150 mg/Nm3	NA
Stack - XI MA Bagging TOC	0	0	-	150 mg/Nm3	NA
Stack - XII MA Flaker PM	3.54	29.47	0	150 mg/Nm3	NA
Stack - XII MA Flaker TOC	0	0	0	150 mg/Nm3	NA
Stack - XIII PA 4 Heater PM	7.79	40.32	0	100 mg/Nm3	NA
Stack - XIII PA 4 Heater SO2	8.77	45.36	0	1700 mg/Nm3	NA
Stack - XIII PA 4 Heater NOX	2.26	11.70	0	450 mg/Nm3	NA
Stack - XIII PA 4 Heater CO	0.71	3.69	0	200 mg/Nm3	NA
Stack - XIV PA 4 Scrubber TOC	0	0	-	150 mg/Nm3	NA
Stack - XIV PA 4 Scrubber PM	38.23	28.23	0	50 mg/Nm3	NA
Stack - XIV PA 4 Scrubber SO2	20.67	15.27	0	850 mg/Nm3	NA
Stack - XIV PA 4 Scrubber NOX	18.75	13.85	0	350 mg/Nm3	NA
Stack - XV PA Dedusting 4 PM	4.33	54.66	0	150 mg/Nm3	NA
Stack - XV PA Dedusting 4 TOC	0	0	-	150 mg/Nm3	NA
Stack XVI DG 2050 KVA PM	4.68	58.02	0	150 mg/Nm3	NA
Stack XVI DG 2050 KVA SO2	4.10	50.80	0	1700 mg/Nm3	NA
Stack XVI DG 2050 KVA NOX	1.08	13.42	0	710 mg/Nm3	NA
Stack XVI DG 2050 KVA CO	0.27	3.35	0	150 mg/Nm3	NA

Part-D

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	3201.44	3613.20	MT/A
1.6 Spent catalyst and molecular sieves	0	55.94	MT/A
5.1 Used or spent oil	15.66	16.8	MT/A
15.2 Discarded asbestos	0.05	2.54	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	940	1228	Nos./Y
36.2 Spent carbon or filter medium	4.84	9.69	MT/A
35.3 Chemical sludge from waste water treatment	8.21	3.264	MT/A
37.2 Ash from incinerator and flue gas cleaning residue	0	6.25	MT/A
1.4 Organic residues	83.47	110.89	MT/A
37.3 Concentration or evaporation residues	255.03	402.71	MT/A
37.1 Sludge from wet scrubbers	11.56	2.73	MT/A

33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.79	1.82	MT/A
Other Hazardous Waste	0	19.32	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	8.21	3.264	MT/A

Part-E

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.	52.75	44.9	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)	63.8	178.34	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	3195.91	3611.51	MT/A

Part-F

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	3613.20	MT/A	Viscous (Disposal - Use as fuel heater)
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1228	Nos./Y	Solid (Disposal - Sent back to manufacturer)
35.3 Chemical sludge from waste water treatment	3.264	MT/A	Solid (Disposal-Sent to CHWTSDF)
36.2 Spent carbon or filter medium	9.68	MT/A	Solid (Disposal-Washed & Reused)
37.2 Ash from incinerator and flue gas cleaning residue	06.25	MT/A	Solid (Disposal-Washed & Reused)
1.6 Spent catalyst and molecular sieves	55.94	MT/A	Semi Solid (Disposal- Sent to CHWTSDF)
5.1 Used or spent oil	16.8	MT/A	Liquid (Disposal - Sale CPCB / MPCB authorized parties
15.2 Discarded asbestos	2.54	MT/A	Solid (Disposal-Sent to CHWTSDF)
1.4 Organic residues	110.89	MT/A	Solid (Disposal-Sent to CHWTSDF)
37.3 Concentration or evaporation residues	402.71	MT/A	Solid (Disposal-Sent to CHWTSDF)
37.1 Sludge from wet scrubbers	2.73	MT/A	Solid (Disposal-Sent to CHWTSDF)
Other Hazardous Waste	1.82	MT/A	Discarded bags used for hazardous chemicals- Solid (Disposal-Sent to CHWTSDF)
Other Hazardous Waste	19.32	MT/A	Solid (Disposal-Sent to CHWTSDF) Phthalic Acid

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Biological Sludge from ETP	178.34	MT/A	Solid (Disposal- CHWTSDF) - Landfilling
Other debris like insulation, packaging materials etc.	44.9	MT/A	Solid (Disposal- CHWTSDF)

Part-G

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)
RO permeate reused	113	0	0	0	0	0

Part-H

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	Efficient treatment provided.	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Optimization of Cooling Tower blowdown.	Water consumption reduction.	50

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Fuel changed from FO to LSHS and Natural Gas proposal is in advance stage.

Name & Designation

Mr Ajit Bagade (President- Factory Operations)

UAN No:

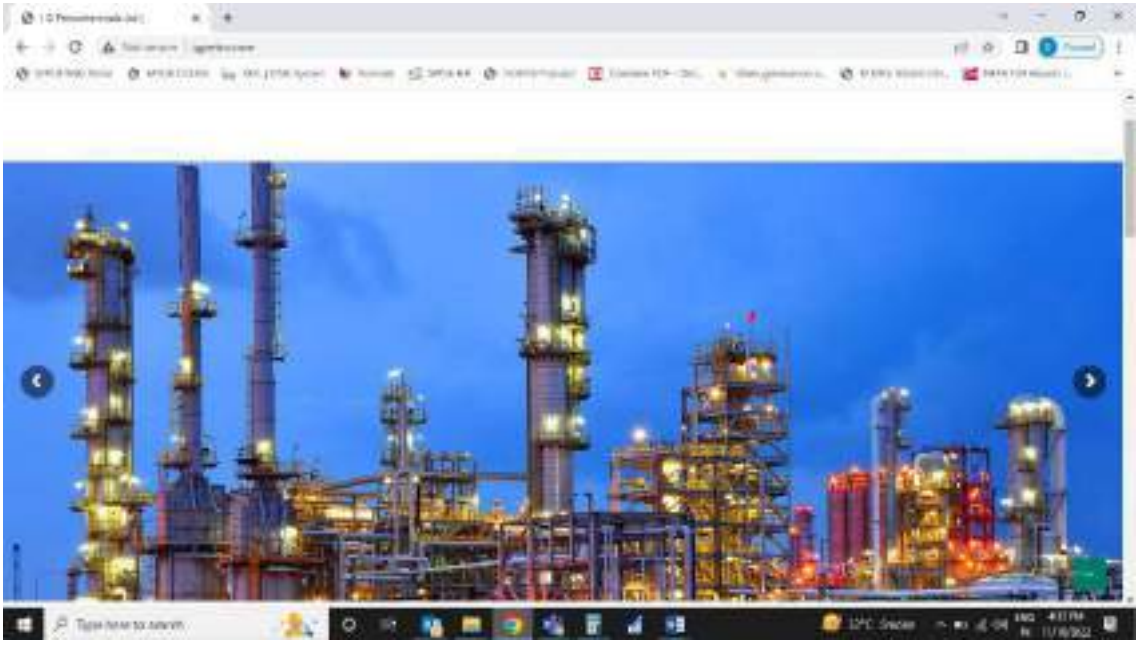
MPCB-ENVIRONMENT_STATEMENT-0000049121

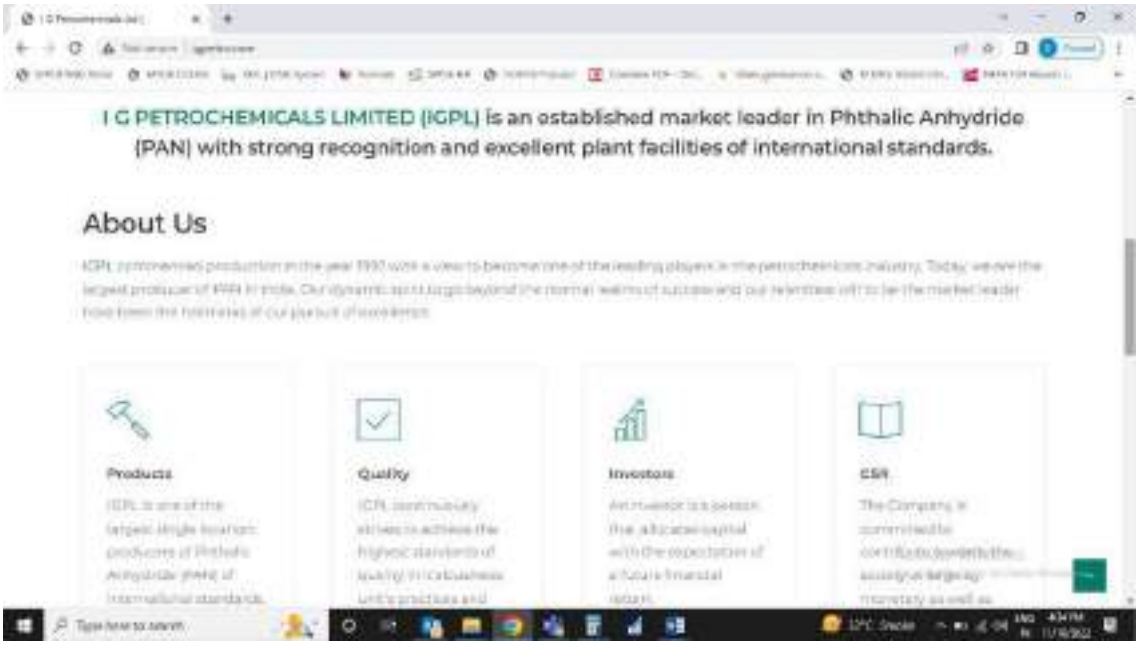
Submitted On:

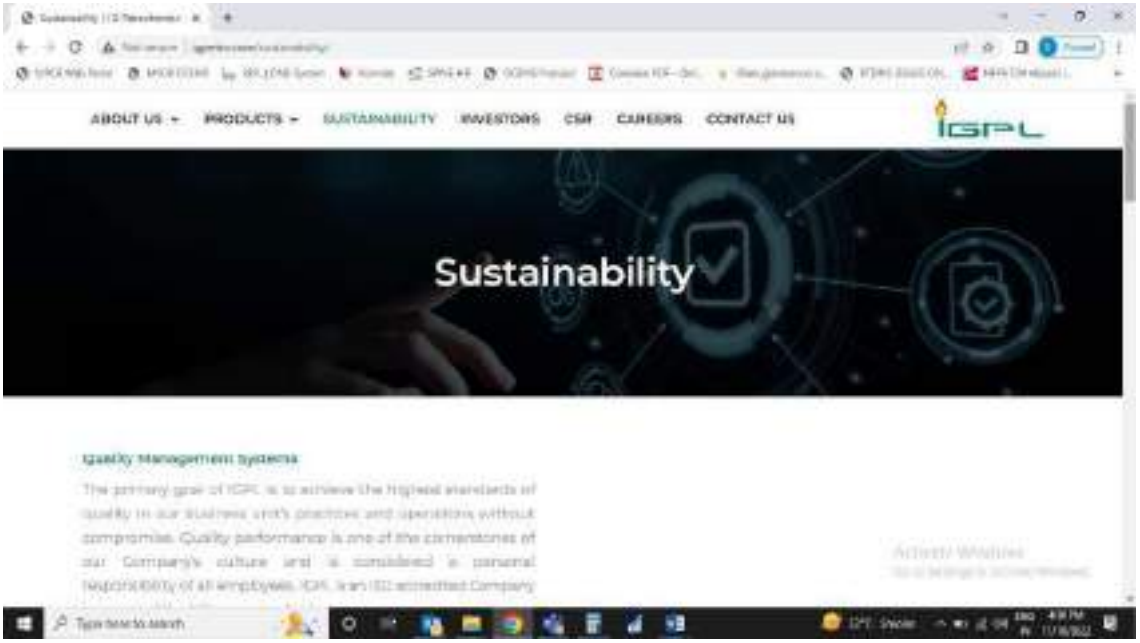
29-09-2022

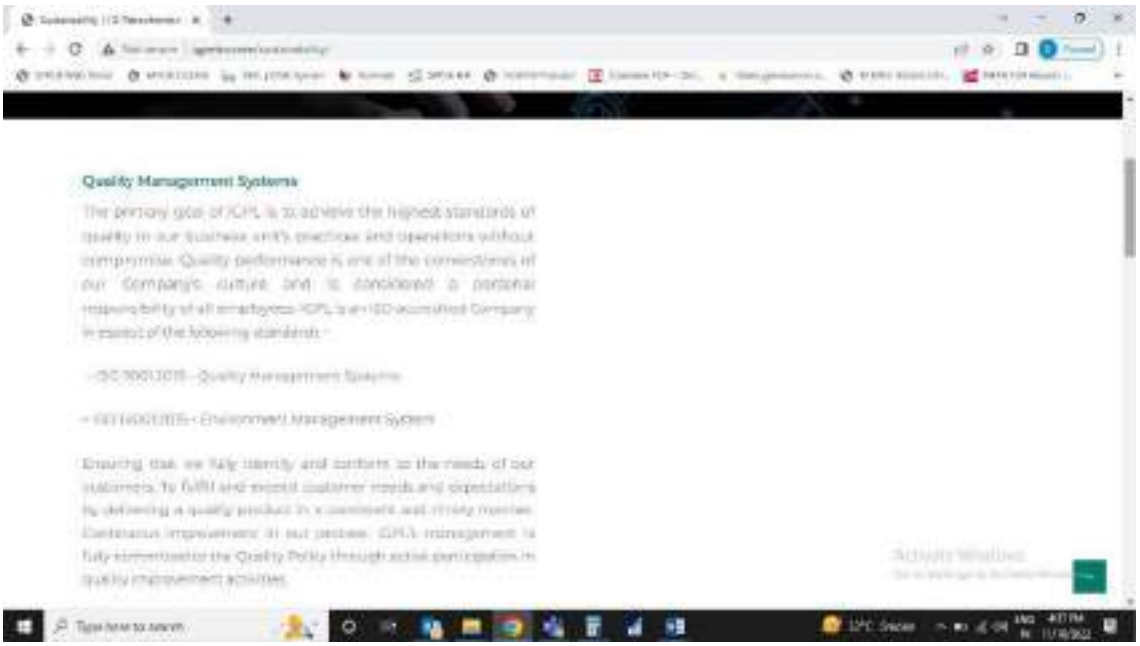
ANNEXURE – XXII

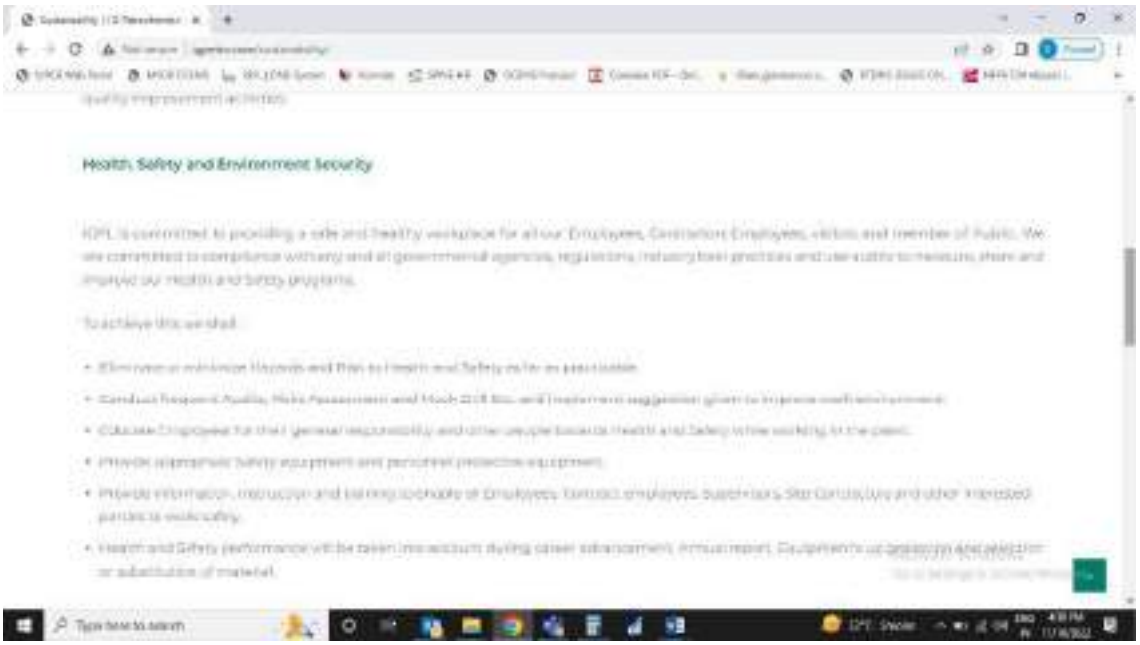
IGPL WEBSITE SNAPSHOTS

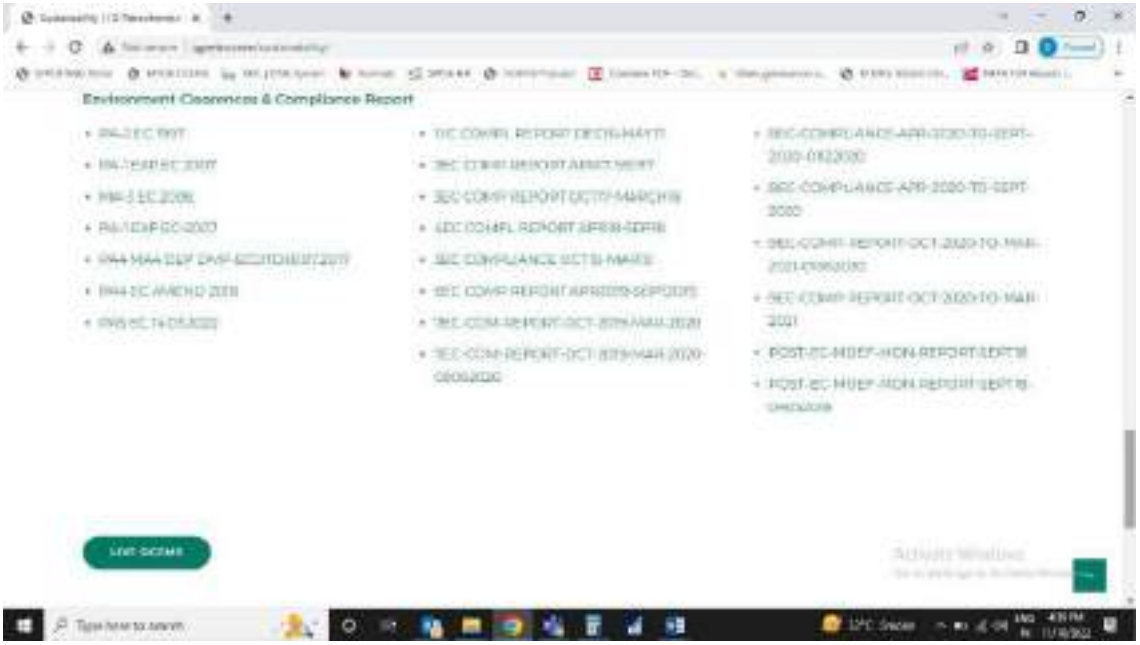





ABOUT US
PRODUCTS
SUSTAINABILITY
INVESTORS
CSR
CAREERS
CONTACT US
IGPL
Sustainability
Quality Management Systems


Quality Management Systems


Health Safety and Environment Security


Environment Clearances & Compliance Report

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 9747; E-mail: igpl@igpetro.com

ANNEXURE-XXIV

PHOTOS OF PA – IV AND DEP PLANT

Heater

DISTILLATION

STORAGE TANKS

DEP PLANT

ANNEXURE - XXV

MEE PLANT-

MCC PANEL ROOM-

TRICKLING FILTER-

MGF AND ACF-

UF-

RO- 1 –

RO- 2-

DOSING PLATFORM-

TRICKLING FILTER MCC-

UF AND RO BUILDING-

ANNEXURE - XXVI

TREE SURVIVAL REPORT PLANTED AT GHOT CAMP & NITLAS

NITALAS VILLAGE ROAD TREE PLANTATION BY IGPL


NITLAS DONGARI


NITLAS DONGARI


IGPL
हार्दिक आभार...
NITLAS


NITLAS DONGARI


NITLAS DONGARI


NITLAS DONGARI

GHOT CAMP

MIYAWAKI FOREST