I G PETROCHEMICALS LIMITED

Date: 1st Dec 2021

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-IAdated 20thTune 1997
3) PA-II & 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 April 2021 – Sept 2021. We hope the above is to your satisfaction.

Thanking You,
Yours faithfully

(AJIT BAGADE)
PRESIDENT- OPERATIONS

I. G. PETROCHEMICALS LTD. TALOJA

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 2021 – SEPT 2021** **EC No. J-11013/14/2007-IAII (I) dated 12.06.2007.**
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
Status	PLANT EXPANSION COMPLETED IN THE YEAR 2008

It is noted that the proposal is for capacity addition of 26,110 MTA of Phthalic Anhydride to the existing 90,000 TPA by change in catalyst on 'No- Increase in Pollution Load' basis. The technology for the plant has been supplied by Lurgi of Germany. The unit PA – I was installed in 1992 with a capacity of 45,000 MTA and PA – II was set up in 1997 with the same capacity. PA – II was undertaken after the Environmental Clearance from the ministry. The expansion 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 2020-MARCH 2021 full year	**APR 2020-SEPT 2021 6 months**	
Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA	222110 MT/A	170571. 950 MT	102360.800 MT	• We are well within the prescribed limit of EC & Consent

	PA IV 53000 MTPA				
Benzoic Acid	1500 MT/A	1500 MT/A	744.850 MT	441.8502 MT	
Maleic Anhydride	7660 MT/A	7660 MT/A	5381.35 MT	3150.450 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 gases.**	We are regularly monitoring Air pollution through MoEF recognized laboratory. TOC monitoring reports for Apr 2021 – Sept 2021 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**

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 2021 – Sept 2021 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 2021 – Sept 2021 period is enclosed as **ANNEXURE –IV.**
iv.	**There will be no increase in Storage tanks.**	There has been no change in Storage Tanks / Quantity.
v.	**All other conditions prescribed by Ministry at the time of expansion of PA- II will be prevail.**	Yes six monthly reports for all ECs are being submitted regularly **ANNEXURE –V.**
vi.	**Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained**	Yes, Noted. Work zone monitoring reports for APR 2021 – SEPT 2021 period are enclosed under **ANNEXURE - II**
vii.	**Raw material will be stored in covered yards. Water sprinkling arrangement should be made in the raw material stock yard to control fugitive emissions.**	Major Raw Material is o-Xylene which is liquid in nature. Stored in Storage tanks with sprinklers arrangement. The installation is CCoE approved. Photograph showing designated storage area for storage of raw material: o-Xylene are enclosed as **ANNEXURE - VI**
viii.	**Acoustic enclosure will be installed to limit the noise levels below 85 dBA.**	Yes, Enclosures have been provided at various Noise Generating locations. Monitoring Reports for the period Apr 2021 – Sept 2021 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.**	Yes, we have developed green belt in company premises. Plan showing Green belt enclosed as **ANNEXURE - VII .**
xi.	**The company shall harvest surface as well as rainwater from the rooftops of the building proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.**	Yes, we have installed rainwater harvesting at two locations and these are in operation. In 2021 -22 rainy season, we have recovered total of 6088 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 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 Amalgamated Consent to Operate from Maharashtra Pollution Control Board vide no. Format 1.0/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 Copy of same is enclosed as **ANNEXURE – XV.** Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. **ANNEXURE – XV-A.**
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.**	Agreed. All subsequent expansions were carried out after obtaining Environmental Clearances from MOEF &CC
iii.	**Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four Ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO_2 and NOx are anticipated in consultation with the SPCB. It will be ensured that at least one monitoring station is set up in up-wind & down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and SPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.**	We are regularly monitoring Ambient Air Quality Monitoring through MoEF & CC recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises. Ambient Air Monitoring Reports for Apr 2021 – Sept 2021 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 2020 – SEPT 2021 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 2021 – Sept 2021 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 2021 – Sept 2021 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 2021 – SEPT 2021** **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/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 Copy of same is enclosed as **ANNEXURE – XV.** Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. **ANNEXURE – XV-A.** (**ANNEXURE - XX**).
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.**	Yes, agreed. For further expansion (installation of new plants of Phthalic Anhydride/Maleic Anhydride/benzoic acid) we have received EC No J-11011/73/2016-IA-II(I) dated 18 th July 2017.
iii.	The gaseous emission from the various process units should adhere to the air emission standards specified in Part D, Schedule VI of	Regular stack / vent monitoring is being carried out through MoEF recognized lab. We have also provided online monitoring system

	Environmental (Protection) Second amendment and Rules, 1993. For boiler stack the EPA norms as per Notification dated 27th February, 1996 should be complied. In case the standards stipulated by SPCB are more stringent than the EPA norms, the industry should follow the above. At no time the emission should go 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.	which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. **REFER ANNEXURE XVI FOR OCEMS DASHBOARD**
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.	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**

	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.	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 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.	We have online emission and effluent monitoring system connected to CPCB and MPCB servers .Ref **ANNEXURE XVI** .
viii	Guard ponds of sufficient holding capacity should be provided to cope with the effluent discharge -during the process disturbances. In the event of 'failure or nonfunctioning of the ETP, the respective1units should be immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Holding tanks with total capacity 750 m3 for incoming effluent and 400 m3 treated effluent are provided as buffer for any upstream/downstream disturbances. These tanks are RCC tanks(with lining of Acid/alkali proof tile for acidic effluents)
ix	The guard pond should be provided with impervious. lining and stability of the ponds with respect to leakages/cracks and other factors should be ensured	These tanks are RCC tanks with lining of Acid/alkali proof tile lining. The lining is checked and pointing & other repairs if required is done as preventive maintenance.
x	Adequate number of influent and effluent. Quality monitoring stations should be set up in consultation with the State Pollution Control Board	We have online effluent monitoring system connected to CPCB and MPCB servers .**Ref ANNEXURE XVI**. Regular in plant analysis of various streams of ETP are done in the laboratory.
xii	The hazardous wastes should be handled as per the Hazardous Wastes (Management and Handling) rules of the environment (Protection) Act, 1989	We are complying the hazardous waste management rules .

xiii	Handling, manufacturing storage and transport of hazardous chemicals should be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989	complied
xiv	On-site and off-site Emergency Plan as required under the Rules 13 and 14 of the Manufacture, Storage and Import of the Hazardous Chemicals Rules, 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.	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt. Please refer **ANNEXURE – VII** for details of Green belt developed.
xvii	Periodical medical checkup of the workers should be done and records maintained as a measure to provide occupational health service to the workers.	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	**EC COMPLIANCE FOR THE PERIOD APR 2020 – SEPT 2021** **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 2021 - Sept 2021 6 months**	
Maleic Anhydride	7660 TPA	7660 TPA	5381.35	3150.45	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 6800 m3 of rain water from these two locations

vi.	Green belt shall be raised in 33% of the plant area to mitigate the fugitive emissions the plant. Selection of plant species shall be as per the Central Pollution Control Board guidelines.	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt. Please refer **ANNEXURE – VII** for details of Green belt developed.
vii.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	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 202 – Sept 2020 are enclosed as **ANNEXURE – II .**
v.	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project.	We shall abide by this strictly. The site details are submitted to the DISH as they are the prescribed authority under the MSIHC Rules. Consent To Operate / Authorization from MPCB has been obtained. Format 1.0/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 Copy of same is enclosed as **ANNEXURE – XV.** Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. **ANNEXURE – XV-A.**
vi.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	Yes, complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste to CHWTSDF. Copy of the membership certificate & hazardous waste return are enclosed as **ANNEXURE – I & XIV.**
vii.	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Agreed and complied **ANNEXURE IX.**
viii.	The stipulated conditions will be monitored by the Regional Office of this Ministry at Bhopai/Central Pollution Control Board/State Pollution Control Board. A six monthly	Complied.

	compliance report and the monitored data should be submitted to them regularly.	
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.	Complied

Ref	**PA III EC COMPLIANCE REPORT APR 2021 – SEPT 2021** **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 2021 – SEPT 2021. The effluent after primary, secondary & tertiary treatment is discharged to CETP, Taloja. Scrubbers have been provided for process emissions. The stack emissions are being monitored through OCEMS which is connected to CPCB/MPCB servers. Requisite stack heights have been provided.		
A.	**SPECIFIC CONDITIONS:**	
i)	**The Company shall install full-fledged ETP to treat the process effluent and treated effluent after primary, secondary and tertiary treatment and confirming to the prescribed standards shall be sent to CETP for further treatment. The company shall construct a guard pond for treated effluent and shall carry out the bioassay test by collecting the treated effluent into guard pond before discharging into CETP. The reports shall be submitted to CPCB and Ministry's Regional Office at Bhopal.**	The existing ETP plant was revamped in 2013 to treat the additional load from the expansion before commissioning the Phase III plant. Holding tanks with total capacity 750 m3 for incoming effluent and 400 m3 treated effluent are provided in ETP. Bioassay test is already carried out on our effluent through MOEF recognized third party. Company is already a Member of CETP and all effluents shall be disposed to CETP. The note on revamping of ETP is enclosed as **ANNEXURE – XI.** We have continuous online effluent monitoring system (BOD,COD,pH,TSS) connected to CPCB

		and MPCB servers .Ref **ANNEXURE XVI** . We have further upgraded ETP by incorporating RO and MEE to recycle total effluent generated from ongoing expansion and also recycling part of the existing effluent, thus bringing consented effluent discharge from 686 m^3/day to 220 m^3/day. Ref **ANNEXURE-XXV** for details of upgradation .
ii)	**Process emissions in the form of HCl and TOC shall be controlled by installation of scrubbers. The company shall provide the monitoring arrangements with stack and regular monitoring shall be carried out and reports submitted to the SPCB, CPCB and Ministry's Regional Office at Bhopal. The gaseous emissions from the DG sets shall be dispersed through stack of adequate height as per CPCB / state pollution Control Board standards.**	Process emissions are controlled by three stage scrubbers**.** Provision shall made of sampling port hole and monitoring is being done. DG sets are provided with stack height of 15 & 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 plant plants**	Spent carbon is generated from ETP tertiary treatment process and thus unsuitable for burning in cement plants. Also, quantity

	or spent carbon should be incinerated.	generated is very small (10 TPA max) and there is no Cement plant in 500 km distance from our unit. Hence, we shall dispose this in CHWTSDF Taloja which is located in 2 km distance from our unit. Copy of MWML Membership Certificate is enclosed as **ANNEXURE – XIII** & Copy of Hazardous Waste Return submitted in form – IV for 2020 – 2021 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/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 (**ANNEXURE - XV**). Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. ANNEXURE – XV-A. We shall abide by the conditions of the Authorization. All hazardous chemicals/wastes are transported as per MVA, 1989 and through approved transporters of MPCB.
vii)	**The project authority shall obtain the membership of TSDF for disposal of solid and hazardous waste and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.**	Yes, complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste. . Copy of the membership certificate enclosed as **ANNEXURE – XIII.**
viii)	**The company shall develop in land area of 35685 sq. ft, as per the CPCB guidelines to mitigate the effect of fugitive emissions.**	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt. Please refer **ANNEXURE – VII** for details of Green belt developed.
ix)	**Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.**	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/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 (**ANNEXURE - XV**). Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. ANNEXURE – XV-A. 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**	Yes, agreed.

	the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii)	**At no time, the emissions shall exceed the prescribed limits. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.**	Yes, agreed.
iv)	**The gaseous emissions (NOx, SO2 and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions level shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO2, NOx and SPM shall be carried.**	Regular stack / vent monitoring is being carried out through MoEF recognized laboratory. We have also installed continuous online monitoring system which is linked directly with CPCB /MPCB servers for stack emissions as well as effluent. **REFER ANNEXURE XVI FOR OCEMS DASHBOARD**
iv)	**The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the up wind and down wind directions as well as where maximum ground level concentrations are anticipated.**	Yes, the ambient air quality monitoring is carried out regularly & will be continued. **REFER ANNEXURE II**
v)	**The overall noise levels in and around the plant area shall kept well within the standards by providing noise control measures including acoustic hoods, silencers,** **enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment**	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**

	(Protection) Act, 1986 Rules 1989 viz. 75 dBA (day Time) and 70 dBA (night time).	
vii)	**The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management & risk mitigation measures relating to the project shall be implemented.**	Yes agreed.
viii)	**The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration.**	Company is undertaking various community welfare measure for improvement of the environment as under: Refer **ANNEX 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 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**	Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in expansion project**.**

	other purpose.	
xii)	**The implementation of the project vis-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.**	Yes- being done regularly.
xiii)	**A copy of the clearance letter shall be sent by the proponent to concerned 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/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 (**ANNEXURE - XV**). Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. ANNEXURE – XV-A.
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	**PA-IV EC COMPLIANCE REPORT APR 2021 – SEPT 2021** **EC No. J-11011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same dated 20th February 2018.**
To	IG Petrochemicals Ltd, T-2, MIDC Taloja
For	Expansion of Petrochemical and synthetic organic chemicals manufacturing facility.
Status	Phthalic Anhydride & Maleic Anhydride Plants are commissioned, Di Ethyl / Di Methyl Phthalic Plant is under erection.

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

This Environmental Clearance were obtained for expansion of petrochemical and synthetic organic chemicals manufacturing facility with total proposed capacity of 72210 TPA.

Consolidated Consent to Operate for existing Plant PA –I, PA – II ,PA – III, Benzoic Acid & Maleic Anhydride plants is obtained.

Production details of existing unit as per listed below:

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

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

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

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

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

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

OK. Above condition is noted.

A.	**Specific Conditions:**	
i.	**5000 trees shall be planted in five years in nearby villages. Survival rate of plants shall be reported to RO, MoEF & CC in 6 monthly compliance report.**	We have planted 2000 nos of trees at Ghot Camp located 1.0 km away from IGPL Plant in the year - 2019 monsoon. 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-XX.** 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/CC/UAN No. 00000101662/CO – 2107000003 Dated: 01/07/2021, valid upto 31/08/2021 Copy of same is enclosed as **ANNEXURE – XV.** Application for renewal of consent submitted on 15/06/2021. Application UAN No. 0000115836. **ANNEXURE – XV-A.**
ii.	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.**	Yes, agreed. No further expansion or modification in the plant will be carried out without prior approval from MoEF & CC
iii.	**The locations of ambient air quality**	We are regularly monitoring Ambient Air

	monitoring stations shall be decided consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Quality Monitoring through MoEF & CC recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Ambient Air Monitoring Reports for last six months are enclosed as **ANNEXURE – II.**
iv.	**The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed**	Yes, Agreed.
v.	**The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).**	Yes, we have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for Apr 2021 – Sept 2021 period are enclosed under **ANNEXURE - II** showing compliance.
vi.	**The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.**	Yes, We have installed rainwater harvesting at two locations and these are in operation. Last monsoon year we have recovered total of 3170 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**	Yes agreed. All Environmental Protection

	environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA & EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	measures are incorporated as per documents submitted to ministry.
ix.	**The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.**	Yes, the company contributes to nearby Ashram / local village Gram panchayat.
x.	**The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.**	Company is undertaking various community welfare measures for improvement of the environment. refer **ANNEXURE XXVII & Annexure – XVIII.**
xi.	**A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.**	Separate Environment Management Team under HoD – Health, Safety & Environment has been formed. Separate Environment Laboratory for monitoring ETP performance has been established. Technical guidance shall be provided by President (Production & Technical Services) . Necessary sampling & analysis is conducted by MoEF & CC approved laboratories.
xii.	**The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.**	Yes, Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in proposed expansion project**.**

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

	forwarded to the concerned Regional Office of the Ministry.	
xvii.	**The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.**	Yes, Agreed. Project is partly completed Phthalic & Maleic Anhydride) and part of Project (DEP/DMP) is under construction. We will intimate to RO, MOEF once project is completed.
xviii	**The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory**	Yes, Noted.
xix	**The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.**	Yes, Agreed.
xx.	**The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention &. Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.**	Yes, Noted.

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ANNEXURE – 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 2020 – 2021
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(AA) / AS(AA(M)
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-21			May-21			Jun-21		
		21-04-21			31-05-21			23-06-21		
		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	Jul-21			Aug-21			Sep-21		
		16-07-21			26-08-21			18-09-21		
		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-21			
	24-04-21			
	PA	SO2	NOx	SPM
	ppm	mg/m3	mg/m3	mg/m³
Phthalic Anhydride Ware House	BDL	0.013	0.036	0.152
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-21			
	31-05-21			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	BDL	0.011	0.031	0.142
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	Jun-21			
Location	23-06-21			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	BDL	0.013	0.036	0.145
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	Jul-21			
Location	16-07-21			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	BDL	0.015	0.042	0.15
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	Aug-21			
Location	26-08-21			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House				
Limiting Standards				
NIOSH				
TLV(TWA)	--	2	--	--
STEL	--	5	1	--
ACGIH				
TLV(TWA)	--	2	3	10
STEL	--	5	5	--

Work Room Air Monitoring				
	Sep-21			
Location	21-09-21			
	PA	SO2	NOx	SPM
	ppm	mg/m³	mg/m³	mg/m³
Phthalic Anhydride Ware House	BDL	0.013	0.03	0.132
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
		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	
		24-04-21	27-05-21	23-06-21	16-07-21	26-08-21	21-09-21	
		Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	
1	TOC	BDL	BDL	BDL	BDL	BDL	BDL	20 mg/Nm^3
2	TPM (mg/m3)	0.152	0.142	0.145	0.15	0.145	0.164	20 mg/Nm^3

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

AMBIENT AIR MONITORING

Ambient air monitoring- ETP							
Parameters	**Standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	**31-05-21**	**23-06-21**	**19-07-21**	**26-08-21**	**23-09-21**
SO2	80	14.2	15.5	13.9	1.7	11.3	11.8
Nox	80	21.5	23	23.8	23.4	18.8	20
PM 10	100	62.2	63.5	64	58.7	49.3	59.4
PM 2.5	60	21.7	22.1	22.1	19.2	16.3	19.2
OZONE	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CO	4	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Lead	1	0.37	0.43	0.49	0.31	0.28	0.3
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
Ambient air monitoring- Flaker building terrace area							
Parameters	**Standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	**31-05-21**	**23-06-21**	**19-07-21**	**26-08-21**	**23-09-21**
SO2	80	14.6	15.5	14.2	13.3	10.8	12.2
Nox	80	23	23.7	24	22.3	18.7	20.3
PM 10	100	63.1	62.8	2.8	57.9	51.2	56.9
PM 2.5	60	22.9	22.9	21.3	18.7	17.1	18.7
OZONE	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.1
CO	4	<0.8	<0.8	<0.8	<0.8	<0.8	<0.9
Lead	1	0.34	0.34	0.5	0.3	0.28	0.29
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	<1.1
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

EFFLUENT ANALYSIS REPORT

TREATED EFFLUENT ANALYSIS REPORT							
Date	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Limiting Standard (*)
	24-04-21	29-05-21	22-06-20	16-07-21	25-08-21	22-09-21	
pH	7.64	8.18	8.03	8.19	7.97	7.66	5.5 to 9.0
Suspended Solids	32	14	22	28	24	28	not to exceed 600
Biochemical Oxygen Demand	45	22.5	45	25	40	40	not to exceed 350
Chemical Oxygen Demand	100	70	120	70	120	160	not to exceed 250
Oil & Grease	<2	<2.0	<2.0	<2.0	<2.0	<2.0	not to exceed 20
TDS	1650	1480	1830	1280	1320	1840	Not exceed 2100
Chloride	342	588	450	160	170	258	Not exceed 600
Sulphates	426	458	220	148	181	181	
Ammonical Nitrogen as N	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	not to exceed 50
Bio-assay	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent	90%survival of fish after 96 hr in 100% effluent
(*) Standard for discharge in Public Sewers							
All parameters and limits except pH are in mg / lit.							
BOD is expressed in the terms of 3 days and @ 27^{o}C.							
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

AMBIENT NOISE LEVEL MONITORING REPORT

Ambient Noise Level Monitoring Report												
Date	Apr-21		May-21		Jun-21		Jul-21		Aug-21		Sep-21	
	21-04-21		31-05-21		23-06-21		16-07-21		23-08-21		20-09-21	
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	62.1	60	56.2	54.8	65.4	61.2	65.4	61.8	66.1	62.1
L2	63.2	59.8	63	61.2	58.6	55.2	62.7	58.9	63.7	60	64.2	60
L3	67.8	63	59.2	56.8	62.8	58.1	66.1	61.6	58.5	57.5	59.2	56.1
L4	63.1	59.6	68.8	65.2	61.3	57.2	61.8	57.5	57.2	56.7	56.1	55
L5	67.2	62.8	72.1	68.9	68.5	66.2	68.7	67.1	68.9	66.9	68	64.8
L6	68.1	65.3	69.8	66.2	67.2	63.8	66.5	64.8	61.9	58.7	63.1	57.2
L7	65.1	61.8	72.1	69.8	72.8	68.1	69.2	66.8	68.8	67	69.9	66.8
Standard	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE II

STACK EMISSION MONITORING

Heater Stack Emmission Monitoring - PA I							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		32 m	32 m	32 m	32 m	32 m	33 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)		54 ^oC	52 ^oC	54 ^oC	90 ^oC	85 ^oC	51 ^oC
Velocity m/sec		6.24 m/sec	6.19 m/sec	6.56 m/sec	5.42 m/sec	4.64 m/sec	6.78 m/sec
Flow m3/hr.		4015.13 m^3/hr.	4008.30 m^3/hr.	4225.62 m^3/hr.	3143.37 m^3/hr.	2730.54 m^3/hr.	4405.84 m^3/hr.
Fuel Quantity		4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	5 MTPD + 7 MTPD
Fuel Used		FO + Residue	FO + Residue	FO + Residue	FO + Residue	FO + Residue	FO + Residue
Heater -I	**Limiting Standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	30-08-21	**20-09-21**
TPM (mg/Nm3)	**150**	45.7	50.9	55.7	50.2	53.9	57
SO2 (mg/Nm3)	**1700**	3.71	4.32	3.9	2.42	2.52	3.39
Nox (mg/Nm3)	**450**	10.4	13.5	11.4	15.6	12.5	9.3
CO ppm	**200**	2.3	2.8	3.3	3.7	2.2	3.7

Heater Stack Emission Monitoring - PA II							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		34 m	34 m	34 m	34 m	34 m	35 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)		62 ^oC	58 ^oC	49 ^oC	105 ^oC	85^oC	95^oC
Velocity m/sec		6.37 m/sec	6.58 m/sec	6.10 m/sec	5.47 m/sec	5.23 m/sec	5.77 m/sec
Flow m3/hr.		5575.7 m^3/hr.	5565.57m^3/hr.	5553.10 m^3/hr.	4238.95 m^3/hr.	4282.53 m^3/hr.	4592.78 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	5 MTPD + 7 MTPD
Heater - II	**Limiting Standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	26-08-21	**20-09-21**
TPM (mg/Nm3)	**150**	31.1	28.3	30.2	34.1	36.3	34.7
SO2 (mg/Nm3)	**1700**	20.59	18.84	17.09	12.39	3.3	2.83
Nox (mg/Nm3)	**450**	15.6	11.4	14.5	11.4	11.4	10.4
CO ppm	**200**	2.6	2.4	3.1	2.9	3.2	3

Heater Stack Emission Monitoring - PA IV							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		31 m	31 m	31 m	31 m	31 m	32 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)		42 ^oC	44^oC	41 ^oC	101 ^oC	67 ^oC	80 ^oC
Velocity m/sec		4.36 m/sec	4.82 m/sec	4.61 m/sec	5.40 m/sec	4.83 m/sec	5.76 m/sec
Flow m3/hr.		7452.03 m^3/hr.	8200.83 m^3/hr.	7916.65 m^3/hr.	7778.92 m^3/hr.	7650.09 m^3/hr.	8799.39 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	5 MTPD + 7 MTPD
Heater - IV		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**

	Limiting Standard	21-04-21	31-05-21	23-06-21	16-07-21	26-08-21	20-09-21
TPM (mg/Nm3)	**100**	43.4	38.9	41.6	36.6	38.5	39.5
SO2 (mg/Nm3)	**1700**	6.88	7.57	8.53	9.58	9.42	9.48
Nox (mg/Nm3)	**450**	11.4	15.62	12.5	10.4	14.5	12.5
CO ppm	**200**	2	2.57	3.1	2.6	3.1	2.9

Boiler Stack Emission Monitoring						
Physical Data:	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)	55 m	55 m	55 m	55 m	55 m	56 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)	171 ^oC	178 ^oC	184^oC	119 ^oC	168 ^oC	184 ^oC
Velocity m/sec	5.74 m/sec	6.03 m/sec	6.12 m/sec	5.26 m/sec	4.27 m/sec	6.01 m/sec
Flow m3/hr.	73566.23 m^3/hr.	76077.37 m^3/hr.	76279.35 m^3/hr.	76076.46 m^3/hr.	55158.68 m^3/hr.	74866.65 m^3/hr.
Fuel Used	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil
Fuel Quantity	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	28 MTPD (maximum)
Boiler	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	**26-08-21**	**20-09-21**
TPM(mg/Nm3)	100	68.9	71.9	77.3	70.2	64.2	61.6
Nox conc (mg/Nm3)	450	18.7	70.26	82.17	70.26	42.44	57.61
SO2 mg/Nm3	1700	79.25	15.6	12.5	14.5	12.5	13.5
CO mg/Nm3	200	2.5	3.1	3.7	4.5	4.2	4.5

Scrubber Stack Emission Monitoring - PA I						
Physical Data:	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)	50 m	50 m	50 m	50 m	50 m	51 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^2	3.11m^2	3.11m^2	3.11m^2	3.11m^2	3.11m^2
Flue Gas Temperature (^oC)	71 ^oC	62 ^oC	59 ^oC	50 ^oC	51 ^oC	64 ^oC
Velocity m/sec	7.20 m/sec	6.94 m/sec	6.62 m/sec	6.63 m/sec	6.37 m/sec	6.78 m/sec

Flow m3/hr.		69766.52 m^3/hr	69088.47.81 m^3/hr	66524.38 m^3/hr	68693.50 m^3/hr	65591.25 m^3/hr	67055.69 m^3/hr
PA I Scrubber	**Limiting Standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	**30-08-21**	**20-09-21**
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
SO2 (mg/Nm3)	850	12.2	28.1	17.1	14.7	12.2	9.8
TPM	50	31.5	14.7	25	22.5	23.2	24.9
NOX	350	10.4	13.5	11.4	13.5	11.4	15.6
ND - NOT DETECTED							

Scrubber Stack Emission Monitoring - PA II							
Physical Data**:**		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		50 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^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2
Flue Gas Temperature (^oC)		69 ^oC	67 ^oC	62 ^oC	45 ^oC	45 ^oC	42 ^oC
Velocity m/sec		7.63 m/sec	7.26 m/sec	7 m/sec	6.03 m/sec	7.15 m/sec	8.71 m/sec
Flow m3/hr.		53643.82 m^3/hr	51365.64 m^3/hr	50282.40 m^3/hr	45476.76 m^3/hr	54070.94 m^3/hr	66511.73 m^3/hr
PA - II Scrubber	**Limiting Standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	**20-02-21**	**20-09-21**
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
SO_2 **(ppm)**	1700	12.2	9.8	12.2	14.7	19.6	14.7
TPM	100	23.4	24.8	25.9	21.2	20	27.7
Nox	450	13.5	10.4	13.5	11.4	14.5	13.5
ND - NOT DETECTED							

Scrubber Stack Emission Monitoring - PA III							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		50 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^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2
Flue Gas Temperature (^oC)		67 ^oC	65 ^oC	62 ^oC	49 ^oC	41 ^oC	59 ^oC
Velocity m/sec		5.67 m/sec	5.48 m/sec	5.33 m/sec	6.30 m/sec	7.17 m/sec	7.37 m/sec
Flow m3/hr.		40092.30 m^3/hr	38990.72 m^3/hr	38241.28 m^3/hr	47022.91m^3/hr	54921.62 m^3/hr	53412.04 m^3/hr
PA III Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	26-08-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
SO_2 **(ppm)**	1700	14.7	12.2	14.7	17.1	19.6	17.1
TPM	100	20.3	21.4	23.2	20.4	21.8	24.3
Nox	450	12.5	10.4	14.5	10.4	12.5	10.4
ND - NOT DETECTED							

Scrubber Stack Emission Monitoring - PA IV							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		50 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^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2	2.24 m^2
Flue Gas Temperature (^oC)		66 ^oC	63 ^oC	60 ^oC	52^oC	46 ^oC	45 ^oC
Velocity m/sec		8.15 m/sec	7.94 m/sec	7.80 m/sec	6.84 m/sec	7.12 m/sec	9.47 m/sec
Flow m3/hr.		57847.23 m^3/hr	56807.88 m^3/hr	56371.50 m^3/hr	50588.70 m^3/hr	53700.90 m^3/hr	71660.63 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
SO_2 **(ppm)**	850	12.2	14.7	17.1	19.6	17.1	19.6
TPM	50	23	25.6	24.9	22.8	29.9	29.6
Nox	350	17.7	14.5	11.4	14.5	13.5	11.4
ND- Not Detected							

Scrubber Stack Emission Monitoring - PA Dedusting 1							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
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)		0.096 m^2	0.096 m^2	0.096 m^2	0.096 m^2	0.096 m^2	0.096 m^2
Flue Gas Temperature (^oC)		44 ^oC	40 ^oC	39 ^oC	41^oC	85 ^oC	42^oC
Velocity m/sec		4.57 m/sec	8.72 m/sec	8.57 m/sec	6.03 m/sec	5.38 m/sec	9.52 m/sec
Flow m3/hr.		1487.02 m^3/hr	2875.22 m^3/hr	2834.89 m^3/hr	1982.15 m^3/hr	1550.95 m^3/hr	3118.90 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
TPM	150	58.6	60	62.1	56.9	58.3	65
ND- Not Detected							

Scrubber Stack Emission Monitoring - PA Dedusting 2							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
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)		0.096 m^2	0.096 m^2	0.096 m^2	0.096 m^2	0.096 m^2	0.096 m^2
Flue Gas Temperature (^oC)		42 ^oC	36 ^oC	35^oC	51^oC	42 ^oC	37 ^oC
Velocity m/sec		5.8 m/sec	6.61 m/sec	6.62 m/sec	8.55 m/sec	6.67 m/sec	6.93 m/sec
Flow m3/hr.		1793.62 m^3/hr	2207.70 m^3/hr	2217.16 m^3/hr	2721.24 m^3/hr	2183.67m^3/hr	2307.25 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
TPM	150	55.2	59.3	63.5	50.1	48.2	55.8
ND- Not Detected							

Scrubber Stack Emission Monitoring - PA Dedusting 3							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 m
Inside Diameter (m)		0.40 m	0.40 m	0.40 m	0.40 m	0.40 m	0.40 m
Stack Area (m^2)		0.126 m^2	0.126 m2	0.126 m2	0.126 m2	0.126 m2	0.126 m2
Flue Gas Temperature (^oC)		45 ^oC	39 ^oC	38 ^oC	43^oC	45 ^oC	41 ^oC
Velocity m/sec		7.87 m/sec	8.88 m/sec	8.82 m/sec	8.45 m/sec	7.98 m/sec	9.14 m/sec
Flow m3/hr.		3336.27 m^3/hr	3836.34 m^3/hr	3822.44 m^3/hr	3604.99 m^3/hr	3381.06 m^3/hr	3922.43 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
TPM	150	63.3	59.1	62	56.5	53.8	62.2
ND- Not Detected							

Scrubber Stack Emission Monitoring - PA Dedusting 4							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 m
Inside Diameter (m)		0.40 m	0.40 m	0.40 m	0.40 m	0.40 m	0.40 m
Stack Area (m^2)		0.126 m^2	0.126 m^2	0.126 m^2	0.126 m^2	0.126 m^2	0.126 m^2
Flue Gas Temperature (^oC)		41 ^oC	42 ^oC	41 ^oC	47^oC	44 ^oC	40 ^oC
Velocity m/sec		4.98 m/sec	5.68 m/sec	5.46 m/sec	6.16 m/sec	5.93 m/sec	5.81 m/sec
Flow m3/hr.		2137.74 m^3/hr	2429.07 m^3/hr	2341.78 m^3/hr	2593.52 m^3/hr	2521.69 m^3/hr	2503.1 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
TPM	150	59.9	50.7	53.9	59.6	62	60.7
ND- Not Detected							

Scrubber Stack Emission Monitoring - MA Bagging							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 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 (^oC)		39 ^oC	39 ^oC	40 ^oC	46 ^oC	37 ^oC	40 ^oC
Velocity m/sec		4.72 m/sec	3.78 m/sec	3.76 m/sec	6.10 m/sec	2.96 m/sec	3.79 m/sec
Flow m3/hr.		888.58 m^3/hr	712.03 m^3/hr	705.04 m^3/hr	1122.49 m^3/hr	560.08 m^3/hr	710.9 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
TPM	150	20.9	19.4	21.8	19.7	22.2	27.9
ND- Not Detected							

Scrubber Stack Emission Monitoring - MA Flaker							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		12 m	12 m	12 m	12 m	12 m	12 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 (^oC)		41 ^oC	42 ^oC	42 ^oC	42^oC	40 ^oC	44 ^oC
Velocity m/sec		5.17 m/sec	5.01 m/sec	4.83 m/sec	5.86 m/sec	3.84 m/sec	5.18 m/sec
Flow m3/hr.		966.02 m^3/hr	934.14 m^3/hr	900.48 m^3/hr	1092.55 m^3/hr	719.58 m^3/hr	959.31 m^3/hr
PA IV Scrubber	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	20-02-21	20-09-21
TOC (mg/m3)	150	ND	ND	ND	ND	ND	ND
TPM	150	22	24.8	22.2	20.6	17.4	24.2
ND- Not Detected							

Stack Emission Monitoring DG 2250 KVA							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
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)		146 °C	149 °C	311°C	140 °C	106 °C	145 °C
Velocity m/sec		7.13 m/sec	7.15 m/sec	8.33 m/sec	8.55 m/sec	6.11 m/sec	7.02 m/sec
Flow m3/hr.		3580.56 m^3/hr.	3567.81 m^3/hr.	3004.47 m^3/hr.	4357.17 m^3/hr.	3395.95 m^3/hr.	3394.43 m^3/hr.
Fuel Used		HSD	HSD	HSD	HSD	HSD	HSD
DG	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	**26-08-21**	**20-09-21**
TPM(mg/Nm3)	100	51.7	55.4	57.4	63	57	61.3
Nox conc (mg/Nm3)	450	12.5	15.6	16.6	14.5	16.6	14.5
SO2 mg/Nm3	1700	3.86	3.84	3.7	6.03	5.75	4.18
CO mg/Nm3	200	2	2.4	3	3.1	2.9	2.8

Stack Emission Monitoring DG 2000 KVA							
Physical Data:		**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
Stack Height (m)		15 m	15 m	15 m	15 m	15 m	15 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)		134°C	144 °C	147 °C	150 °C	100 °C	139 °C
Velocity m/sec		6.58 m/sec	7.03 m/sec	7.22 m/sec	8.25 m/sec	6.28 m/sec	7.28 m/sec
Flow m3/hr.		3405.86 m^3/hr.	3549.91 m^3/hr.	3620.45 m^3/hr.	4108.49 m^3/hr.	3538.79 m^3/hr.	3573.94 m^3/hr.
Fuel Used		HSD	HSD	HSD	HSD	HSD	HSD
DG 2000 KVA	**Limiting standard**	**Apr-21**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**
		21-04-21	31-05-21	23-06-21	16-07-21	**26-08-21**	**20-09-21**
TPM(mg/Nm3)	100	58.2	54.2	56.1	59	56.3	57.3
Nox conc (mg/Nm3)	450	16.6	13.5	11.4	15.6	12.5	15.6
SO2 mg/Nm3	1700	3.67	3.28	3.9	5.06	3.81	6.6
CO mg/Nm3	200	1.5	2	2.8	2.5	2.6	4.2

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

ANNEXURE III

A) DATA ON WATER CONSUMPTION

PERIOD: APRIL-2021 TO SEPT-2021

MIDC Raw water receipt (April-2021 to Sept-2021)		
Month	**Raw water per month**	**Raw water per day**
April-21	95030	3167.66
May-21	110490	3564.19
June-21	104840	3494.66
July-21	99390	3206.12
Aug-21	111980	3612.25
Sept-21	99130	3304.33
Average	103476.66	3391.54

B) DATA ON EFFLUENT GENERATION

PERIOD: APRIL-2021 TO SEPT-2021

CONSENTED EFFLUENT DISCHARGE TO CETP- 220 M3/DAY

Effluent discharged to CETP (April-2021 to Sept-2021)		
Month	**Effluent per month**	**Effluent per day**
April-21	6034	191
May-21	6361	209
June-21	6107	212
July-21	6303	213
Aug-21	5984	209
Sept-21	6202	207
Average	6165.16	206.83

ANNEXURE – IV

RESIDUE GENERATION DATA

PERIOD – APRIL-2021 TO SEPT 2021

Month	Residue Generation (MT/M)	MPCB LIMIT (MT/M)
Apr-21	332.24	455.65
May-21	232.27	455.65
Jun-21	272.63	455.65
Jul-21	310.16	455.65
Aug-21	337.84	455.65
Sep-21	284.43	455.65

ANNEXURE - V

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EM781411451IN BNo:4977178141145
SPP [illegible] A.O. S.O <410206>
Counter No:1,01/06/2021,12:17
To:[illegible] [illegible],[illegible]
PIN:390023, Subhanpura SO
From:[illegible],[illegible]
Wt:72gms
Amt:304.20(Cash)Tax:[illegible]
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay [illegible]

EM781410264IN BNo:4977178141026
SPP [illegible] A.O. S.O <410206>
Counter No:1,01/06/2021,12:17
To:THE DIRECTOR,A[illegible]
PIN:110003, Lodi Road HO
From:[illegible],[illegible]
Wt:735gms
Amt:141.60(Cash)Tax:21.60
<Track on www.indiapost.gov.in>
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EM781409131IN BNo:4977178140913
SPP [illegible] A.O. S.O <410206>
Counter No:1,01/06/2021,12:17
To:THE MEMBER SECRETARY,KA[illegible]
PIN:400022, Sion SO
From:[illegible],[illegible]
Wt:52gms
Amt:47.20(Cash)Tax:7.20
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay [illegible]

Dhairyasheel

From: Dhairyasheel <drshinde@igpetro.com>
Sent: 01 June 2021 11:28
To: eccompliance-mh@gov.in
Subject: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Attachments: EC COMPLIANCE REPORT - OCT 2020 TO MAR 2021.pdf

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

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

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

Dear Sir,

With reference to the above we are submitting herewith our half yearly compliance status report as per condition stipulated in Environmental Clearance for period of **Oct 2020 – Mar 2021.** We hope the above is to your satisfaction.

Thanking You,

Yours faithfully
FOR I. G. PETROCHEMICALS LTD

(AJIT BAGADE)
PRESIDENT OPERATIONS

CC to:

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

Dhairyasheel

From: Dhairyasheel <drshinde@igpetro.com>
Sent: 01 June 2021 11:38
To: archituprit.cpcb@nic.in
Subject: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Attachments: EC COMPLIANCE REPORT - OCT 2020 TO MAR 2021.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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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 2020 – Mar 2021.** We hope the above is to your satisfaction.

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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.**

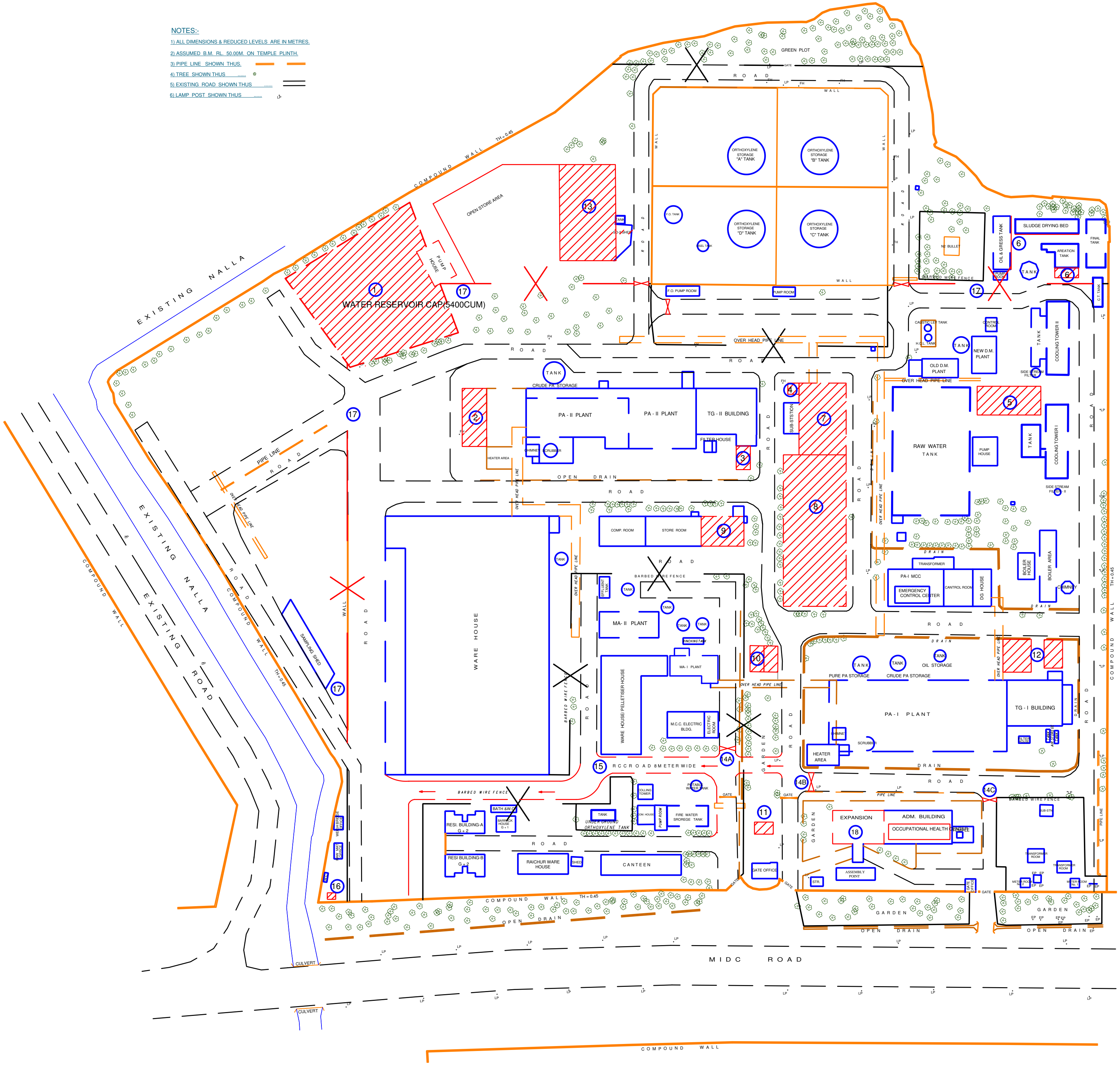
ANNEXURE - VI

Photographs of Raw Material Storage


POCO
SHOT ON POCO M2


POCO
SHOT ON POCO M2

ANNEXURE-VII



PROPOSED EXPANSION FOR PA - 3 PLANT.

DETAILS :-

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

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

SCALE :- 1 : 500

DATE :- 03-05-2007

survey by : m.b. andurlekar & associates.
4/151, Nehru Nagar, Kurla (E), Mumbai-400 024 off.2617 7805 // Resi.2524 1247

Job No 2007/244

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.

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(MS) Charuta Gaiki From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-1	Mr. Akhil Ingale	M	45						26-Jul-2021 /Fit			
S-2	Mr. M.H. Daravkar	M	30						26-Jul-2021 /Fit			
S-3	Mr. A.G. Deshmukh	M	52						26-Jul-2021 /Fit			
S-4	Mr.Subramanium Mudliar	M	59						26-Jul-2021 /Fit			
S-5	Mr. Rishikesh Patil	M	27						26-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
S-6	Mr. Shashikant Sutar	M	53						26-Jul-2021 /Fit			
S-7	Mr. A.A. Bhambure	M	31						26-Jul-2021 /Fit			
S-8	Mr. G.B. Khatode	M	44						26-Jul-2021 /Fit			
S-9	Mr. R.D. Gautam	M	37						26-Jul-2021 /Fit			
S-10	Mr. K.S. Patil	M	54						26-Jul-2021 /Fit			
S-11	Mr. Kishor Borade	M	49						26-Jul-2021 /Fit			
S-12	Mr. Vipul Panchal	M	28						26-Jul-2021 /Fit			
S-13	Mr. M.R. Patel	M	35						26-Jul-2021 /Fit			
S-14	Mr.N.S.Mahamuni	M	31						26-Jul-2021 /Fit			
S-15	Mr. Uday Hande	M	26						26-Jul-2021 /Fit			
S-16	Mr. Kiran Kanherkar	M	29						26-Jul-2021 /Fit			
S-17	Mr.Kumar Thakur	M	28						26-Jul-2021 /Fit			
S-18	Mr.S.M.Suryawanshi	M	27						26-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
S-19	Mr.Jagdish B.Patil	M	38						26-Jul-2021 /Fit			
S-20	Mr. Abhijit Ghagare	M	28						26-Jul-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaikl From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-21	Mr.Shivraj Ghagare	M	27						26-Jul-2021 /Fit			
S-22	Mr. Suraj Bendle	M	25						26-Jul-2021 /Fit			
S-23	Mr.Yogesh Sonawane	M	33						26-Jul-2021 /Fit			
S-24	Mr. Vasudeo Sarda	M	43						26-Jul-2021 /Fit			
S-25	Mr. Ashok Pulusu	M	49						26-Jul-2021 /Fit			
S-26	Mr. Amit Kumar	M	39						26-Jul-2021 /Fit			
S-27	Mr.Amol Suryawanshi	M	32						26-Jul-2021 /Fit			
S-28	Mr. Anil Kr Gupta	M	57						26-Jul-2021 /Fit			
S-29	Mr. Ranjeet Thakur	M	33						26-Jul-2021 /Fit			
S-30	Mr. Premnath Mithare	M	43						26-Jul-2021 /Fit			
S-31	Mr.Abhik B.Dhane	M	24						26-Jul-2021 /Fit			
S-32	Mr. S. D. Nagvekar	M	39						26-Jul-2021 /Fit			
S-33	Mr. Mohit Kr Singh	M	30						26-Jul-2021 /Fit			
S-34	Mr. Sandeep Kadam	M	33						26-Jul-2021 /Fit			
S-35	Mr. Siddhesh Gharat	M	28						26-Jul-2021 /Fit			
S-36	Mr. Suraj Jagtap	M	29						26-Jul-2021 /Fit			
S-37	Mr. Rajesh Bagari	M	39						26-Jul-2021 /Fit			
S-38	Mr.Gabbar Singh Panwar	M	51						26-Jul-2021 /Fit			
S-39	Mr. Rajendran G.	M	46						26-Jul-2021 /Fit			
S-40	Mr. D.M. Mhatre	M	40						26-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. CAIKI
MS(ENT)AFIH
Reg. No. 65465
Certifying Surgeon

Dr (Mrs) CHARUTA P. CAIKI
MS(ENT)AFIH
Reg. No. 65465
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaiki From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reasons for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-41	Mr. Kamlesh Pareek	M	48						26-Jul-2021 /Fit			
S-42	Mr. Rupak Kamik	M	35						26-Jul-2021 /Fit			
S-43	Mr. Dharma Narsingh	M	52						26-Jul-2021 /Fit			
S-44	Mr. S.R. Nadkarni	M	55						26-Jul-2021 /Fit			
S-45	Ms. Megha Vinarkar	F	38						26-Jul-2021 /Fit			
S-46	Mr. Aniket A. Patil	M	33						26-Jul-2021 /Fit			
S-47	Mr. Vaibhav Patil	M	39						26-Jul-2021 /Fit			
S-48	Mr. Shriram Thakur	M	33						26-Jul-2021 /Fit			
S-49	Ms. Mini C.Warriar	F	52						26-Jul-2021 /Fit			
S-50	Mr. Jaywant Bhoge	M	32						26-Jul-2021 /Fit			
S-51	Mr. Atul Bhagat	M	30						26-Jul-2021 /Fit			
S-52	Mr. Paras Jain	M	54						26-Jul-2021 /Fit			
S-53	Mr. Mahesh Somani	M	58						26-Jul-2021 /Fit			
S-54	Mr.Shankarlal Sharma	M	35						26-Jul-2021 /Fit			
S-55	Mr.Nishit Chudasama	M	28						26-Jul-2021 /Fit			
S-56	Mr. Amav Tathare	M	31						26-Jul-2021 /Fit			
S-57	Mr. Aniket Bhoir	M	25						26-Jul-2021 /Fit			
S-58	Mr. N. Mahapatra	M	33						26-Jul-2021 /Fit			
S-59	Mr. Pankaj Kr Jha	M	29						26-Jul-2021 /Fit			
S-60	Mr. Pawan Chaudhary	M	35						26-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. CAIKI
MS(ENT)AFIH
Reg. No. 85465
Certifying Surgeon

Dr (Mrs) CHARUTA P. CAIKI
MS(ENT)AFIH
Reg. No. 85465
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaiki From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-61	Mr. Bilal A.Shaikh	M	53						26-Jul-2021 /Fit			
S-62	Mr. Jagdish Mate	M	32						26-Jul-2021 /Fit			
S-63	Mr. Santosh Temghare	M	37						26-Jul-2021 /Fit			
S-64	Mr. Milind Patil	M	47						26-Jul-2021 /Fit			
S-65	Mr. Narendra B.	M	39						26-Jul-2021 /Fit			
S-66	Mr. Krisnam Raju	M	29						26-Jul-2021 /Fit			
S-67	Mr. Ranjeet Bhandari	M	29						26-Jul-2021 /Fit			
S-68	Mr. Nitin N. Patil	M	30						26-Jul-2021 /Fit			
S-69	Mr. Alaya Kathua	M	43						26-Jul-2021 /Fit			
S-70	Mr. Sudhir Rane	M	49						26-Jul-2021 /Fit			
S-71	Mr.S.S.Wankhede	M	40						26-Jul-2021 /Fit			
S-72	Mr. C.K. Joshi	M	55						26-Jul-2021 /Fit			
S-73	Mr. Bhaskar Gharat	M	56						26-Jul-2021 /Fit			
S-74	Mr. Kaushal Bhatt	M	56						26-Jul-2021 /Fit			
S-75	Mr. Rajesh Purwar	M	52						26-Jul-2021 /Fit			
S-76	Mr. Manish Sawant	M	50						26-Jul-2021 /Fit			
S-77	Mr. Yogesh Kachare	M	29						26-Jul-2021 /Fit			
S-78	Mr. K.G. Vivek	M	30						26-Jul-2021 /Fit			
S-79	Mr. Romit Thakur	M	29						26-Jul-2021 /Fit			
S-80	Mr. Ashish Somani	M	27						26-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. CAIKI
MS(ENT)AFIH
Reg. No. 65465
Certifying Surgeon

Dr (Mrs) CHARUTA P. CAIKI
MS(ENT)AFIH
Reg. No. 65465
Certifying Surgeon

Form – 07

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Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaiki From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-81	Mr. Pankaj Patil	M	36						26-Jul-2021 /Fit			
S-82	Mr.Bindeshwar Shah	M	49						26-Jul-2021 /Fit			
S-83	Mr.Hanmant Suryavanshi	M	38						26-Jul-2021 /Fit			
S-84	Mrs. Madhumati K.	F	56						27-Jul-2021 /Fit			
S-85	Mr.Jayaswal Amitkumar	M	28						27-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT) DNB Reg. No. 85 Certifying Surgeon	
S-86	Mr. Karthisairaj	M	37						27-Jul-2021 /Fit			
S-87	Mr. Sandesh Kadam	M	29						27-Jul-2021 /Fit			
S-88	Mr. Rahul Bhagat	M	28						27-Jul-2021 /Fit			
S-89	Mr. Pankaj Bhootra	M	46						27-Jul-2021 /Fit			
S-90	Mr. Vijay G.Kasar	M	55						27-Jul-2021 /Fit			
S-91	Mr. Praful Khaire	M	25						27-Jul-2021 /Fit			
S-92	Mr. V.V. Lad	M	28						27-Jul-2021 /Fit			
S-93	Mr. Ajit A.Dadas	M	28						27-Jul-2021 /Fit			
S-94	Mr. Darshan H.	M	30						27-Jul-2021 /Fit			
S-95	Mr.Azaruddin Sande	M	27						27-Jul-2021 /Fit			
S-96	Mr. Nilesh Chaudhari	M	30						27-Jul-2021 /Fit			
S-97	Mr. Paresh Lad	M	31						27-Jul-2021 /Fit			
S-98	Mr. Sanjay Jagtap	M	46						30-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT) DNB Reg. No. 85 Certifying Surgeon	
S-99	Mr. Anil Mahadik	M	51						30-Jul-2021 /Fit			
S-100	Mr. Yogesh Patil	M	40						30-Jul-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaiki From 30/07/2021 To 29/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-101	Mr. P. Rajesh	M	38						30-Jul-2021 /Fit			
S-102	Mr. V.S. Reddy	M	47						30-Jul-2021 /Fit			
S-103	Mr. S. B. Dhansure	M	53						30-Jul-2021 /Fit			
S-104	Mr. Vishal Ashture	M	26						30-Jul-2021 /Fit			
S-105	Mr. Santosh Pandey	M	50						30-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)-FIH Reg. No. 65465 Certifying Surgeon	
S-106	Mr. Rohit Patil	M	35						30-Jul-2021 /Fit			
S-107	Mr.A.S.P.Kumar	M	49						30-Jul-2021 /Fit			
S-108	Mr. Bandaru Srinivas	M	58						30-Jul-2021 /Fit			
S-109	Mr. Kiran Patil	M	25						30-Jul-2021 /Fit			
S-110	Mr. Kalyan Kharade	M	27						30-Jul-2021 /Fit			
S-111	Mr.Bhikamchand Mutha	M	52						30-Jul-2021 /Fit			
S-112	Mr. Mukesh Patil	M	26						30-Jul-2021 /Fit			
S-113	Mr. D. R. Shinde	M	44						30-Jul-2021 /Fit			
S-114	Mr.Vaibhav Gadegaonkar	M	26						30-Jul-2021 /Fit			
S-115	Mr. R. M. Jage	M	50						30-Jul-2021 /Fit			
S-116	Mr. Rushikesh Patil	M	25						30-Jul-2021 /Fit			
S-117	Mr. Tushar Patil	M	29						30-Jul-2021 /Fit			
S-118	Mr.Ramkrishna Shedbale	M	51						30-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)-FIH Reg. No. 65465 Certifying Surgeon	
S-119	Mr. Pradeep Salunkhe	M	55						30-Jul-2021 /Fit			
S-120	Mr. Anuj Gupta	M	25						30-Jul-2021 /Fit			

Form – 07

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Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

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S-121	Mr. Rohit Soni	M	44						30-Jul-2021 /Fit			
S-122	Mr.Vijaykumar Bhatt	M	55						30-Jul-2021 /Fit			
S-123	Mr. Sujay Bagwe	M	32						31-Jul-2021 /Fit			
S-124	Mr. Vitthal Rane	M	58						31-Jul-2021 /Fit			
S-125	Mr.S.S. Kulkarni	M	52						31-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
S-126	Mr. Atul Mawande	M	56						31-Jul-2021 /Fit			
S-127	Mr. Yogesh Desai	M	45						31-Jul-2021 /Fit			
S-128	Mr. Suraj Dapake	M	26						31-Jul-2021 /Fit			
S-129	Mr. Rahul Patil	M	24						31-Jul-2021 /Fit			
S-130	Mr. Avinash Khade	M	27						31-Jul-2021 /Fit			
S-131	Mr. Akshay Ghorpade	M	25						31-Jul-2021 /Fit			
S-132	Mr. Mohan Khati	M	54						31-Jul-2021 /Fit			
S-133	Mr. N.V.Deshmukh	M	57						31-Jul-2021 /Fit			
S-134	Mr.Laxmikant Naik	M	31						31-Jul-2021 /Fit			
S-135	Mr. Shriram Pawar	M	27						31-Jul-2021 /Fit			
S-136	Mr. Ganesh Kawade	M	31						31-Jul-2021 /Fit			
S-137	Mr. Manish Tiwari	M	44						11-Aug-2021 /Fit			
S-138	Mr. Shailesh Chaudhary	M	41						11-Aug-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
S-139	Mr. S. P. Surve	M	52						11-Aug-2021 /Fit			
S-140	Mr.A.R.Suradkar	M	36						11-Aug-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaiki From 11/08/2021 To 10/08/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
S-141	Mr. V. B. Patil	M	29						11-Aug-2021 /Fit			
S-142	Mr.R.S.Shendge	M	25						11-Aug-2021 /Fit			
S-143	Mr. N. P. Umale	M	39						11-Aug-2021 /Fit			
S-144	Mr. N. S. Pande	M	45						11-Aug-2021 /Fit			
S-145	Mr. B. C. Patil	M	30						11-Aug-2021 /Fit			
S-146	Mr. R. S. Pinjari	M	34						11-Aug-2021 /Fit			
S-147	Mr. G. J. Patil	M	32						11-Aug-2021 /Fit			
S-148	Mr.R.D.Chougale	M	27						11-Aug-2021 /Fit			
S-149	Mr. Nitesh Mali	M	27						11-Aug-2021 /Fit			
S-150	Mr.Prabhakar Parise	M	44						11-Aug-2021 /Fit			
S-151	Mr. Anil Pandey	M	46						11-Aug-2021 /Fit			
S-152	Mr. R.C. Pinto	M	48						11-Aug-2021 /Fit			

Dr (Mrs) CHARUTA P. GAIKI
MD(ENT)AFIH
Reg. No. 65463
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaikl From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If cerificate of illness or suspension issued to worker, signature with date of certifying surgeon
1	Mr. Kishor Madhavi	M	49						26-Jul-2021 /Fit			
2	Mr. Jairam Sharma	M	53						26-Jul-2021 /Fit			
3	Mr.P.B.Ghangrekar	M	55						26-Jul-2021 /Fit			
4	Mr. Umesh Mhatre	M	38						26-Jul-2021 /Fit			
5	Mr. N. R. Kadam	M	52						26-Jul-2021 /Fit			
6	Mr. Mahadeo Thorat	M	54						26-Jul-2021 /Fit			
7	Mr.Anand Kr Upadhyay	M	47						26-Jul-2021 /Fit			
8	Mr. Hasanain	M	34						26-Jul-2021 /Fit			
9	Mr. Premnath Thakur	M	50						26-Jul-2021 /Fit			
10	Mr. Anil Tripathi	M	50						26-Jul-2021 /Fit			
11	Mr. Anil Chandanani	M	54						26-Jul-2021 /Fit			
12	Mr. D. N. Naik	M	54						26-Jul-2021 /Fit			
13	Mr. Girish T.	M	56						26-Jul-2021 /Fit			
14	Mr. Pramod Jadhav	M	49						26-Jul-2021 /Fit			
15	Mr. Rajkishor Kapar	M	46						26-Jul-2021 /Fit			
16	Mr. Bhimashsnkar Naik	M	53						26-Jul-2021 /Fit			
17	Mr. Abodh S. Raut	M	49						26-Jul-2021 /Fit			
18	Mr. Deepak Gurjar	M	46						26-Jul-2021 /Fit			
19	Mr. Dilip S. Bhoir	M	38						26-Jul-2021 /Fit			
20	Mr. Rishikesh Patil	M	47						26-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 85465
Certifying Surgeon

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 85465
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaiki From 26/07/2021 To 25/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
41	Mr.Vijay Kr Upadhayay	M	55						26-Jul-2021 /Fit			
42	Mr. Anil P. Patil	M	55						26-Jul-2021 /Fit			
43	Mr. N. M. Kulkarni	M	55						26-Jul-2021 /Fit			
44	Mr. Sunil Parte	M	51						26-Jul-2021 /Fit			
45	Mr. Mangesh Mangle	M	45						26-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)MFH Reg. No. 85465 Certifying Surgeon	
46	Mr. S. M. Mundhe	M	27						26-Jul-2021 /Fit			
47	Mr. Tanaji K. Patil	M	39						26-Jul-2021 /Fit			
48	Mr. Sandeep Vaidya	M	48						26-Jul-2021 /Fit			
49	Mr. Lahu Nighukar	M	46						26-Jul-2021 /Fit			
50	Mr. Mohan Patil	M	59						26-Jul-2021 /Fit			
51	Mr. Balasaheb Thote	M	54						26-Jul-2021 /Fit			
52	Mr. Atul P. Bhide	M	50						26-Jul-2021 /Fit			
53	Mr. Rajesh Pradhan	M	49						27-Jul-2021 /Fit			
54	Mr. Janu P. Patil	M	49						27-Jul-2021 /Fit			
55	Mr. Appa Vete	M	55						27-Jul-2021 /Fit			
56	Mr. Pramod Mathur	M	56						27-Jul-2021 /Fit			
57	Mr. Laxman Doke	M	47						27-Jul-2021 /Fit			
58	Mr. Baburao Patil	M	55						27-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)MFH Reg. No. 85465 Certifying Surgeon	
59	Mr. Vinayak Bhoir	M	37						27-Jul-2021 /Fit			
60	Mr. Arjunkumar Jha	M	56						27-Jul-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(mrs) Charuta Gaiki From 27/07/2021 To 26/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
61	Mr. S. S. Nighukar	M	55						27-Jul-2021 /Fit			
62	Mr. C.D. Tambe	M	59						27-Jul-2021 /Fit			
63	Mr. M. R. Pathare	M	52						27-Jul-2021 /Fit			
64	Mr. Anant B. Patil	M	54						27-Jul-2021 /Fit			
65	Mr. Babaso Gurav	M	45						27-Jul-2021 /Fit			
66	Mr. Prakash Patil	M	50						27-Jul-2021 /Fit			
67	Mr. Rama Balkar	M	51						27-Jul-2021 /Fit			
68	Mr. Ashok Nighukar	M	51						27-Jul-2021 /Fit			
69	Ms. Meena Shrivas	F	53						27-Jul-2021 /Fit			
70	Mr. N. G. Lad	M	50						27-Jul-2021 /Fit			
71	Mr. Namdeo Patil	M	59						27-Jul-2021 /Fit			
72	Mr. Parag Kambli	M	45						27-Jul-2021 /Fit			
73	Mr. Dharma Bhoir	M	55						27-Jul-2021 /Fit			
74	Mr. Rajesh Patil	M	50						27-Jul-2021 /Fit			
75	Mr. Anand Kr Tiwari	M	51						27-Jul-2021 /Fit			
76	Mr. Shankar Patil	M	58						27-Jul-2021 /Fit			
77	Mr. Dolfi Vaz	M	51						27-Jul-2021 /Fit			
78	Mr.Pradip Mazumdar	M	59						27-Jul-2021 /Fit			
79	Mr. Ashok Dhawale	M	55						27-Jul-2021 /Fit			
80	Mr. Santosh Patil	M	53						27-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 85485
Certifying Surgeon

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 85485
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaiki From 30/07/2021 To 29/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
81	Mr. Laxmikant Tiwari	M	49						30-Jul-2021 /Fit			
82	Mr. Dilip M. Patil	M	51						30-Jul-2021 /Fit			
83	Mr. M.R.Nighukar	M	48						30-Jul-2021 /Fit			
84	Mr. Vasudeo Patil	M	51						30-Jul-2021 /Fit			
85									/Fit			
86	Mr. Balkrishna Patil	M	55						30-Jul-2021 /Fit			
87	Mr. C.H.Bhoir	M	48						30-Jul-2021 /Fit			
88	Mr. Balkrishna Patil	M	55						30-Jul-2021 /Fit			
89	Mr. Shivram Patil	M	56						30-Jul-2021 /Fit			
90	Mr. Sunil Kamat	M	49						30-Jul-2021 /Fit			
91	Mr. Shashikant Rupale	M	52						30-Jul-2021 /Fit			
92	Mr. Devu Babu	M	55						30-Jul-2021 /Fit			
93	Mr. V. P. Kulkarni	M	55						30-Jul-2021 /Fit			
94	Mr. S. K.Korgaonkar	M	55						30-Jul-2021 /Fit			
95	Mr. Shripad Patil	M	55						30-Jul-2021 /Fit			
96	Mr. Yashwant Raskar	M	48						30-Jul-2021 /Fit			
97	Mr. Ramakant Mhatre	M	53						30-Jul-2021 /Fit			
98	Ms. Pradnya Bhatkar	F	52						30-Jul-2021 /Fit			
99	Mr. Manojkumar Singh	M	53						30-Jul-2021 /Fit			
100	Mr. Ashok Bagal	M	52						30-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 65455
Certifying Surgeon

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 65455
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register : IG Petrochemicals Ltd. T-2, MIDC, Taloja.

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Garki From 11/08/2021 To 10/08/2022

(b) ____________ From ________ To ________

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
101	Mr. M.S.Sonawane	M	52						30-Jul-2021 /Fit			
102	Mr. Vijay Patil	M	49						30-Jul-2021 /Fit			
103	Mr. B.S.Koparkar	M	53						30-Jul-2021 /Fit			
104	Mr. Sandeep Kabadi	M	53						30-Jul-2021 /Fit			
105	Mr.Sunil B.Sonar	M	51						30-Jul-2021 /Fit			
106	Mr. S. K. Shinde	M	52						11-Aug-2021 /Fit		Dr (Mrs) CHARUTA P. GARG	
107	Mr.A.T.Dhawade	M	44						11-Aug-2021 /Fit		MS(ENT) AFIH	
108	Mr. D. D. Patil	M	44						11-Aug-2021 /Fit		Certifying Surgeon	

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaikl From 26/07/2021 To 25/07/2029

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
C-1	Mr. Ganesh Kadam	M	35						26-Jul-2021 /Fit			
C-2	Mr. Vishwanath Patil	M	43						26-Jul-2021 /Fit			
									[illegible]			
C-4	Mr. Prabhudeen	M	22						26-Jul-2021 /Fit			
C-5	Mr.Amit Saltawadekar	M	34						26-Jul-2021 /Fit			
C-6	Mr. Sunil Leinka	M	30						26-Jul-2021 /Fit			
C-7	Mr. Sahadat	M	25						26-Jul-2021 /Fit			
C-8	Mr. Bijay Kumar	M	25						26-Jul-2021 /Fit			
C-9	Mr. Sada Bihari	M	41						26-Jul-2021 /Fit			
C-10	Mr. Mohd. Alam	M	18						26-Jul-2021 /Fit			
C-11	Mr. Lahu Patil	M	52						26-Jul-2021 /Fit			
C-12	Mr. Rohidas Patil	M	52						30-Jul-2021 /Fit			
C-13	Mr. Ravi Gaikwad	M	24						30-Jul-2021 /Fit			
C-14	Mr.Tatya B.Wagh	M	40						30-Jul-2021 /Fit			
C-15	Mr. Diwakar Chalke	M	30						30-Jul-2021 /Fit			
C-16	Mr. Omkar Kudavkar	M	28						30-Jul-2021 /Fit			
C-17	Mr. Rajeev Charvankar	M	24						30-Jul-2021 /Fit			
C-18	Mr. Bipin Vishwakarma	M	23						30-Jul-2021 /Fit			
C-19	Mr. Ajay Chaudhary	M	21						30-Jul-2021 /Fit			
C-20	Mr. Gajanan Humne	M	45						30-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. GAIKI
M.S.(ENT),M.F.R.H.
Reg. No. 65463
Certifying Surgeon

Dr (Mrs) CHARUTA P. GAIKI
M.S.(ENT),M.F.R.H.
Reg. No. 65463
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaikl From 30/07/2021 To 29/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certifcate of illness or suspension issued to worker, signature with date of certifying surgeon
C-21	Mr. Balu Tayde	M	32						30-Jul-2021 /Fit			
C-22	Mr. Ajay Kumar Singh	M	36						30-Jul-2021 /Fit			
C-23	Mr.Harichandra Bhundere	M	40						30-Jul-2021 /Fit			
C-24	Mr. Vikas Dubey	M	26						30-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)APIH Reg. No. 65463 Certifying Surgeon	
C-25	Mr. Manankumar Singh	M	46						30-Jul-2021 /Fit			
C-26	Mr. Jagobanda Jena	M	46						30-Jul-2021 /Fit			
C-27	Mr. Sanjeev Kr. Varma	M	24						30-Jul-2021 /Fit			
C-28	Mr. Mansaram Yadav	M	28						30-Jul-2021 /Fit			
C-29	Mr. Mayur Pawar	M	30						30-Jul-2021 /Fit			
C-30	Mr. Pankaj Katle	M	28						30-Jul-2021 /Fit			
C-31	Mr. S.P.Bandekar	M	52						30-Jul-2021 /Fit			
C-32	Mr. Suren Rabha	M	37						30-Jul-2021 /Fit			
C-33	Mr. Arun Balda	M	45						30-Jul-2021 /Fit			
C-34	Mr.Kailash B.Patil	M	47						30-Jul-2021 /Fit			
C-35	Mr.Gopalsharan Pandey	M	32						30-Jul-2021 /Fit			
C-36	Mr. Sandeep Kumar	M	27						30-Jul-2021 /Fit			
C-37	Mr. Nirmal Kumar	M	29						30-Jul-2021 /Fit			
C-38	Mr. Jitender Singh	M	45						30-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)APIH Reg. No. 65463 Certifying Surgeon	
C-39	Mr. Sonukumar	M	27						30-Jul-2021 /Fit			
C-40	Mr. Hanumant Kedar	M	43						30-Jul-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs). Charuta Gaiki From 30/07/2021 To 29/07/2022

(b) ______ From ______ To ______

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
C-41	Mr. Pappu Bangar	M	24						30-Jul-2021 /Fit			
C-42	Mr.Omprakash Shirsat	M	48						30-Jul-2021 /Fit			
C-43	Mr. Lalaso Durge	M	37						30-Jul-2021 /Fit			
C-44	Mr. Prakash Patil;	M	44						30-Jul-2021 /Fit			
C-45	Mr.Abhishek Kr Singh	M	37						30-Jul-2021 /Fit			
C-46	Mr. C.D. Hazare	M	49						30-Jul-2021 /Fit			
C-47	Mr. Dhirendar Singh	M	39						31-Jul-2021 /Fit			
C-48	Mr. Akash Solankar	M	25						31-Jul-2021 /Fit			
C-49	Mr. Satish Wakmode	M	21						31-Jul-2021 /Fit			
C-50	Mr. Dilip Solankar	M	25						31-Jul-2021 /Fit			
C-51	Mr. Balbhim Solankar	M	45						31-Jul-2021 /Fit			
C-52	Mr. Ashok Waghmode	M	46						31-Jul-2021 /Fit			
C-53	Mr. Balkrishna Dorge	M	39						31-Jul-2021 /Fit			
C-54	Mr. Suryakant Mane	M	29						31-Jul-2021 /Fit			
C-55	Mr. R.K.Chormale	M	45						31-Jul-2021 /Fit			
C-56	Mr.Mangal Dipan Rai	M	51						31-Jul-2021 /Fit			
C-57	Mr Bapurao Dorge	M	47						31-Jul-2021 /Fit			
C-58	Mr. Sattu D. Mude	M	35						31-Jul-2021 /Fit			
C-59	Mr. Sharad Solankar	M	28						31-Jul-2021 /Fit			
C-60	Mr. Kiran A. Bandgar	M	23						31-Jul-2021 /Fit			

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 65465
Certifying Surgeon

Dr (Mrs) CHARUTA P. GAIKI
MS(ENT)AFIH
Reg. No. 65465
Certifying Surgeon

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaiki From 31/07/2021 To 30/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
C-61	Mr. Ashok N. Chaugule	M	35						31-Jul-2021 /Fit			
C-62	Mr. Shantilal K. Galande	M	34						31-Jul-2021 /Fit			
C-63	Mr. Shivappa Wakshe	M	24						31-Jul-2021 /Fit			
C-64	Mr.Prashant W.Dorge	M	23						31-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
C-65	Mr.Sayaji J.Solankar	M	24						31-Jul-2021 /Fit			
C-66	Mr.Tatyoba S.Kachare	M	42						31-Jul-2021 /Fit			
C-67	Mr. Chandrakant Chormale	M	56						31-Jul-2021 /Fit			
C-68	Mr. Arjun B. More	M	37						31-Jul-2021 /Fit			
C-69	Mr. Rajkumar B. Jarag	M	28						31-Jul-2021 /Fit			
C-70	Mr. Datta Thombre	M	39						31-Jul-2021 /Fit			
C-71	Mr. Agutrao R. kolekar	M	55						31-Jul-2021 /Fit			
C-72	Mr. Balkrishna Patil	M	36						31-Jul-2021 /Fit			
C-73	Mr. Sunil Raje	M	40						31-Jul-2021 /Fit			
C-74	Mr. Sunil Raskar	M	29						31-Jul-2021 /Fit			
C-75	Mr. Bhanudas Kulkarni	M	45						31-Jul-2021 /Fit			
C-76	Mr. Bhanudas K. Gole	M	33						31-Jul-2021 /Fit			
C-77	Mr. Sachin Khandekar	M	29						31-Jul-2021 /Fit			
C-78	Mr. Suryakant B. Gawde	M	56						31-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
C-79	Mr. Dhanaji B. Ulwekar	M	45						31-Jul-2021 /Fit			
C-80	Mr. Karamchand Singh	M	55						31-Jul-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (Mrs) Charuta Gaiki From 31/07/2021 To 30/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
C-81	Mr. Baburao Mali	M	52						31-Jul-2021 /Fit			
C-82	Mr. Sarvesh Singh	M	30						31-Jul-2021 /Fit			
C-83	Mr. Ram Pravesh Singh	M	49						31-Jul-2021 /Fit			
C-84	Mr. Ananta Mokal	M	52						31-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
C-85	Mr. Rajaram K. Bangar	M	40						31-Jul-2021 /Fit			
C-86	Mr.D.S.Satpute	M	26						31-Jul-2021 /Fit			
C-87	Mr. Balaji A. Solankar	M	32						31-Jul-2021 /Fit			
C-88	Mr. Tayappa T. Kadam	M	54						31-Jul-2021 /Fit			
C-89	Mr. Santosh J. Patil	M	40						31-Jul-2021 /Fit			
C-90	Mr. Mohan K. Bangar	M	43						31-Jul-2021 /Fit			
C-91	Mr. Balram J. Patil	M	51						31-Jul-2021 /Fit			
C-92	Mr.Ramchandra Patil	M	52						31-Jul-2021 /Fit			
C-93	Mr. Arun B. Patil	M	50						31-Jul-2021 /Fit			
C-94	Mr. Suresh Patil	M	42						31-Jul-2021 /Fit			
C-95	Mr.Ramesh A.Nighukar	M	47						31-Jul-2021 /Fit			
C-96	Mr. Vasant K. Patil	M	52						31-Jul-2021 /Fit			
C-97	Mr. Ramesh K. Patil	M	46						31-Jul-2021 /Fit			
C-98	Mr. Amrut A. Goikar	M	25						31-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
C-99	Mr. Uttam D. Lawate	M	30						31-Jul-2021 /Fit			
C-100	Mr. Lalchand G. Patil	M	43						31-Jul-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (16) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr (mrs) Charuta Gaikl From 31/07/2021 To 30/07/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
C-101	Mr. Shekhar Gawade	M	24						31-Jul-2021 /Fit			
C-102	Mr. Raju Patil	M	33						31-Jul-2021 /Fit			
C-103	Mr. Keshav N. Patil	M	42						31-Jul-2021 /Fit			
C-104	Mr. Vishnu A. Ingale	M	50						31-Jul-2021 /Fit			
C-105	Mr. Shivnath Patil	M	40						31-Jul-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
C-106	Mr. Sachin Balu	M	31						31-Jul-2021 /Fit			
C-107	Mr. Sunil Satpute	M	32						31-Jul-2021 /Fit			
C-108	Mr. Manohar Shinde	M	39						31-Jul-2021 /Fit			
C-109	Mr. Nilesh Raje	M	26						31-Jul-2021 /Fit			
C-110	Mr. Dinesh Gupta	M	24						31-Jul-2021 /Fit			
C-111	Mr. Bapu K. Mitkari	M	27						31-Jul-2021 /Fit			
C-112	Mr. Sachin J. Khandekar	M	26						31-Jul-2021 /Fit			
C-113	Mr. Adhik Kr. Yadav	M	30						11-Aug-2021 /Fit			
C-114	Mr. Upendra Tiwari	M	39						11-Aug-2021 /Fit			
C-115	Mr.Ram Milan Nishad	M	43						11-Aug-2021 /Fit			
C-116	Mr. Satish Pandey	M	19						11-Aug-2021 /Fit			
C-117	Mr. Prabhansh Paswan	M	24						11-Aug-2021 /Fit			
C-118	Mr. Avinash Bhalkar	M	25						11-Aug-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI MS(ENT)AFIH Reg. No. 85465 Certifying Surgeon	
C-119	Mr. Rajesh Kumar	M	45						11-Aug-2021 /Fit			
C-120	Mr.Pradeep Kr.Patra	M	38						11-Aug-2021 /Fit			

Form – 07

PRESCRIBED UNDER RULE (18) 7

Health Register :

(In respect of persons employeed in dangerous opertations under sect. 87)

Name of Certifying Surgeon (a) Dr(Mrs) Charuta Gaiki From 11/08/2021 To 10/08/2022

(b) _____ From _____ To _____

Sr. No	Name	Sex	Age	Date of employment of present work	Date of transfer or leaving to other work	Reason for leaving	Nature of job or occupation	Raw material or by products handled	Date of medical exam and result	If suspended from work state period of suspension with detailed reasons	Certified fit to resume duty on with signature of certifying surgeon	If certificate of illness or suspension issued to worker, signature with date of certifying surgeon
C-121	Mr.Sandeep Kr.Pandey	M	30						11-Aug-2021 /Fit			
C-122	Mr. Santosh Kr. Tiwari	M	34						11-Aug-2021 /Fit			
C-123	Mr. Mohit Gujjar	M	26						11-Aug-2021 /Fit			
C-124	Mr. Sonu Kumar	M	25						11-Aug-2021 /Fit		Dr (Mrs) CHARUTA P. GAIKI	
C-125	Mr. Suraj Pujari	M	23						11-Aug-2021 /Fit		MS(ENT)AFIH	
C-126	Mr. Devanand Sathe	M	28						11-Aug-2021 /Fit		Reg. No. 85485 Certifying Surgeon	

ANNEXURE – IX

Budget For Environment Monitoring and Control

BUDGET FOR ENVIRONMENT MONITORING & CONTROL		
Sr No	**HEADS**	**LACS**
1	Chemicals for ETP, RO & MEE plant operation	160
2	ETP Operation & Maintenance	110
3	Environmental monitoring	25
4	Hazardous waste disposal	110
5	AMC for OCEMS & ETP on line analyzers	05
	TOTAL	**428**

ANNEXURE-X

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

PUBLIC ANNOUNCEMENT

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

नवशक्ति, मुंबई, शनिवार ३० जून २००७

जाहीर सूचना

भारत सरकारच्या वने व पर्यावरण मंत्रालयाने आय.जी. पेट्रोकेमिकल्स लि. टी - २ एम. आय. डी. सी. तळोजा - ४१०२०८ जि. रायगड येथील कारखान्याच्या नियोजित यंत्रसुधारणा व त्यामुळे होणाऱ्या उत्पादन वाढीस मान्यता दिली आहे. 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 सदर्भ अक्षा क्र. J-11011/73/2016-IA-II (I), दिनांक २० फेब्रुवारी २०१८ प्रमाणे दिली आहे. सदर पर्यावरणीय समंती पत्राची प्रत महाराष्ट्र प्रदूषण नियंत्रण मंडळाकडे तसेच मंत्रालयाच्या पर्यावरणीय विभागाच्या http://environmentclearance.nic.in/onlinsearchmodi.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

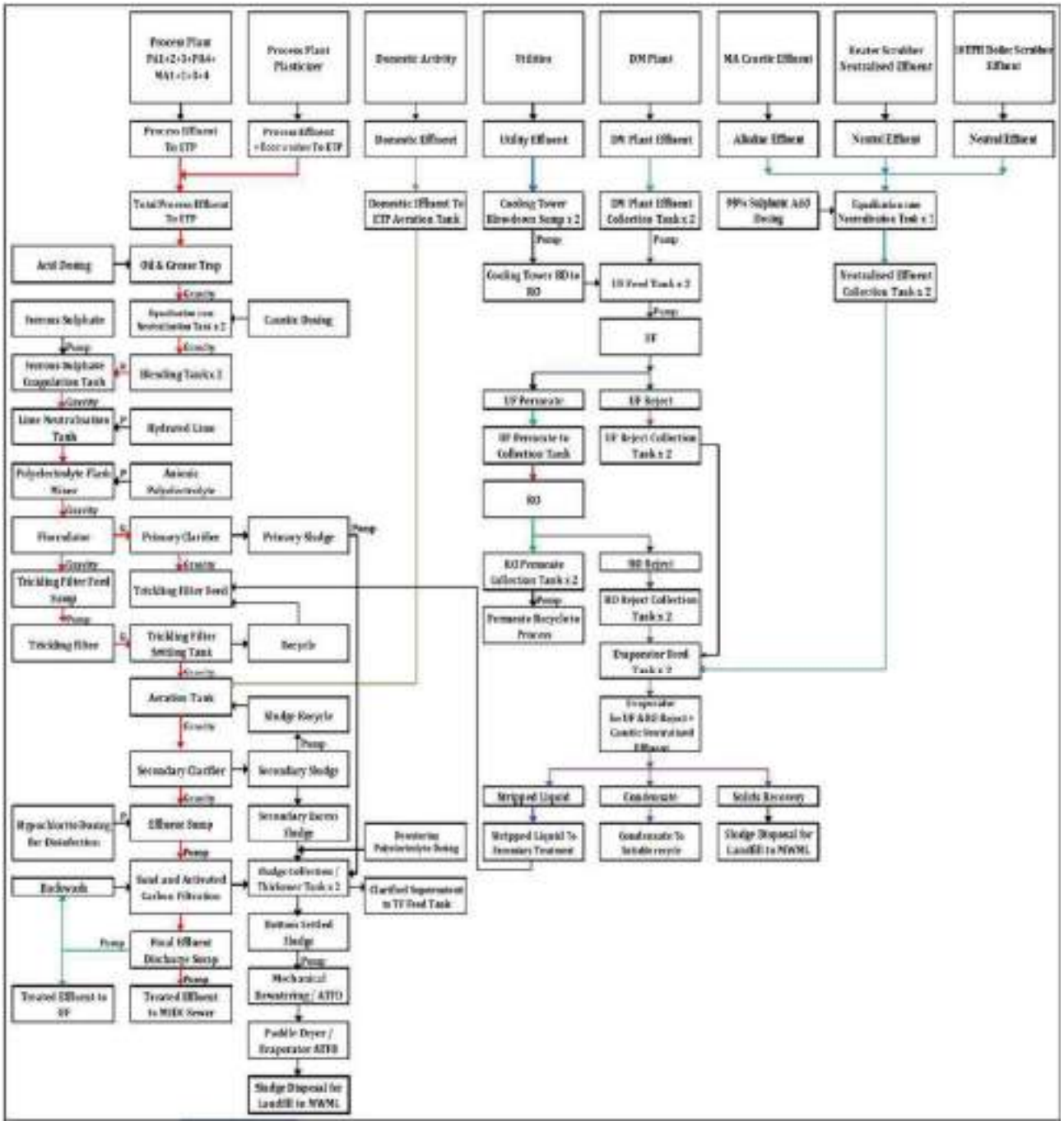
Centrifuge and Filter Press systems are provided for sludge handling. Sludge is collected in bags and filtrate has taken to treatment again in ETP system. Sludge is disposed to sludge disposal site CHWTSDF, Taloja.

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

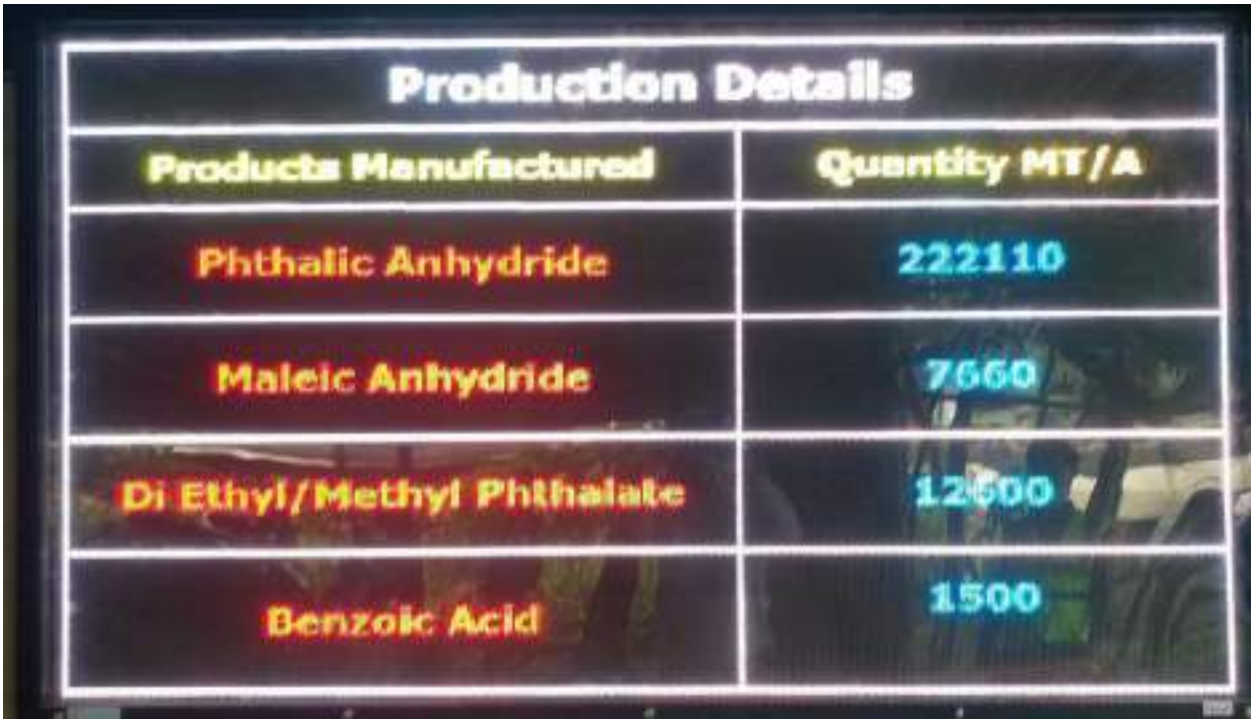
22	Final treated effluent sump (UF Feed)	10 x 10 x 3	1	300	RCC covered tank
23	UF Permeate (RO 1 feed)				RCC covered tank
24	RO Permeate tank	8 x 8 x 3	4	768	RCC covered tank
25	RO Reject Stage 2	5 x 4 x 3	2	120	RCC covered with lining /tiling
26	Evaporator plan area	25 x 7.5	1	187.5	

ETP FLOW DIAGRAM

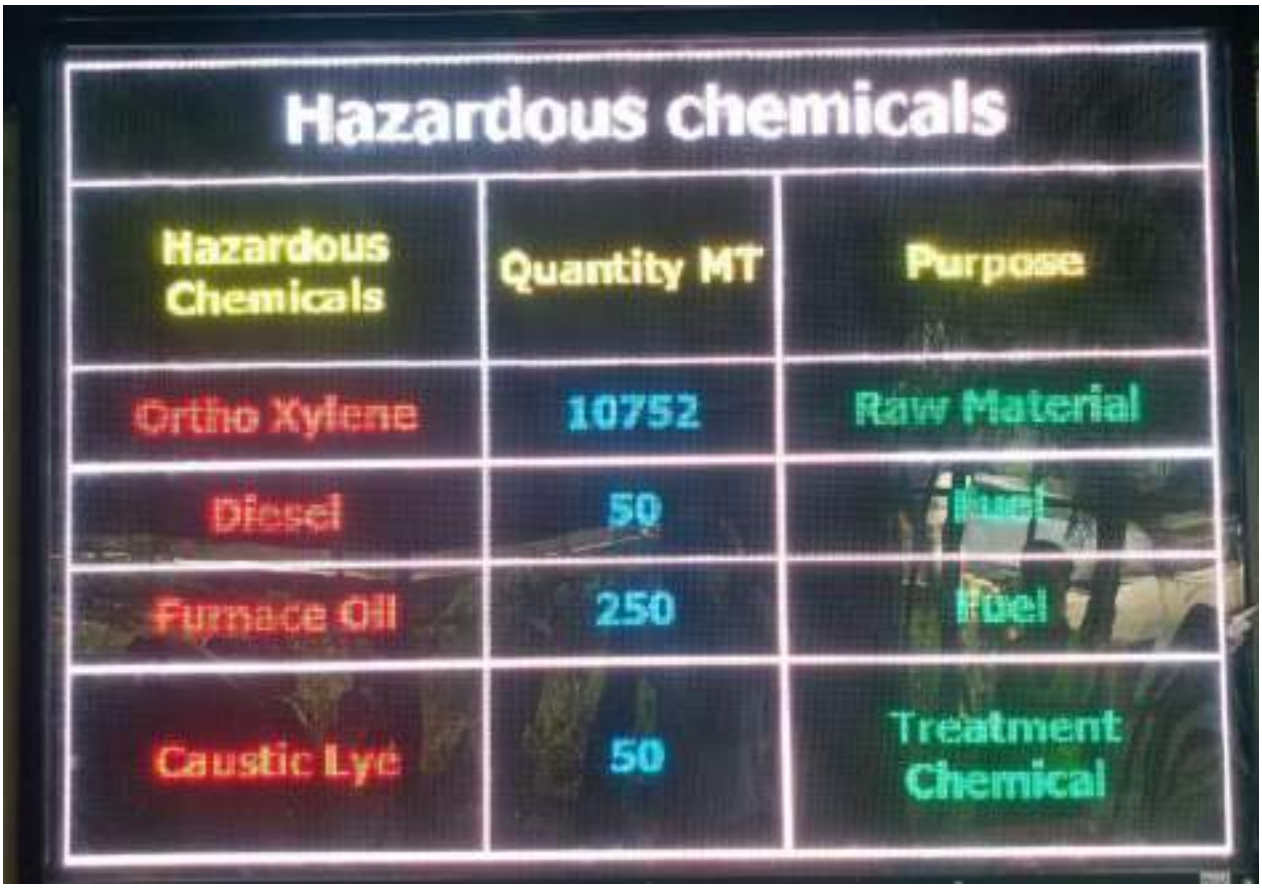


ANNEXURE- XII

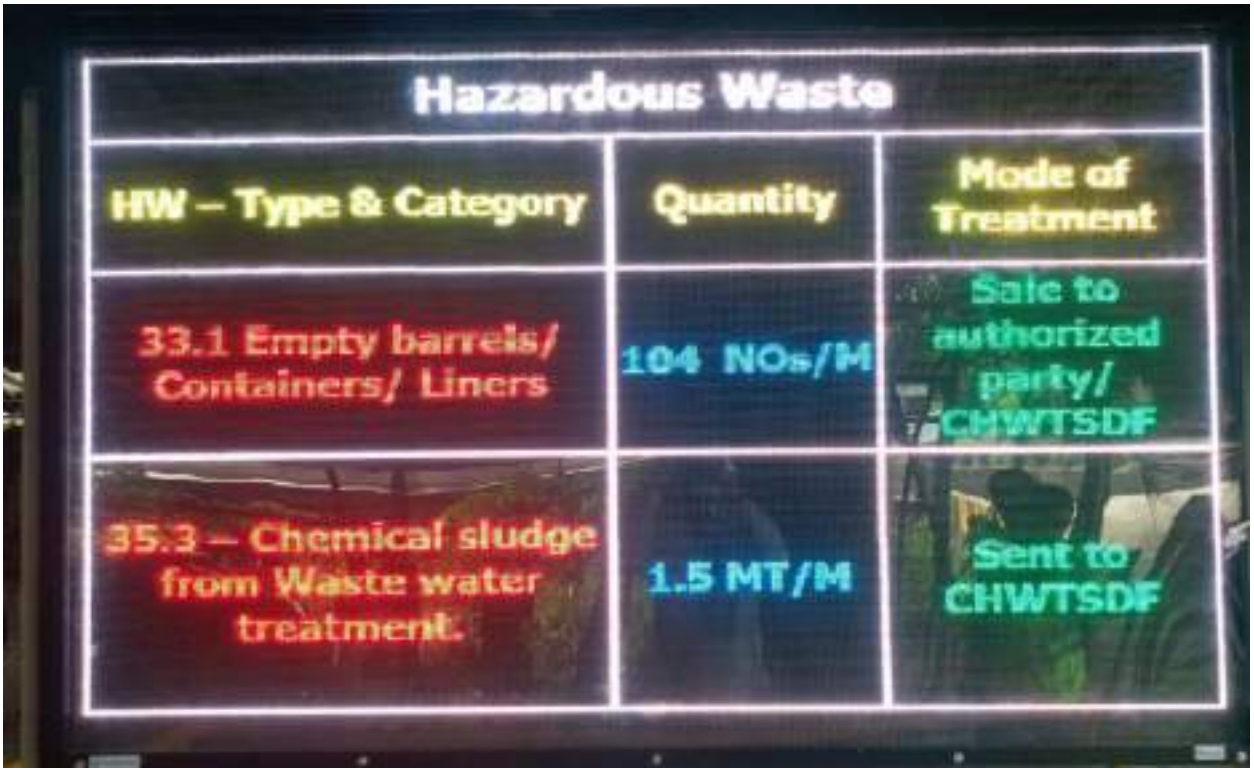
PHOTOGRAPHS OF MPCB DISPLAY BOARD



Production Details	
Products Manufactured	Quantity MT/A
Phthalic Anhydride	222110
Maleic Anhydride	7660
Di Ethyl/Methyl Phthalate	12600
Benzoic Acid	1500

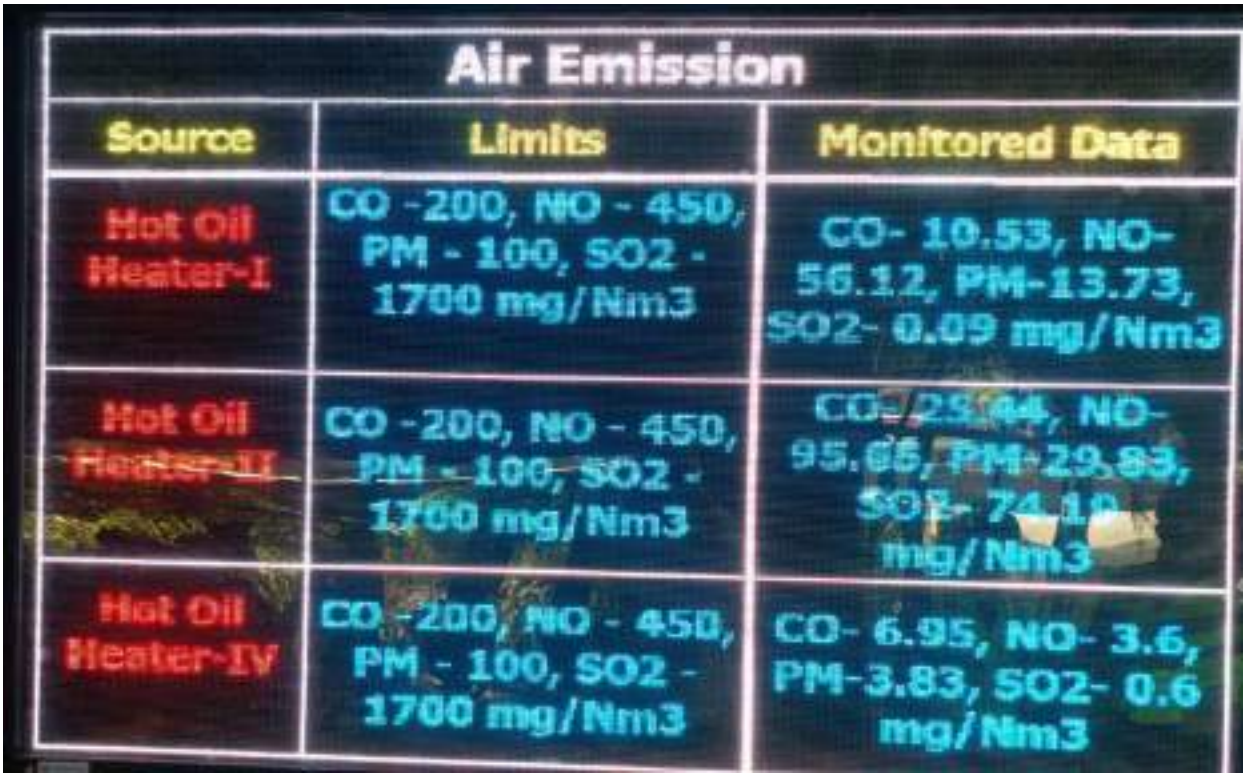


Hazardous chemicals		
Hazardous Chemicals	Quantity MT	Purpose
Ortho Xylene	10752	Raw Material
Diesel	50	Fuel
Furnace Oil	250	Fuel
Caustic Lye	50	Treatment Chemical



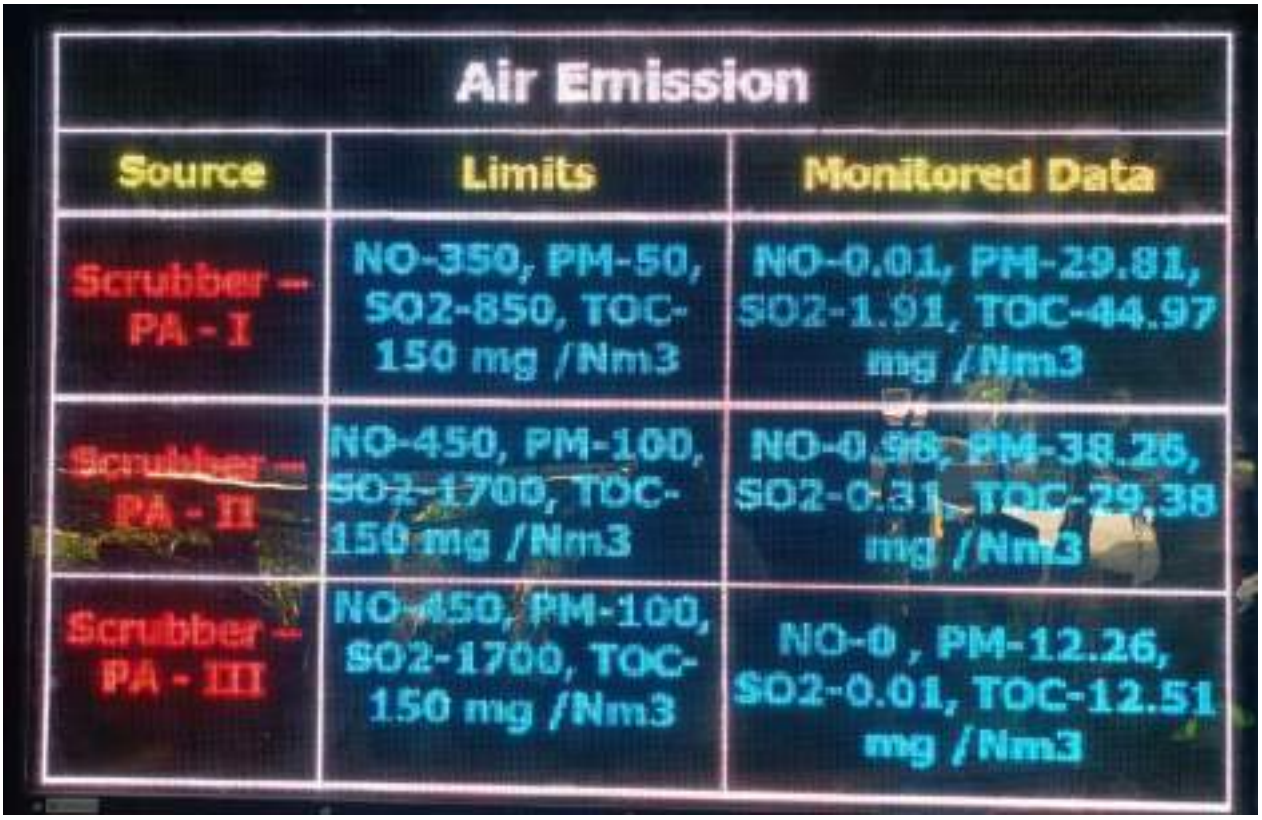
Hazardous Waste

HW – Type & Category	Quantity	Mode of Treatment
33.1 Empty barrels/ Containers/ Liners	104 NOs/M	Sale to authorized party/ CHWTSDF
35.3 – Chemical sludge from Waste water treatment.	1.5 MT/M	Sent to CHWTSDF



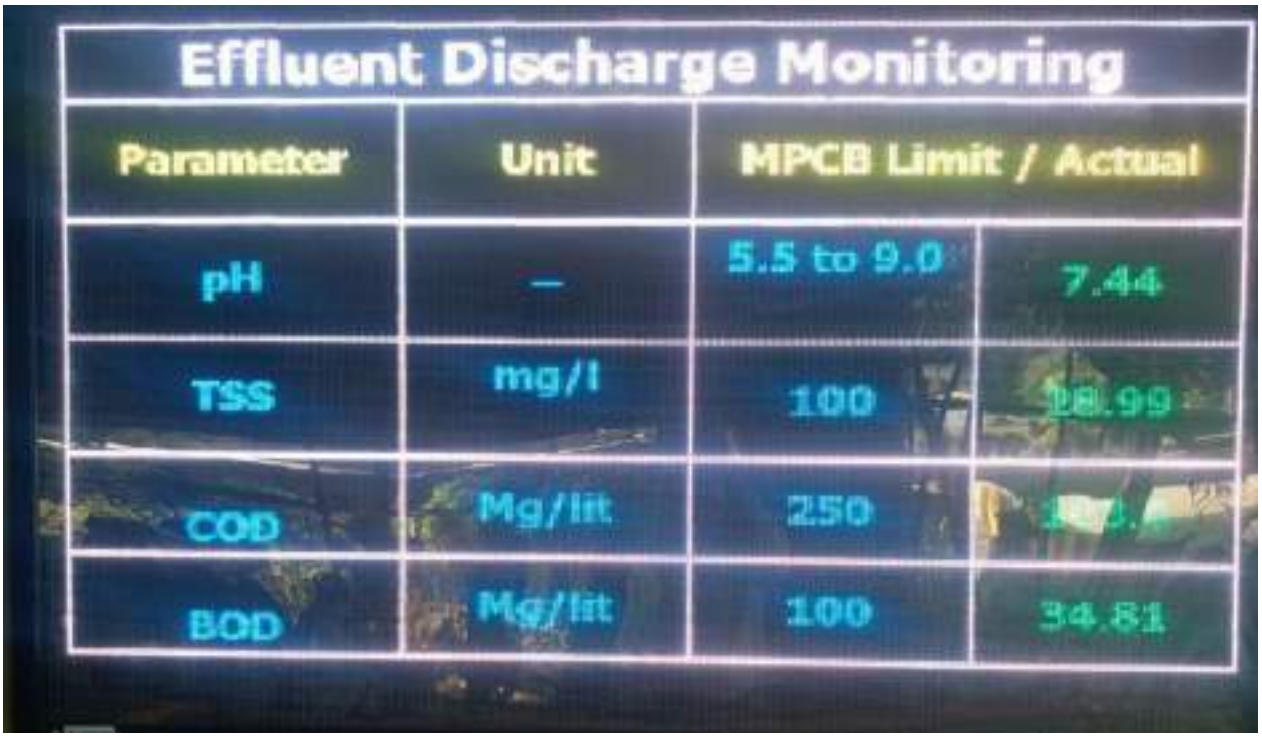
Air Emission

Source	Limits	Monitored Data
Hot Oil Heater-I	CO -200, NO - 450, PM - 100, SO2 - 1700 mg/Nm3	CO- 10.53, NO- 56.12, PM-13.73, SO2- 0.09 mg/Nm3
Hot Oil Heater-II	CO -200, NO - 450, PM - 100, SO2 - 1700 mg/Nm3	CO- 29.44, NO- 95.65, PM-29.83, SO2- 74.10 mg/Nm3
Hot Oil Heater-IV	CO -200, NO - 450, PM - 100, SO2 - 1700 mg/Nm3	CO- 6.95, NO- 3.6, PM-3.83, SO2- 0.6 mg/Nm3



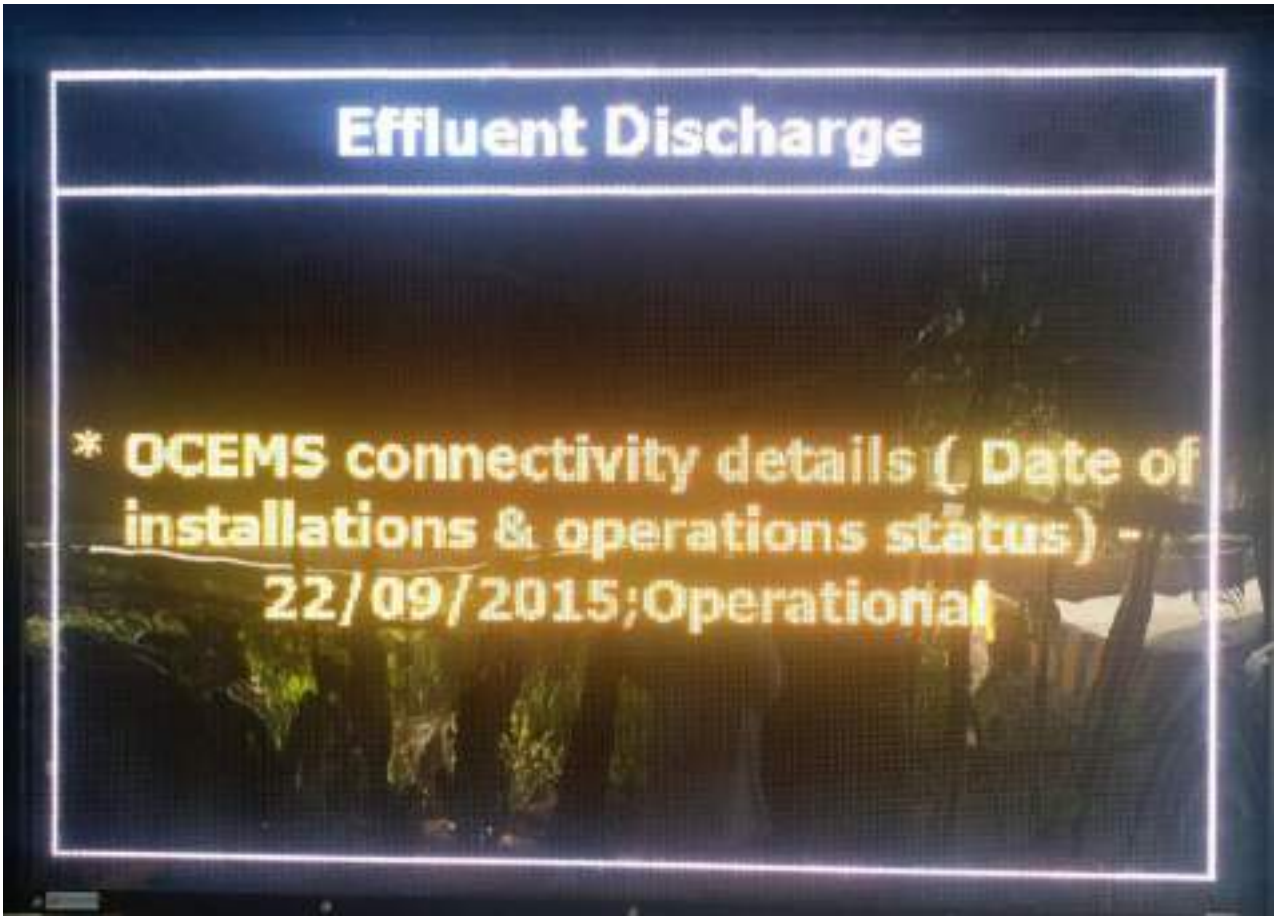
Air Emission

Source	Limits	Monitored Data
Scrubber – PA - I	NO-350, PM-50, SO2-850, TOC-150 mg /Nm3	NO-0.01, PM-29.81, SO2-1.91, TOC-44.97 mg /Nm3
Scrubber – PA - II	NO-450, PM-100, SO2-1700, TOC-150 mg /Nm3	NO-0.98, PM-38.26, SO2-0.31, TOC-29.38 mg /Nm3
Scrubber – PA - III	NO-450, PM-100, SO2-1700, TOC-150 mg /Nm3	NO-0 , PM-12.26, SO2-0.01, TOC-12.51 mg /Nm3



Effluent Discharge Monitoring

Parameter	Unit	MPCB Limit / Actual	
pH	–	5.5 to 9.0	7.44
TSS	mg/l	100	28.99
COD	Mg/lit	250	[illegible]
BOD	Mg/lit	100	34.81


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

ANNEXURE- XIII

RAMKY GROUP

Towards sustainable growth

Mumbai Waste Management Limited

Certificate

M/s. I.G. Petrochemicals Limited.

is a registered member of

CHW-TSDF at MIDC, Taloja

for safe & secure disposal of

Hazardous Waste.

Membership no.: MWML - HzW -TAL- 946

This Certificate is valid up to

31st MAR 2022

Onkar A. Kulkarni
Manager - MBD

Somnath Malgar
Director

An ISO 9001:2015, ISO 14001 : 2015 & ISO 45001 : 2018 Certified Company

MWML Laboratory is accredited by NABL and Approved by MoEF

ANNEXURE-XIV

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-0000022051

Submitted On:
28-06-2021

Submitted for Year:
April 2020 to March 2021

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

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

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

2. Name of the authorised person
Mr J K Saboo

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	jksaboo@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	170571.95	MT/A
Petrochemicals	Benzoic Acid	1500.0000	744.85	MT/A
Petrochemicals	Maleic Anhydride	7660.0000	5381.35	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	3201.44	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	90.000	0	MTA
5.1 Used or spent oil	Used or spent oil	45.000	15.66	MTA
15.2 Discarded asbestos	Discarded asbestos	43.000	0.05	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1240.000	940	numbers/anum
36.2 Spent carbon or filter medium	Spent carbon	93.700	4.84	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	18.000	8.21	MTA
1.4 Organic residues	Organic residue	48.000	83.47	MTA
37.3 Concentration or evaporation residues	Concentration or evaporation residue	3000.000	255.03	MTA
37.1 Sludge from wet scrubbers	Sludge from wet scrubber	5.000	11.56	MTA

Other Hazardous Waste	Discarded bags used for hazardous chemicals	2.500	0.79	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incineration & flue gas cleaning residue	9.500	0	MTA

2. Quantity dispatched category wise.

Type of Waste	***Quantity of waste***	***UOM***	***Dispatched to***	***Facility Name***
1.6 Spent catalyst and molecular sieves	0	MTA	Disposal Facility	Mumbai Waste Management Ltd
5.1 Used or spent oil	15.66	MTA	Recycler or Actual user	Poonam Petrochem Pvt. Ltd.
15.2 Discarded asbestos	0.05	MTA	Disposal Facility	Mumbai Waste Management Ltd
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	2.01	MTA	Disposal Facility	Mumbai Waste Management Ltd
36.2 Spent carbon or filter medium	4.84	MTA	Disposal Facility	Mumbai Waste Management Ltd
35.3 Chemical sludge from waste water treatment	8.21	MTA	Disposal Facility	Mumbai Waste Management Ltd
1.4 Organic residues	83.47	MTA	Disposal Facility	Mumbai Waste Management Ltd
37.3 Concentration or evaporation residues	224.6	MTA	Disposal Facility	Mumbai Waste Management Ltd
37.1 Sludge from wet scrubbers	11.56	MTA	Disposal Facility	Mumbai Waste Management Ltd
Other Hazardous Waste	0.79	MTA	Disposal Facility	Mumbai Waste Management Ltd
Other Hazardous Waste	0	MTA	Disposal Facility	NA
Other Hazardous Waste	0	MTA	Disposal Facility	NA
Other Hazardous Waste	0	MTA	Disposal Facility	NA

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	3195.91	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	5.53	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	2.26	MTA
15.2 Discarded asbestos	Discarded asbestos	0	MTA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	0	MTA
36.2 Spent carbon or filter medium	Spent carbon	0	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	0	MTA
1.4 Organic residues	Organic Residue	0	MTA

37.3 Concentration or evaporation residues	Concentration or evaporation residue	30.43	MTA
37.1 Sludge from wet scrubbers	Sludge from wet scrubber	0	MTA
Other Hazardous Waste	Discarded bags used for hazardous chemicals	0	MTA

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

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

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

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

4. Quantity disposed in landfills as such and after treatment

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

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

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

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

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

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

1. Quantity of waste received during the year

Waste Name/Category	***Country Name***	***State Name***	***Quantity of waste received from domestic sources***	***Quantity of waste imported(If any)***	***Units***
NA	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	2021-06-28	Executive Director

ANNEXURE-XV

MAHARASHTRA POLLUTION CONTROL BOARD

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

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

RED/L.S.I (R57)
No:- Format1.0/CC/UAN No.0000101662/CO - 2107000003

Date: 01/07/2021

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

Your Service is Our Duty

Sub: **Grant of Consent to 1st Operate (Part) for expansion for mfg. of Di Ethyl Phthalate/ Di Methyl Phthalate and amalgamation with existing combined Consent & BMW Authorization.**

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. Previous Consent to Operate accorded vide No. Format 1.0/ CAC/ UAN No. 0000081902/ CO-2003001032 dtd. 16/03/2020.
4. Consent to Establish accorded by Board vide No. Format 1.0/ BO/ CAC-Cell/ UAN No. 0000036672/ 2nd CAC-1808000654 dtd. 16/08/2018.
5. Minutes of Consent Appraisal Committee meeting held on 02 & 05/02/2021.

Your application No.MPCB-CONSENT-0000101662 Dated 04.11.2020

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

1. **The consent to operate is granted for a period up to 31/08/2021**
2. **The capital investment of the project is Rs.1167 Crs. (As per undertaking submitted by pp Existing C.I. Rs. 1132 Crs + Expansion/Increase in C.I. Rs. 35 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

Sr No	Product	Maximum Quantity	UOM
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	Hot Oil Heaters (2 Nos.)	1	As per Schedule -II
3	S-3 to S-10	Process Vents (8 Nos.)	1	As per Schedule -II
4	S-11	D.G. Set (2000 KVA)	1	As per Schedule -II
5	S-12	Hot Oil Heater/ Thermal Oxidizer	1	As per Schedule -II
6	S-13	Process Scrubber	1	As per Schedule -II
7	S-14	PA De-dusting Filter	1	As per Schedule -II
8	S-15	D.G. Set (2500 KVA)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Debris during maintenance activities like insulation/ packing material/ scrap iron etc.	9	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

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
2	1.4 Organic residues	4	MT/M	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	104	No/M	Recycle	Sale to Auth. Party/ 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	By-product Sodium Sulphate	75	MT/M	Recycle	Sale to Auth. Party/ CHWTSDF
12	By-product Phthalic Acid	66.67	MT/M	Recycle	Sale to Auth. Party/ CHWTSDF
13	By-product Mono Ester Salts	250	MT/M	Recycle	Sale to Auth. Party/ CHWTSDF
14	37.1 Sludge from wet scrubbers	0.42	MT/M	Secured Landfill after treatment	CHWTSDF
15	33.1 Discarded Bags used for hazardous chemicals	0.21	MT/M	Incineration	CHWTSDF

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

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

Specific Conditions for used Batteries:

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

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

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

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

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

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

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	IT/ Telecom, Electrical, Electronic wastes	600.00	Kg/M	Sale to Auth. E waste handler/ Recycler

11. **Treatment and Disposal of Biomedical Waste generated to CBMWTSDF:**

Sr.No	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Color coding	Treatment & Disposal
1	Yellow	a) Soiled Waste	10.00	Yellow colored non-chlorinated plastic bags	CBMWTSDF
2	White (Translucent)	Waste sharps including Metals	2.00	Puncture proof, Leak proof, tamper proof container	CBMWTSDF

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

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

14 Industry shall operate and maintain ETP so as to achieve Consented standards.

15 Industry shall recycle 607 CMD treated effluent (including 36 CMD domestic effluent) into process, for cooling tower make up, fire-fighting, utility purposes etc. and restrict discharge of 220 CMD treated effluent to CETP with water metering system for further treatment & disposal.

16 Industry shall carry out HW Audit and submit the report to Board office within three months.

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

18 Bank Guarantee of Rs. 1 Lakh is forfeited for exceeding JVS results and top-up with double the amount of Bank Guarantee.

19 Industry shall extend all the existing BGs obtained towards operation and maintenance of pollution control systems and towards compliance of Consent conditions.

20 Industry shall adopt Cleaner fuel in place of Furnace Oil in compliance with Board's Circular dtd. 20/02/2020.

21 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.

22 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.

23 This consent is issued with overriding effect on earlier Consent to Establish/Operate granted by the Board vide No. Format 1.0/ CAC/ UAN No. 0000081902/ CO-2003001032 dtd. 16/03/2020.

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	75000.00	MPCB-DR-2771	10/11/2020	RTGS

Balance amount of Rs. 12,91,418/- of previous Consent No. Format 1.0/ CAC/ UAN No. 0000081902/ CO-2003001032 dtd. 16/03/2020 will be considered at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Navi Mumbai I
   - 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] The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

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	F.O.	27 MT/Day	4.50	2430.00
S-2	Hot Oil Heaters (2 Nos.)	Stack	31	F.O.	4MT/Day	4.50	360.00
				Distillation Residue	7MT/Day	0.00	0.00
S-3 to S-5	Process Vents (3 Nos.)	Scrubber	50	--	--	--	--
S-6 to S-8	PA De-dusting filter (3 Nos.)	Wet Scrubber	12	--	--	--	--
S-9	MA Bagging	Wet Scrubber	30	--	--	--	--
S-10	MA Flaker	Bag Filter	30	--	--	--	--
S-11	D.G. Set (2000 KVA)	Acoustic Enclosure/ Stack	15	HSD	8.3 MT/Day	1.00	166.00
S-12	Hot Oil Heater/ Thermal Oxidizer	Wet Scrubber	31	HSD	2.5MT/Day	1.00	50.00
				Distillation Residue	4.2MT/Day	0.00	0.00
S-13	Process Vent	Wet Scrubber	50	--	--	--	--
S-14	PA De-dusting filter	Bag Filter	12	--	--	--	--

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO_2 (kg/day)
S-15	D.G. Set (2500 KVA)	Acoustic Enclosure/ Stack	30	HSD	380 Kg/Hr	1.00	182.40

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

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

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

A. Emission from Chimney /stack

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

B. Process Emission (specific from Chimney /stack :

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

C. Load Based Standards :

Sr No.	Parameters	Source	Quantum limit in gm/hour for New/ Expansion Plants (gm/hr)

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	31.08.2021	31.12.2021
2	C2O	200000	Within 15 days	Top-up BG	31.08.2021	31.12.2021

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
1	C2O	2500000	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	100000	for exceeding JVS results

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. The Energy source for lighting purpose shall preferably be LED based
10. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
11. Conditions for D.G. Set
    a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
    b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
    c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
    d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
    e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.

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

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

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

12. The applicant shall maintain good housekeeping.
13. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
14. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
15. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
16. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
17. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
18. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
19. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
20. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
21. The PP shall provide personal protection equipment as per norms of Factory Act
22. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
23. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
24. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
25. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
26. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

27. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
28. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
29. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
30. The industry should not cause any nuisance in surrounding area.
31. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
32. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
33. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
34. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
35. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
36. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
37. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
38. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
39. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

40. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
41. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

ANNEXURE - XV-A

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Application for Consent/ Authorisation

Sir,
I/We hereby apply for*

1. Consent to Establish/Operate/Renewal of consent under section 25 and 26 of the Water (Prevention & Control of Pollution) Act, 1974 as amended.

2. Consent to Establish/Operate/Renewal of consent under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended.

3. Authorization/renewal of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 in connection with my/our/existing/proposed/altered/ additional manufacturing/processing activity from the premises as per the details given below.

Consent Information

UAN No:
MPCB-CONSENT-0000115836

Application submitted on:
15-06-2021

Industry Information

Consent To:
Renewal (Normal)

IIN No.:
0000081902

Submit to:
SRO - Taloja

Type of institution:
Industry

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

Category:
Red

Scale:
L.S.I

EC Reqd.
No

EC Obtained
No

EC Ref. No.
J-11011/73/2016-IA-II(I)

Whether construction-buildup area is more than 20,000 sq.mtr.(Existing Expansion Unit)
Yes

General Information

1. Name, designation, office address with Telephone/Fax numbers, e-mail of the Applicant Occupier/Industry/Institution / Local Body.

Name
J. K. Saboo

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

Designation
Executive Director

Taluka
Raigad

Area
Taloja Industrial Area

District
Raigad

Telephone
9820095731

Fax
27410192/39289148

Email

Pan Number

jksaboo@igpetro.com AAACI4115R

2. (a) Name and location of the industrial unit/premises for which the application is made (Give revenue Survey Number/Plot number name of Taluka and District, also telephone and fax number)

Industry name
I G PETROCHEMICALS LTD

Location of Unit
TALOJA MIDC

Survey number/Plot Number
T - 1 & 2

Taluka
PANVEL

District
Raigad

(b) Details of the planning permission obtained from the local body/Town and Country Planning authority/Metropolitan Development authority/ designated Authority.

Planning permission
MIDC

Planning Authority
MIDC

Name of the local body under whose jurisdiction the unit is located and Name of the licence issuing authority

Name of Local Body
MIDC

Name of the licence issuing authority
MIDC

3. Names,addresses with Telephone and Fax Number of Managing Director / Managing Partner and officer responsible for matters connected with pollution control and/or Hazardous waste disposal.

Name of Managing Director
NIKUNJ DHANUKA

Telephone number
02240586100

Fax number
02222040747

Officer responsible for day to day business
DHAIRYASHEEL SHINDE

4. (a.) Are you registered Industrial unit ?

Yes

Registration number
565/SIA/IMO/2012

Date of registration
Jan 14, 2019

5. Gross capital investment of the unit without depreciation till the date of application (Cost of building, land, plant and machinery). (To be supported by an affidavit/undertaking on Rs.20/- stamp paper, annual report or certificate from a Chartered Accountant for proposed unit(s), give estimated figure)

Gross capital (in Lakh)	**** Verified***	**** Terms***	**** Consent Fee***
116987.58	CA Certificate	1	11698758.00

6. If the site is located near sea-shore/river bank/other water bodies/Highway, Indicate the crow fly distance and the name of the water body, if any.

Distance From	***Distance(Km)***	**** Name***
SH/NH	7.70	Mumbai-Goa
River	4.78	Kasadi River
Human Habitation	1.86	--NA--
Religious Place	0.75	--NA--
Historical Place	5.14	--NA--
Creek/Sea	14.00	Creek/Sea

6b. Enter Latitude and Longitude details of site

Latitude
1900529.14

Longitude
7500733.32

7. Does the location satisfy the Requirements Under relevant Central/State Govt. Notification such as Coastal Regulation Zone. Notification on Ecologically Fragile Area, Industrial Location policy, etc. If so, give details.

Location	Approved Industry Area	Sensitive Area	If Yes, Name Of Area	Industry Location with Reference to CRZ
TALOJA MIDC	Yes	No	NON CRZ, NOTIFIED INDUSTRIAL AREA	

8. If the site is situated in notified industrial estate,

		Details
(a) Whether effluent collection, treatment and disposal system has been provided by the authority.	Yes	Underground MIDC pipeline To TALOJA CETP
(b) Will the applicant utilize the system, if provided.	Yes	
(c) If not provided, details of proposed arrangement.	Own effluent treatment plant is available.	

9.

(a) Total plot area (in squear meter)	(b) Built up area and (in squear meter)	(c) Area available for the use of treated sewage/ trade effluent for gardening/irrigation. (in squear meter)
113282	42510	11328

10. Month and year of commissioning of the Unit.

1992-03-01

11. Number of workers and office staff

Workers	staff	Hrs. of shift	Weekly off
165	221	8	ROTATIONAL

12.

(a) Do you have a residential colony Within the premises in respect of Which the present application is Made ?	No	NA

(b) If yes, please state population staying

Number of person staying	Water consumption	Sewage generation	Whether is STP provided?
	0	0	No

(c) Indicate its location and distance with reference to plant site.

Number of person staying	Water consumption
NA	0

13. List of products and by-products Manufactured in tonnes/month, Kl/month or numbers/month with their types i.e.Dyes, drugs etc. (Give figures corresponding to maximum installed production capacity

Products Name and Quantity

Product Name	UOM	Product Name	Existing	Consented	Proposed Revision	Total	Remarks
Petrochemicals	MT/A	PHTHALIC ANHYDRIDE	222110	222110	0	222110	
Petrochemicals	MT/A	MALEIC ANHYDRIDE	7660	7660	0	7660	

Petrochemicals	MT/A	BENZOIC ACID	1500	1500	0	1500	
Petrochemicals	MT/A	Di ethyl phthalate / Di methyl phthalate rid)	12600	12600	0	12600	CAC has approved CTO ANNEXURE - XI
Petrochemicals	MT/A	Di ethyl phthalate / Di methyl phthalate rid)	12600	12600	0	12600	CAC has approved CTO ANNEXURE - XI
Power Generating plants (excluding D.G Sets)	MW	POWER (Transmitted to Grid)	2.5	2.5	0	2.5	
Power Generating plants (excluding D.G Sets)	MW	POWER	13.6	0	0	0	

Products Name and Quantity

Product Name	*UOM*	*Quantity*	*Remarks*
NA	--NA--	0	

14. List of raw materials and process chemicals with annual consumption corresponding to above stated production figures, in tonnes/month or kl/month or numbers/month.

Name of Raw Material	*UOM*	*Quantity*	*Hazardous Waste*	*Hazardous Chemicals*	*Remarks*
ORTHOXYLENE	MT/A	199391	No	Yes	CLASS B FLAMMABLE
CAUSTIC LYE 48%	MT/A	1824	No	Yes	CORROSIVE
SULFURIC ACID	MT/A	494	No	Yes	CORROSIVE
HYDROCHORIC ACID 30%	MT/A	480	No	Yes	CORROSIVE
PHTHALIC ANHYDRIDE	MT/A	10093	No	No	CORROSIVE
ETHYL ALCOHOL / SPECIAL DENATURED SPIRIT	MT/A	5334	No	No	CLASS A FLAMMABLE
OR METHYL ALCOHOL	MT/A	4334	No	No	CLASS A FLAMMABLE
ACTIVATED CARBON	MT/A	17	No	No	COMBUSTIBLE DUST

15. Description of process of manufacture for each of the products showing input, output, quality and quantity of solid, liquid and gaseous wastes, if any from each unit process.

ANNEXURE - IV

Part B : Waste Water aspects

16. Water consumption for different uses (m3/day)

Purpose	*Consumption*	*Effluent Generation*	*Treatment*	*Remarks*	*Disposal*	*Remarks*
Domestic Pourpose	44	36	Septic Tank & Soak Pit	TAKEN INTO AERATIN TANK FOR FURTHER TREATMENT AND DISPOSAL.	CETP	

Water gets Polluted & Pollutants are Biodegradable	697	105	Primary + Secondary + Tertiary	MEE PROVIDED	CETP
Water gets Polluted,Pollutants are not Biodegradable & Toxic	0	0	--NA--		Recycle
Industrial Cooling,spraying in mine pits or boiler feed	4776	686	OTHERS	HRSCC, ULTRA FILTRATION, TWO STAGE RO AND MEE PROVIDED	Recycle
Others	10				

17. Source of water supply, Name of authority granting permission if applicable and quantity permitted.

Source of water supply	***Name of authority granting permission***	***Qauntity permitted***
MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION	MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION	5527

18. Quantity of waste water (effluent) generated (m3/day)

Domastic	***Boiler Blowdown***	***Industrial***	***Cooling water blowdown***
36	0	130	476
Process	***DM Plants/Softening***	***Washing***	***Tail race discharge from***
105	80	0	0

* 19. Water budget calculations accounting for difference between water consumption and effluent generated.

0

20. Present treatment of sewage/canteen effluent (Give sizes/capacities of treatment units).

Capacity of STP (m3/day)

0

Treatment unit	***Size (mxm)***	***Retention time (hr)***
NA	0	0

21. Present treatment of trade effluent (Give sizes/capacities of treatment units) (A schematic diagram of the treatment scheme with inlet/outlet characteristics of each unit operation/process is to be provided. Include details of residue Management system (ETP sludges)

Capacity of ETP (m3/day)

827

Treatment unit	***Size (mxm)***	***Retention time (hr)***
OIL SEPARATOR VOLUME M3	45	13.6
EQUALIZATION TANK FOR PROCESS VOLUME M3	195	59
EQUALIZATION TANK FOR DM VOLUME M3	195	59
CT BLOWDOWN SUMP VOLUME M3	240	12.12
EQUALIZATION TANK FOR MA AND HEATER SCRUBBER VOLUME M3	150	144.23
BLENDING TANK VOLUME VOLUME M3	108	32.72

RO FEED TANK VOLUME M3	650	26
EVAPORATOR FEED TANK VOLUME M3	180	27.69
FEROUS SULPHATE COAGULATION TANK VOLUME M3	1	0.3
LIME NEUTRALIZATION TANK VOLUME M3	2.25	0.68
FLASH MIXER VOLUME M3	0.13	0.03
FLOCCULATOR VOLUME M3	1.8	0.5
PRIMARY CLARIFER VOLUME M3	18	2.9
TRICKLING FILTER FEED TANK VOLUME M3	147	16.8
TRICKLING FILTER VOLUME M3	393	44.91
TRICKLING FILTER SETTLING TANK VOLUME M3	48	5.48
AERATION TANK VOLUME M3	450	43.90
CLARIFIER VOLUME M3	60	5.7
SLUDGE COLLECTION TANK VOLUME M3	21	21
TREATED EFFLUENT PSF FEED TANKVOLUME M3	90	9.8
HYPOCHLORITE DISINFECTION TANK VOLUME M3	6	0.4
FINAL TREATED WATER SUMP VOLUME M3	300	32.75

22.

(i) Are sewage and trade effluents mixed together?	Yes
If yes, state at which stage-Whether before, intermittently or after treatment.	At Aeration Tank of effluent Treatment Plant

23. Capacity of treated effluent sump, Guard Pond if any.

Capacity of treated effluent sump (m3)	300	
Effluent sump/Guard pond details	Yes	RCC TANK
If yes, state at which stage-Whether before, intermittently or after treatment.	No	NA

24. Mode of disposal of treated effluent With respective quantity, m3/day

(i) into stream/river (name of river)	NA	***(ii) into creek/estuary (name of Creek/estuary)***	NA
(iii) into sea	NA	***(iv) into drain/sewer (owner of sewer)***	NA
(v) On land for irrigation on owned land/ase land. Specify cropped area.	NA	***(vi) Connected to CETP***	220

(vii) Quantity of treated effluent reused/ recycled, m3/day Provide a location map of disposal arrangement indicating the outler(s) for sampling. Treated effluent reused / recycled (m3/day)	607

25. (a) Quality of untreated/treated effluents (Specify pH and concentration of SS, BOD,COD and specific pollutants relevant to the industry. TDS to be reported for disposal on land or into stream/river.

Untreated Effluent

pH	5.76
SS (mg/l)	96.73
BOD (mg/l)	863
COD (mg/l)	2516
TDS (mg/l)	2775

Specific pollutant if any	***Name***	***Value***
1	OIL & GREASE	<2
1	CHLORIDE	592.18
1	SULPHATE	512.55
1	TAN	2.33

Treated Effluent

pH	7.66
SS (mg/l)	30
BOD (mg/l)	36.05
COD (mg/l)	94.55
TDS (mg/l)	1545.45

Specific pollutant if any	***Name***	***Value***
1	OIL & GREASE	<2
1	CHLORIDE	385.55
1	SULPHATE	260.27
1	TAN	16.65

(b) Enclose a copy of the latest report of analysis from the laboratory approved by State Board/ Committee/Central Board/Central Government in the Ministry of Environment expected characteristics of the untreated/treated effluent

ANNEXURE - IV

26. Fuel consumption

Fuel Type	***UOM***	***Fuel Consumption TPD/LKD***	***Calorific value***
--NA--	MT/Day	18.2	5000
Ash content	***Sulphur content***	***Quantity***	***Other (specify)***
0.1	0	1	

Fuel Type	***UOM***	***Fuel Consumption TPD/LKD***	***Calorific value***
Furnace Oil	MT/Day	35	10050
Ash content	***Sulphur content***	***Quantity***	***Other (specify)***

0.1	4.5	1	

Fuel Type	***UOM***	***Fuel Consumption TPD/LKD***	***Calorific value***
HSD	MT/Day	19.92	11840
Ash content	***Sulphur content***	***Quantity***	***Other (specify)***
0.01	1	1	

27. (a) Details of stack (process & fuel stacks: D. G.)

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S -1	BOILER	30	FURNACE OIL
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
1125	MS	ROUND	55
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
2.6	30000	200	2.72
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	CO, NO, PM, SO2	STACK HIGHT PROVIDED FOR SUFFICENT DISPERSION	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 2A	PA - I HEATER	-	FO - 62.51 KG/HR & DISTILLATION RESIDUE 109.37 KG/HR
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
62.51	MS	ROUND	31
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.5	7000	70	12.44
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
CYCLONE DUST COLLECTOR	CO, NO, PM SO2	WET SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 2B	PA - II HEATER	-	104.16 & DISTILLATION RESIDUE - 182.29 KG/HR
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
104.16	MS	ROUND	31
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.59	9000	70	11.49
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
CYCLONE DUST COLLECTOR	CO, NO, PM, SO2	WET SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 3	PA - i SCRUBBER	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***

0	MS	ROUND	50
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
1.99	80000	45	8.32
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	NO, PM, SO2, TOC	SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 4	PA - II SCRUBBER	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	50
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
1.69	60000	45	8.65
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	NO, PM, SO2, TOC	SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 5	PA - III SCRUBBER	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	50
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
1.69	60000	45	8.65
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	NO, PM, SO2, TOC	SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 6	PA DE-DUSTING - 1	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	12
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.35	3500	60	12.33
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	PM, TOC	BAG FILTER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 7	PA DE-DUSTING 2	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	12
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***

0.35	3500	60	12.33
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	PM TOC	BAG FILTER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 8	PA DE-DUSTING 3	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	12
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.4	3500	60	9.44
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	PM, TOC	BAG FILTER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 9	MA BAGGING	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	30
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.5	10000	50	16.74
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	PM, TOC	SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 10	MA FLAKER	-	NA
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
0	MS	ROUND	30
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.35	5000	50	17.08
(m) Control equipment preceding the stack	***(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.***	***(o) Emissions control system provided***	***(p) In case of D.G. Set power generation capacity in KVA***
NA	PM, TOC	SCRUBBER	NA

(a) Stack number(s)	***(b) Stack attached to***	***(c) Capacity***	***(d) Fuel Type***
S - 11	DG	2000 KVA	HSD
(e) Fuel quantiy (Kg/hr.)	***(f) Material of construction***	***(g) Shape (round/rectangular)***	***(h) Height, m (above ground level)***
345.83	MS	ROUND	15
(i) Diameter/Size, in meters	***(j) Gas quantity, Nm3/hr.***	***(k) Gas temperature °C***	***(l) Exit gas velocity, m/sec.***
0.49	5000	250	14.11

(m) Control equipment preceding the stack	*(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.*	*(o) Emissions control system provided*	*(p) In case of D.G. Set power generation capacity in KVA*
NA	CO, NO, PM, SO2	STACK HEIGHT DESIGNED FOR ADEQUATE DISPERSION	NA

(a) Stack number(s)	*(b) Stack attached to*	*(c) Capacity*	*(d) Fuel Type*
S - 12	PA - IV HEATER	-	HSD - 80, DISTILLATION RESIDUE - 332.5
(e) Fuel quantiy (Kg/hr.)	*(f) Material of construction*	*(g) Shape (round/rectangular)*	*(h) Height, m (above ground level)*
80	MS	ROUND	31
(i) Diameter/Size, in meters	*(j) Gas quantity, Nm3/hr.*	*(k) Gas temperature °C*	*(l) Exit gas velocity, m/sec.*
0.8	6700	90	4.92
(m) Control equipment preceding the stack	*(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.*	*(o) Emissions control system provided*	*(p) In case of D.G. Set power generation capacity in KVA*
NA	CO, NO, PM, SO2	WET SCRUBBER	NA

(a) Stack number(s)	*(b) Stack attached to*	*(c) Capacity*	*(d) Fuel Type*
S - 13	PA - IV SCRUBBER	-	NA
(e) Fuel quantiy (Kg/hr.)	*(f) Material of construction*	*(g) Shape (round/rectangular)*	*(h) Height, m (above ground level)*
0	MS	ROUND	50
(i) Diameter/Size, in meters	*(j) Gas quantity, Nm3/hr.*	*(k) Gas temperature °C*	*(l) Exit gas velocity, m/sec.*
1.69	60000	45	8.65
(m) Control equipment preceding the stack	*(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.*	*(o) Emissions control system provided*	*(p) In case of D.G. Set power generation capacity in KVA*
NA	NO, PM, SO2, TOC	SCRUBBER	NA

(a) Stack number(s)	*(b) Stack attached to*	*(c) Capacity*	*(d) Fuel Type*
S - 14	PA DE-DUSTING 4	-	NA
(e) Fuel quantiy (Kg/hr.)	*(f) Material of construction*	*(g) Shape (round/rectangular)*	*(h) Height, m (above ground level)*
0	MS	ROUND	12
(i) Diameter/Size, in meters	*(j) Gas quantity, Nm3/hr.*	*(k) Gas temperature °C*	*(l) Exit gas velocity, m/sec.*
0.4	9000	50	22.40
(m) Control equipment preceding the stack	*(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.*	*(o) Emissions control system provided*	*(p) In case of D.G. Set power generation capacity in KVA*
NA	PM, TOC	BAG FILTER	NA

(a) Stack number(s)	*(b) Stack attached to*	*(c) Capacity*	*(d) Fuel Type*
S - 15	DG	2050 KVA	HSD
(e) Fuel quantiy (Kg/hr.)	*(f) Material of construction*	*(g) Shape (round/rectangular)*	*(h) Height, m (above ground level)*
380	MS	ROUND	30
(i) Diameter/Size, in meters	*(j) Gas quantity, Nm3/hr.*	*(k) Gas temperature °C*	*(l) Exit gas velocity, m/sec.*
0.4	3500	250	14.82

(m) Control equipment preceding the stack	*(n) Nature of pollutants likely to present in stack gases such as CI2, Nox, Sox TPM etc.*	*(o) Emissions control system provided*	*(p) In case of D.G. Set power generation capacity in KVA*
NA	CO, NO, PM, SO2	SUFFICENT HEIGHT PROVIDED FOR DISPERSION	NA

27. (B) Whether any release of odoriferous compounds such as Mercaptans, Phorate etc. Are coming out from any storages or process house.

NO

28. Do you have adequate facility for collection of samples of emissions in the form of port holes, platform, ladder\etc. As per Central Board Publication “Emission regulations Part-III” (December, 1985)

Poart hole	Yes	***Details***	PROVIDED
Platform	Yes	***Details***	PROVIDED
Ladder	Yes	***Details***	PROVIDED

29. Quality of treated flue gas emissions and process emissions. Quantity of treated flue gas emissions and process emissions.

Sr. No.	*Stack attached to*	*Parameter*	*Concentration mg/Nm3*	*flow (Nm3/hr)*
1	BOILER	CO	200	30000
2	BOILER	NO	450	30000
3	BOILER	PM	100	30000
4	BOILER	SO2	1700	30000
5	PA- I HEATER	CO	200	7000
6	PA- I HEATER	NO	450	7000
7	PA- I HEATER	PM	100	7000
8	PA - I HEATER	SO2	1700	7000
9	PA- II HEATER	CO	200	9000
10	PA- II HEATER	NO	450	9000
11	PA- II HEATER	PM	100	9000
12	PA- II HEATER	SO2	1700	9000
13	PA - SCRUBBER	NO	350	80000
14	PA - I SCRUBBER	PM	50	80000
15	PA - I SCRUBBER	SO2	850	80000
16	PA- SCRUBBER	TOC	150	80000
17	PA- II SCRUBBER	NO	450	60000
18	PA- II SCRUBBER	PM	100	60000
19	PA- II SCRUBBER	SO2	1700	60000
20	PA- II SCRUBBER	TOC	150	60000
21	PA- III SCRUBBER	NO	450	60000
22	PA- III SCRUBBER	PM	100	60000
23	PA- III SCRUBBER	SO2	1700	60000
24	PA- III SCRUBBER	TOC	150	60000

25	PA DE-DUSTING	PM	150	3500
26	PA DE-DUSTING	TOC	150	3500
27	PA DE-DUSTING 2	PM	1700	3500
28	PA DE- DUSTING 2	SO2	150	3500
29	PA DE-DUSTING-3	PM	150	3500
30	PA DE-DUSTING-3	TOC	150	3500
31	MA BAGGING	PM	150	10000
32	MA BAGGING	TOC	150	10000
33	MA FLAKER	PM	150	5000
34	MA FLAKER	TOC	150	5000
35	DG 2000 KVA	CO	150	5000
36	DG 2000 KVA	NO	710	5000
37	DG 2000 KVA	PM	150	5000
38	DG 2000 KVA	SO2	1700	5000
39	PA IV HEATER	CO	200	6700
40	PA IV HEATER	NO	450	6700
41	PA IV HEATER	PM	100	6700
42	PA IV HEATER	SO2	1700	6700
43	PA- IV SCRUBBER	NO	350	60000
44	PA- IV SCRUBBER	PM	50	60000
45	PA- IV SCRUBBER	SO2	850	60000
46	PA- IV SCRUBBER	TOC	150	60000
47	PA DE-DUSTING 4	PM	150	9000
48	PA DE-DUSTING 4	TOC	150	9000
49	DG 2050 KVA	CO	150	3500
50	DG 2050 KVA	NO	710	3500
51	DG 2050 KVA	PM	150	3500
52	DG 2050 KVA	SO2	1700	3500

(Specify concentration of criteria pollutants and industry/process-specific pollutants stack-wise. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/ Central Government in the Ministry of Environment & Forests. For proposed unit furnish expected characteristics of the emissions..

ANNEXURE - VI

Part - D: Hazardous Waste aspect

30. Information about Hazardous Waste Management as defined in Hazardous Waste (Management & Handling) Rules, 1989 as amended in Jan.,2000. Type/Category of Waste as per

Waste (Annually) Schedule I

Cat No	***Type***	***Qty***	***UOM***
1.2	1.2 Tarry residues and still bottoms from distillation	5467.8	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	VESSEL	CLOSED PIPELINE	VESSEL

Method of transport	Method of treatment	Method of disposal
NA	Used as fuel in oil heater/ thermal oxidizer	Used as fuel in oil heater/ thermal oxidizer / Captive use

---

Cat No	Type	Qty	UOM
1.4	1.4 Organic residues	150	MT/A

Max	Method of collection	Method of reception	Method of storage
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED

Method of transport	Method of treatment	Method of disposal
CHWTSDF TRANSPORT FACILITY	INCINERATION	CHWTSDF

Cat No	Type	Qty	UOM
1.6	1.6 Spent catalyst and molecular sieves	90	MT/A

Max	Method of collection	Method of reception	Method of storage
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED

Method of transport	Method of treatment	Method of disposal
CHWTSDF TRANSPORT FACILITY	INCINERATION	SENT BACK TO MANUFACTURER / CHWTSDF

Cat No	Type	Qty	UOM
5.1	5.1 Used or spent oil	45	MT/A

Max	Method of collection	Method of reception	Method of storage
	BARRELS	BARRELS	DEDICATED HAZARDOUS WASTE STORAGE SHED

Method of transport	Method of treatment	Method of disposal
MPCB APPROVED TRANSPORTER	RECYCLE	SALE TO AUTH. PARTY /RECYCLER / REPROCESSOR

Cat No	Type	Qty	UOM
33.1	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1240	Nos./Y

Max	Method of collection	Method of reception	Method of storage
	COLLECTED AFTER WASHING	TROLLEY	DEDICATED HAZARDOUS WASTE STORAGE SHED

Method of transport	Method of treatment	Method of disposal
MPCB APPROVED TRANSPORTER	REUSE / RECYCLE	WASHED & REUSE

Cat No	Type	Qty	UOM
35.3	35.3 Chemical sludge from waste water treatment	18	MT/A

Max	Method of collection	Method of reception	Method of storage
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED

Method of transport	Method of treatment	Method of disposal
CHWTSDF TRANSPORT FACILITY	SECURED LANDFILL	CHWTSDF

Cat No	Type	Qty	UOM

37.2	37.2 Ash from incinerator and flue gas cleaning residue	9.5	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED
Method of transport	***Method of treatment***	***Method of disposal***	
CHWTSDF TRANSPORT FACILITY	SECURED LANDFILL	CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
NA		BIOMEDICAL WASTE - 12	MT/M
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BINS	PLASTIC BINS	PLASTIC BINS
Method of transport	***Method of treatment***	***Method of disposal***	
CBMWTSDF TRANSPORT FACILITY	INCINERATION	CBMWTSDF	

Cat No	***Type***	***Qty***	***UOM***
37.3	37.3 Concentration or evaporation residues	3000	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED SLUDGE STORAGE GODOWN PROVIDED
Method of transport	***Method of treatment***	***Method of disposal***	
CHWTSDF TRANSPORT FACILITY	SECURED LANDFILL	CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
36.2	36.2 Spent carbon or filter medium	93.7	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED
Method of transport	***Method of treatment***	***Method of disposal***	
CHWTSDF TRANSPORT FACILITY	INCINERATION	AS & WHEN GENERATED, CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
15.2	15.2 Discarded asbestos	43	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED
Method of transport	***Method of treatment***	***Method of disposal***	
CHWTSDF TRANSPORT FACILITY	SECURED LANDFILL	AS & WHEN GENERATED, CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
NA		SODIUM SULPHATE - 900	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	BARRELS	BARRELS	DEDICATED SLUDGE STORAGE GODOWN PROVIDED
Method of transport	***Method of treatment***	***Method of disposal***	

CHWTSDF TRANSPORT FACILITY	RECYCLE	SALE TO AUTH. PARTY/ RECYCLER / RE-PROCESSOR/CONSENTED PARTY/CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
NA		PATHALIC ACID - 800	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED SLUDGE STORAGE GODOWN PROVIDED
Method of transport	***Method of treatment***	***Method of disposal***	
MPCB APPROVED VEHICLES	RECYCLE	SALE TO AUTH. PARTY/ RECYCLER / RE-PROCESSOR/CONSENTED PARTY/CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
NA		MONO EASTER SALTS - 3000	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	VESSEL	VESSEL	VESSEL
Method of transport	***Method of treatment***	***Method of disposal***	
MPCB APPROVED VEHICLES	RECYCLE	SALE TO AUTH. PARTY/ RECYCLER /CONSENTED PARTY/ RE-PROCESSOR/CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
37.1	37.1 Sludge from wet scrubbers	5	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED
Method of transport	***Method of treatment***	***Method of disposal***	
CHWTSDF TRANSPORT FACILITY	SECURED LANDFILL	CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
NA		DISCARDED BAGS USED FOR HAZARDOUS CHEMICALS - 2.5	MT/A
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	PLASTIC BAGS	DEDICATED HAZARDOUS WASTE STORAGE SHED
Method of transport	***Method of treatment***	***Method of disposal***	
DEDICATED HAZARDOUS WASTE STORAGE SHED	INCINERATION	CHWTSDF	

Cat No	***Type***	***Qty***	***UOM***
35.2	35.2 Spent ion exchange resin containing toxic metals	7500	Ltrs
Max	***Method of collection***	***Method of reception***	***Method of storage***
	PLASTIC BAGS	TROLLEY	DEDICATED HAZARDOUS WASTE STORAGE SHED
Method of transport	***Method of treatment***	***Method of disposal***	
DEDICATED HAZARDOUS WASTE STORAGE SHED	SECURED LANDFILL	CHWTSDF	

Waste (Annually) Schedule II

31. Details about use of hazardous waste

Name of hazardous waste/Spent chemical	***Quantity used/month***	***Party from whom purchased***	***Party to whom sold***
NA	0	NA	0

32.

a. Details about technical capability and equipments available with the applicant to handle the Hazardous Waste

Dedicated hazardous waste sheds are provided with leachate collection facility.

b. Characteristics of hazardous waste(s) Specify concentration of relevant pollutants. Enclose a copy of the latest report of analysis from the laboratory approved by State Board/Central Board/Central Govt. in the ministry of Environment & Forests. For proposed units furnish expected characteristics

ANNEXURE - VII

33.

Copy of format of manifest/record Keeping practiced by the applicant.

ANNEXURE - VIII

34.

Details of self-monitoring (source and environment system)

Monthly air, stack & effluent monitoring is done by MoEF approved lab. OCEMS is connected to MPCB &

35.

Are you using any imported hazardous waste. If yes, give details.

No

36.

Copy of actual user Registration/certificate obtained from State Pollution Control Board/Ministry of Environment & Forests, Government of India, for use of hazardous waste.

NA

37.

Present treatment of hazardous waste, if any (give type and capacity of treatment units)

NA

38. Quantity of hazardous waste disposal

(i) Within factory

0

(ii) Outside the factory (specify location and enclose copies of agreement.)

0

(iii) Through sale (enclosed documentary proof and copies of agreement.)

0

(iv) Outside state/Union Territory, if yes particulars of (1 & 3) above.

0

(v) Other (Specify)

0

Part - E: Additional information

39.

a. Do you have any proposals to upgrade the present system for treatment and disposal of effluent/emissions and/or hazardous waste.

No

b. If yes, give the details with time- schedule for the implementation and approximate expenditure to be incurred on it.

NA

40.

Capital and recurring (O & M) expenditure on various aspect of environment protection such as effluent, emission, hazardous waste, solid waste, tree- plantation, monitoring, data acquisition etc. (give figures separately for items implemented/to be implemented).

Annexure - IX

41.

To which of the pollution control equipment, separate meters for recording consumption of electric energy are installed ?

Seperate energy meters are provided for ETP & APC systems.

42.

Which of the pollution control items are connected to D.G. Set (captive power source) to ensure their running in the event of normal power failure

We have captive power generation from 3 plants (3 turbines). Turbine - 3 power has provided for ETP

43. Nature, quantity and method of disposal of non- hazardous solid waste generated separately from the process of manufacture and waste treatment. (Give details of area/capacity available in applicant's land)

Type	*Quantity*	*UOM*	*Treatment*	*Disposal*	*Other Details*
Debris during maintenance activities like insulation/packing material/scrap iron etc	8.5	MT/M	NA	Sale to Auth Party / CHWTSDF	
Biological Sludge from waste water treatment	35	MT/M	NA	Used as manure for gardening, CHWTSDF	

44. Hazardous Chemicals – Give details of Chemicals and quantities handled and Stored.

(i) Is the unit a Majot Accident Hazard unit as per Mfg.Storage Import Hazardous Chemicals Rules ?

ANNEXURE -X

(ii) Is the unit an isolated storage as defined under the MSIHC Rules ?

NO

(iii) Indicate status of compliance of Rules 5,7,10,11,12,13 and 18 of the MSIHC Rules.

COMPLIED

(iv) Has approval of site been obtained from the concerned authority?

YES

(v) Has the unit prepared an off-site Emergency Plan? Is it updated ?

YES

(vi) Has information on imports of Chemicals been provided to the concerned authority?

YES

(vii) Does the unit possess a policy under the PLI Act?

YES

45. Brief details of tree plantation/green belt development within applicant's premises (in hectors)

Open Space Availability	***Plantation Done On***	***Number of Trees Planted***
39648 Square meter	11328 Square meter(29 %)	1441

46.

Information of schemes for waste Minimization, resource recovery and recycling - implemented and to be implemented, separately.

Off gas scrubber liquid from PA process is process to recover benzoic acid and Maleic Anhydride. Waste steam generated in reactors used for captive power generation.

47.

(a) The applicant shall indicate whether Industry comes under Public Hearing, if so, the relevant documents such as EIA, EMP, Risk Analysis etc. shall be submitted, if so, the relevant documents enclosed shall be indicated accordingly.

NA

(b) Any other additional information that the applicants desires to give

No

(c) Whether Environmental Statement submitted ? If submitted, give date of submission.

30/09/2020

48.

I/We further declare that the information furnished above is correct to the best of my/our knowledge.

49.

I/We hereby submit that in case of any change from what is stated in this application in respect of raw materials, products, process of manufacture and treatment and/or disposal of effluent, emission, hazardous wastes etc. In quality and quantity; a fresh application for Consent/Authorization shall be made and until the grant of fresh Consent/Authorization no change shall be made.

50.

I/We undertake to furnish any other information within one month of its being called by the Board

Yours faithfully

Signature : AJIT BAGADE
Name : AJIT BAGADE
Designation : PRESIDENT - OPERATIONS

Additional Information

Air Pollution

Sr No.	***Air Pollution Source***	***Pollutants***	***APCS Provided***	***Remark***
1	BOILER STACK	CO NO PM SO2	SUFFICENT HEIGHT OF STACK PROVIDED AS PER CTO	OCEMS INSTALLED
2	HEATER SCRUBBER	CO NO PM SO2	WET SCRUBBERS	OCEMS INSTALLED
3	PROCESS SCRUBBER	NO PM SO2 TOC	SCRUBBER	OCEMS INSTALLED
4	DG	CO NO PM SO2	SUFFICENT HEIGHT OF STACK PROVIDED AS PER CTO	MONITORING BY MoEF APPROVED LAB
5	PA DE-DUSTING STACKS	PM TOC	BAG FILTERS	OCEMS INSTALLED

6	MA FLAKER STACK	PM TOC	SCRUBBERS	OCEMS INSTALLED
7	MA BAGGING	PM	SCRUBBERS	OCEMS INSTALLED

Separate EM Provided	Yes	***Other Emission Sources***	NO
Measures Proposed	NA	***Foul Smell Coming Out***	No
Air Sampling Facility Details	MONTHLY AIR MONITORING BY MoEF APPROVED LAB		

D.G. Set Details

Description	***Capacity(KVA)***	***Remarks***
DG 1	2000	MONITORING BY MoEF APPROVED LAB
DG 2	2050	MONITORING BY MoEF APPROVED LAB

Hazardous Waste Generation

Hazardous Waste	***Quantity***	***UOM***	***Treatment***	***Disposal***	***Other Details***
1.2 Tarry residues and still bottoms from distillation	5467.8	MT/A	INCINERATION	USED AS FUEL IN HEATER/THERMAL OXIDIZER	NA
1.4 Organic residues	48	MT/A	INCINERATION	CHWTSDF	NA
1.6 Spent catalyst and molecular sieves	90	MT/A	INCINERATION	SENT BACK TO MANUFACTURER / CHWTSDF	NA
5.1 Used or spent oil	45	MT/A	RECYCLE	SALE TO AUTH. PARTY / RECYCLER/REPROCESSORS	NA
35.3 Chemical sludge from waste water treatment	18	MT/A	SECURED LANDFILL	CHWTSDF	NA
37.2 Ash from incinerator and flue gas cleaning residue	9.5	MT/A	SECURED LANDFILL	CHWTSDF	NA
37.3 Concentration or evaporation residues	3000	MT/A	SECURED LANDFILL	CHWTSDF	NA
36.2 Spent carbon or filter medium	93.7	MT/A	INCINERATION	CHWTSDF	NA
15.2 Discarded asbestos	43	MT/A	SECURED LANDFILL	CHWTSDF	NA
37.1 Sludge from wet scrubbers	5	MT/A	SECURED LANDFILL	CHWTSDF	NA
Other Hazardous Waste	900	MT/A	RECYCLE	SALE TO AUTH. PARTY/RECYCLER/RE-PROCESSOR/CHWTSDF	SODIUM SULPHATE
Other Hazardous Waste	800	MT/A	RECYCLE	SALE TO AUTH. PARTY/RECYCLER/RE-PROCESSOR/CHWTSDF	PHTHALIC ACID
Other Hazardous Waste	3000	MT/A	RECYCLE	SALE TO AUTH. PARTY/RECYCLER/RE-PROCESSOR/CHWTSDF	MONO ESTER SALTS
Other Hazardous Waste	2.5	MT/A	INCINERATION	CHWTSDF	DISCARDED BAGGS USED FOR HAZARDOUS CHEMICALS
Other Hazardous Waste	12	Kg/M	INCINERATION	CBMWTSDF	BIO-MEDICAL WASTE
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1240	Nos./Y	REUSE/RECYCLE	WASHED / REUSE	NA

CHWTSDF Details

Member of CHWTSDF	***CHWTSDF Name***	***Remarks***

Yes	Mumbai Waste Management Limited (MWML)

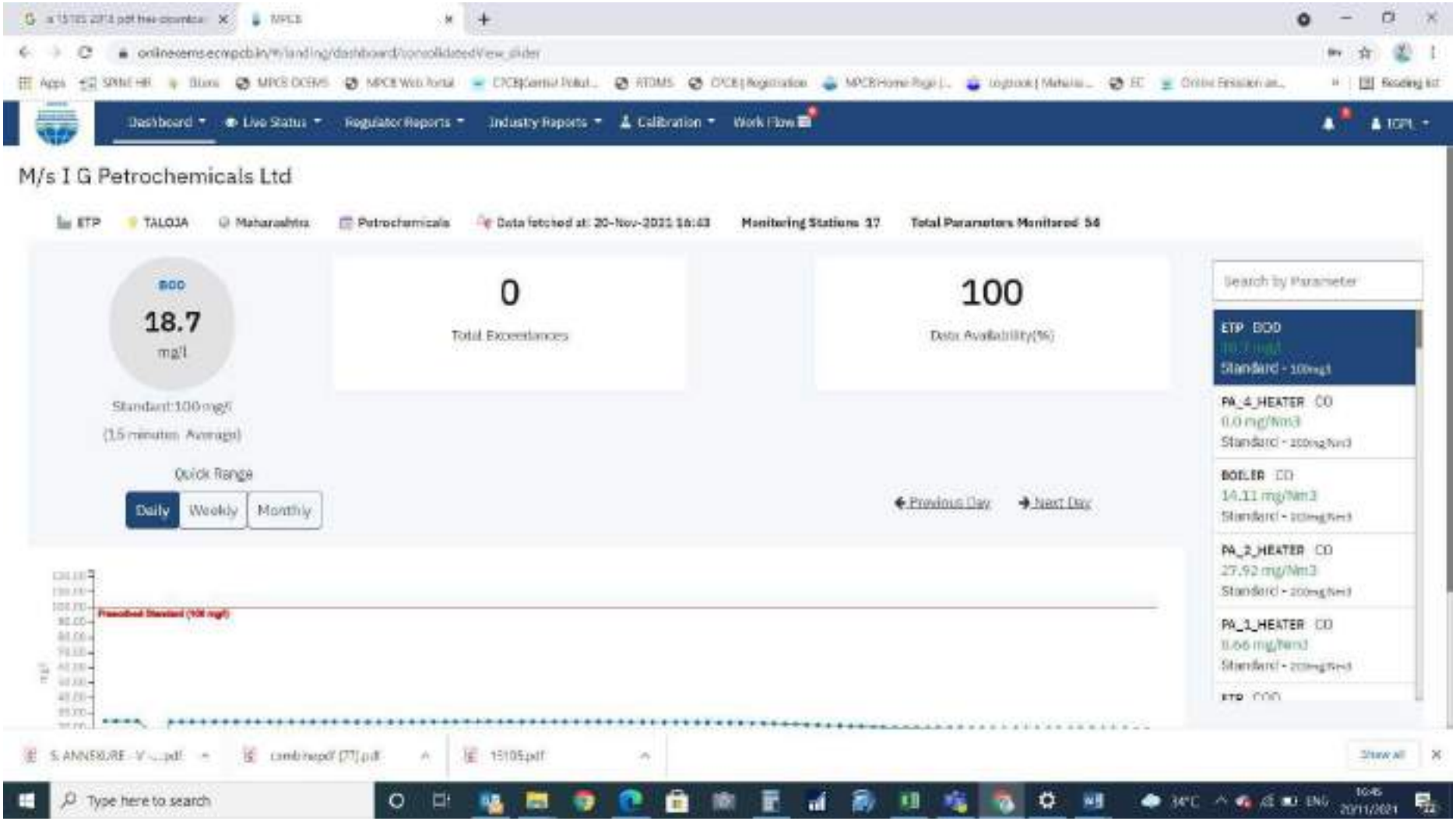
Cess Details

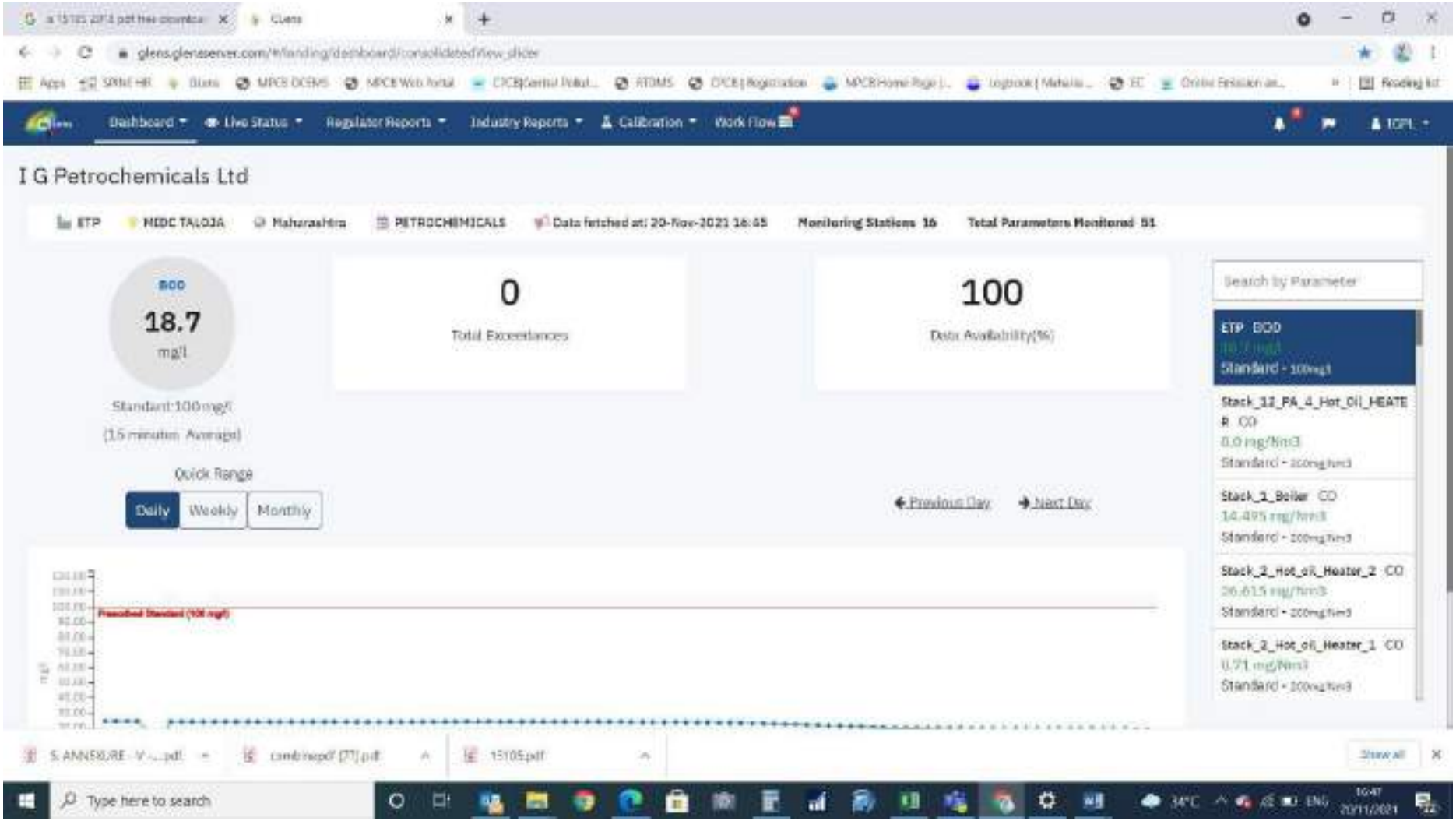
Cess Applicable	*Cess Paid*	*If Yes, UpTo*
No	No	Jan 1 1900 12:00:00:000AM

Legal Actions

Legal Action Taken	*Legal Record Of Company*	*Legal Action Details*	*Remarks*
No			

ANNEXURE – 16 – OCEMS DASHBOARD




Dashboard
Live Status
Regulator Reports
Industry Reports
Calibration
Work Flow
I G Petrochemicals Ltd
ETP
MIDC TALOJA
Maharashtra
PETROCHEMICALS
Data fetched at: 20-Nov-2021 16:45
Monitoring Stations 16
Total Parameters Monitored 51
BOD
18.7
mg/l
Standard:100 mg/l
(1.5 minutes Average)
0
Total Exceedances
100
Data Availability(%)
Search by Parameter
ETP BOD
Standard - 100mg/l
Stack_12_PA_4_Hot_Oil_HEATER CO
0.0 mg/Nm3
Stack_1_Boiler CO
14.495 mg/Nm3
Stack_2_Hot_oil_Heater_2 CO
26.615 mg/Nm3
Stack_2_Hot_oil_Heater_1 CO
0.71 mg/Nm3
Quick Range
Daily
Weekly
Monthly
Previous Day
Next Day
Prescribed Standard (100 mg/l)
Type here to search

ANNEXURE - XVII

I G PETROCHEMICALS LIMITED
DETAILS OF EXPENDITURE ON ENVIRONMENT SOCIAL RESPONSIBILITY
PERIOD 01.04.2021 TO 30.09.2021

SR. NO.	PAID TO	AMOUNT	Voucher No.	Voucher Date	Status
	TALOJA FACTORY				
1	**Maintenance of Trees (By K D Patil)**				
	(At Koyanavele/ghotcamp,Bhoirwada Road, Nitlas Village & FG Glass MIDC Road Divider)				
	(April -2021-Water supply Thru Water Tanker)	47,200.00	PV-TAL/2021050028	14-May-21	
	(May -2021-Water supply Thru Water Tanker)	47,200.00	PV-TAL/2021060014	7-Jun-21	
	(June -2021-Water supply Thru Water Tanker)	47,200.00	PV-TAL/2021070020	9-Jul-21	
	(July -2021-Water supply Thru Water Tanker)	47,200.00	PV-TAL/2021080112	25-Aug-21	
	(August -2021-Water supply Thru Water Tanker)	47,200.00	PV-TAL/2021090068	22-Sep-21	
2	**Trees Plantation (By K D Patil)**				
	Trees Plantation at Forest Land Bhoirwada MIDC -1320 tree and Nitals -1077 tree Forest Land Survey No 03 & MIDC open plot Near T-2 -725 trees. Total 3000 Trees @ 1000	30,00,000.00	PV-TAL/2021080112	25-Aug-21	
	TOTAL	32,36,000.00			

ANNEXURE - XVIII

I G PETROCHEMICALS LIMITED
DETAILS OF EXPENDITURE ON CORPORATE SOCIAL RESPONSIBILITY
PERIOD 01.04.2021 TO 30.09.2021

SR. NO.	PAID TO	AMOUNT	Voucher No.	Voucher Date
A	**BOMBAY OFFICE**			
1	**Akshaya Patra Foundation** (Donation for covid feeding poor people)	22,000.00	MUM-BP/2021050317	27-May-21
2	**CENTRE FOR TRANSFORMING INDIA** Donation- purchase of tablets for underprivileged children	6,00,000.00	MUM-BP/2021060349	25-Jun-21
3	**AGROHA VIKAS SIMITI CHARITABLE TRUST** (Complimentry food for Covid -19 Quarantine Pepole at Home)	1,00,000.00	MUM-BP/2021090277	20-Sep-21
	Total - (A)	7,22,000.00		
B	**TALOJA FACTORY**			
1	**Blind Organisation Of Iindia** MT House, Malwani N C C , Gate No.7, Plot no 31 , Mlad (W), Mumbai-400095 (Registration No DIT (E)/MC/80G/1651/2009-10), PAN No AATB5110C			
2	**Param Shantidham Vridhashram** Taloja MIDC , Opposite -Tecnova Co, Post - Koyalnawele, Taluka-Panvel PAN:- AAATP 3007C , DIT (E) /MC/80G/2930/2009-10 (Registration No 12962 Income Tax Act 1961 U/S 80G)	30,000.00 30,000.00 30,000.00 30,000.00 30,000.00 30,000.00	TL-BP/2021040092 TL-BP/2021050014 TL-BP/2021060015 TL-BP/2021070008 TL-BP/2021080001 TL-BP/2021090001	8-Apr-21 3-May-21 2-Jun-21 1-Jul-21 2-Aug-21 1-Sep-21
3	**QMAX TECHNO CONSULTANTS PVT. LTD.** Consultancy services for planning & designing of IGPL junction at MIDC Taloja	50,000.00	PV-TAL/2020050046	17-May-21
4	**AnnaKirana (Thru MIDC)** Donation twds Providing Foodstuff items to flood affected areas in Chiplun and likewise areas in Maharashtra	1,50,000.00	TL-BP/2021070483	27-Jul-21
5	**DUNES SPRING BEVERAGES PRIVATE LIMITED** Providing Mineral water for flood affected areas in Mahad **SHREE KRUPA TRANSPORT**-Transport Charges for Water supply	66,000.00 11,000.00	PV-TAL/2020070220 PV-TAL/2020090101	31-Jul-21 24-Sep-21
6	**D-Mart [As requested by Maharashtra Pollution Control Board)** Twds 100 Packets of Food Items and Sanitary Napkins 150 Nos for flood affected Persons at Mahad,Satara and Chiplun	1,15,722.00	TL-BP/2021080106	6-Aug-21
7	**SUPER NATURAL GASES AND ALLIED PRODUCTS PVT LTD** Oxygen Tank (Concentrator)	40,14,470.00	TL-JV/2122090050	30-Sep-21
	Total - (B)	45,87,192.00		
	GRAND TOTAL	53,09,192.00		

ANNEXURE - XIX

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

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

To

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

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

Sir,

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

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

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

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

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

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

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

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

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

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

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

20/2/2018

(S. K. Srivastava)
Scientist E

Copy to: -

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

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 2021

Unique Application Number	Submitted Date
MPCB-ENVIRONMENT_STATEMENT-0000038989	30-09-2021

PART A

Company Information

Company Name	Application UAN number
I. G. Petrochemicals Ltd.	0000081902

Address

Plot No. T- 1 & 2, Taloja Industrial Area, MIDC, Taloja, Tal - Panvel, Dist. Raigad - 410208

Plot no	Taluka	Village
T- 1 & 2	Panvel	Taloja Industrial Area
Capital Investment (In lakhs)	**Scale**	**City**
1132	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 0000081902/CO-2003001032	16/03/2020
Consent Valid Upto	**Establishment Year**	**Date of last environment statement submitted**
31/08/2021	1992	Sep 30 2020 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Phthalic Anhydride	222110	170571.95	MT/A
Banzoic Acid	1500	744.85	MT/A
Maleic Anhydride	7660	5381.35	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	697	369.70
Cooling	4776	2533.40
Domestic	44	23.50
All others	10	5.30
Total	5527	2931.90

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Quantity of trade effluent from the factory	791	362.5	CMD
Daily Quantity of sewage from the factory	36	27.7	CMD
Daily quantity of treated effluent	220	217	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	1.251	1.26	CMD
Benzoic Acid	0.000	0.000	CMD
Maleic Anhydride	0.000	0.000	CMD

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
o-Xylene	0.918	0.924	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
FO (Furnace Oil)	11315	6098.317	MT/A
HSD(High Speed Diesel)	3029.5	692.124	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	7.66	0	5.5 - 9.0	NA
Suspended Solids	6.47	29.8	0	100 mg/l	NA
BOD	7.63	35.15	0	100 mg/l	NA
COD	20.21	94	0	250 mg/l	NA

Oil & Grease	0	0	0	10 mg/l	NA
Total Dissolved Solid	333.23	1535	0	2100 mg/l	NA
Chloride	84.64	389.9	0	600 mg/l	NA
Sulphate	52.90	243.7	0	1000 mg/l	NA
TAN	3.62	16.7	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	0.63	68.21	0	100 mg/ Nm3	NA
Stack - I (Boiler)- SO2	61.27	45.23	0	1700 mg/Nm3	NA
Stack - I (Boiler) - NOX	8.82	16.61	0	450 mg/Nm3	NA
Stack - I (Boiler) - CO	0.79	0.911	0	200 mg/Nm3	NA
Stack - II- PA I Heater PM	0.19	79.90	0	100 mg/Nm3	NA
Stack - II- PA I Heater SO2	36.45	162.17	0	1700 mg/Nm3	NA
Stack - II- PA I Heater NOX	30.69	15.04	0	450 mg/ Nm3	NA
Stack - II- PA I Heater CO	0.62	1.44	0	200 mg/Nm3	NA
Stack - III- PA II Heater PM	0.10	73.01	0	100 mg/Nm3	NA
Stack - III- PA II Heater SO2	34.89	181.71	0	1700 mg/Nm3	NA
Stack - III- PA II Heater NOX	18.09	16.61	0	450 mg/Nm3	NA
Stack - III- PA II Heater CO	0.68	1.74	0	200 mg/Nm3	NA
Stack - IV- PA I Scrubber VOC	0.14	0	0	150 mg/Nm3	NA
Stack - IV- PA I Scrubber TPM	0.95	21.92	0	50 mg/Nm3	NA
Stack - IV- PA I Scrubber SO2	8.26	14.18	0	850 mg/Nm3	NA
Stack - IV- PA I Scrubber NOX	16.93	13.54	0	350 mg/Nm3	NA
Stack - V- PA II Scrubber VOC	0.11	0	0	270 ppm	NA
Stack - V- PA II Scrubber PM	1.12	22.71	0	100 ppm	NA
Stack - V- PA II Scrubber SO2	13.44	13.21	0	1700 mg/Nm3	NA
Stack - V- PA II Scrubber NOX	11.63	13.5	0	450 mg/Nm3	NA
Stack - VI- PA III Scrubber VOC	0.03	0	0	150 mg/Nm3	NA
Stack - VI- PA III Scrubber PM	0.66	20.31	0	100 mg/Nm3	NA
Stack - VI- PA III Scrubber SO2	8.57	12.71	0	1700 mg/Nm3	NA
Stack - VI- PA III Scrubber NOX	15.71	29.56	0	450 mg/Nm3	NA
Stack - VII- DG- PM	0.1	57	0	150 mg/Nm3	NA
Stack - VII- DG- SO2	4.95	20.64	0	1700 mg/Nm3	NA
Stack - VII- DG- NOX	7.46	14.05	0	710 mg/Nm3	NA
Stack - VII- DG- CO	1.13	1.3	0	150 mg/Nm3	NA
Stack - VIII- PA Dedusting 1 PM	0.088	57.84	0	150 mg/Nm3	NA
Stack - VIII- PA Dedusting 1TOC	0	0	0	150 mg/Nm3	NA
Stack - IX PA Dedusting 2 PM	0.091	60.21	0	150 mg/Nm3	NA

Stack - IX PA Dedusting 2 TOC	0	0	0	150 mg/Nm3	NA
Stack - X PA Dedusting 3 PM	0.061	40.68	0	150 mg/Nm3	NA
Stack - X PA Dedusting 3 TOC	0	0	0	150 mg/Nm3	NA
Stack - XI MA Bagging PM	0.14	27.51	0	150 mg/Nm3	NA
Stack - XI MA Bagging TOC	0	0	0	150 mg/Nm3	NA
Stack - XII MA Flaker PM	0.07	27.17	0	150 mg/Nm3	NA
Stack - XII MA Flaker TOC	0	0	0	150 mg/Nm3	NA
Stack - XIII PA 4 Heater PM	0.11	59.23	0	100 mg/Nm3	NA
Stack - XIII PA 4 Heater SO2	11.14	67.4	0	1700 mg/Nm3	NA
Stack - XIII PA 4 Heater NOX	6.91	13	0	450 mg/Nm3	NA
Stack - XIII PA 4 Heater CO	1.27	1.45	0	200 mg/Nm3	NA
Stack - XIV PA 4 Scrubber VOC	0	0	0	150 mg/Nm3	NA
Stack - XIV PA 4 Scrubber PM	0.49	18.57	0	50 mg/Nm3	NA
Stack - XIV PA 4 Scrubber SO2	21.58	16.52	0	850 mg/Nm3	NA
Stack - XIV PA 4 Scrubber NOX	7.32	13.77	0	350 mg/Nm3	NA
Stack - XV PA Dedusting 4 PM	0.23	50.55	0	150 mg/Nm3	NA
Stack - XV PA Dedusting 4 TOC	0	0	0	150 mg/Nm3	NA
Stack XVI DG 2050 KVA PM	0.04	3.951	0	150 mg/Nm3	NA
Stack XVI DG 2050 KVA SO2	13.65	48.36	0	1700 mg/Nm3	NA
Stack XVI DG 2050 KVA NOX	7.26	1.3	0	710 mg/Nm3	NA
Stack XVI DG 2050 KVA CO	1.14	69.33	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	2717.771	3201.44	MT/A
1.6 Spent catalyst and molecular sieves	23.34	0	MT/A
5.1 Used or spent oil	5.2	15.66	MT/A
15.2 Discarded asbestos	3.05	0.05	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.73	940	Nos./Y
36.2 Spent carbon or filter medium	2.549	4.84	MT/A
35.3 Chemical sludge from waste water treatment	16.871	8.21	MT/A
37.2 Ash from incinerator and flue gas cleaning residue	0	0	MT/A
1.4 Organic residues	107.03	83.47	MT/A
37.3 Concentration or evaporation residues	0	255.03	MT/A
37.1 Sludge from wet scrubbers	0	11.56	MT/A
Other Hazardous Waste	0	0.79	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	16.871	8.21	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.	70.26	52.75	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)	58.42	63.8	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	2717.771	3195.91	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	3201.44	MT/A	Viscous (Disposal - Use as fuel heater)
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	940	Nos./Y	Solid (Disposal - Sent back to manufacturer)
35.3 Chemical sludge from waste water treatment	8.21	MT/A	Solid (Disposal-Sent to CHWTSDF)
36.2 Spent carbon or filter medium	4.84	MT/A	Solid (Disposal-Washed & Reused)
37.2 Ash from incinerator and flue gas cleaning residue	0	MT/A	Solid (Disposal-Washed & Reused)
1.6 Spent catalyst and molecular sieves	0	MT/A	Semi Solid (Disposal- Sent to CHWTSDF)
5.1 Used or spent oil	15.66	MT/A	Liquid (Disposal - Sale CPCB / MPCB authorized parties
15.2 Discarded asbestos	0.05	MT/A	Solid (Disposal-Sent to CHWTSDF)
1.4 Organic residues	83.47	MT/A	Solid (Disposal-Sent to CHWTSDF)
37.3 Concentration or evaporation residues	255.03	MT/A	Solid (Disposal-Sent to CHWTSDF)
37.1 Sludge from wet scrubbers	11.56	MT/A	Solid (Disposal-Sent to CHWTSDF)
Other Hazardous Waste	0.79	MT/A	Discarded bags used for hazardous chemicals- Solid (Disposal-Sent to CHWTSDF)

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Biological Sludge from ETP	63.8	MT/A	Solid (Disposal- CHWTSDF) - Landfilling
Other debris like insulation, packaging materials etc.	52.75	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	105	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.	80

Part-I

Any other particulars for improving the quality of the environment.

Particulars

OCEMS connected to MPCB & CBCP servers, monthly Environment Monitoring from MoEF recognised lab ensured.

Name & Designation

Mr Ajit Bagade (President- Operations)

UAN No:

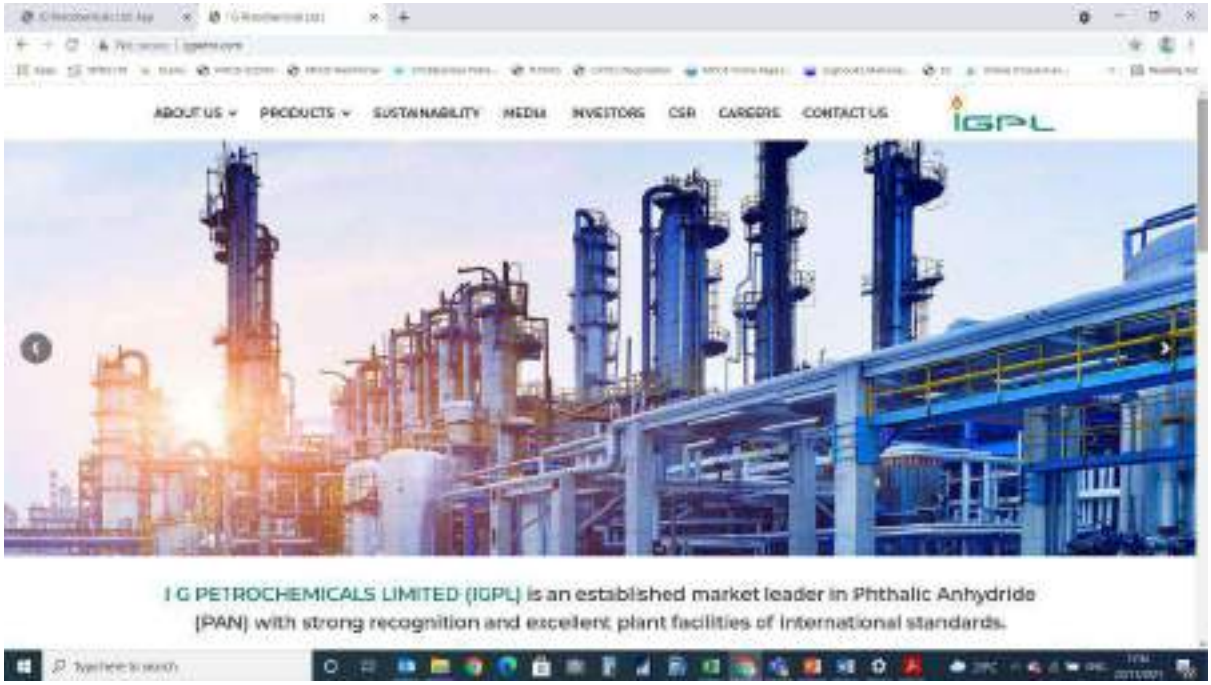
MPCB-ENVIRONMENT_STATEMENT-0000038989

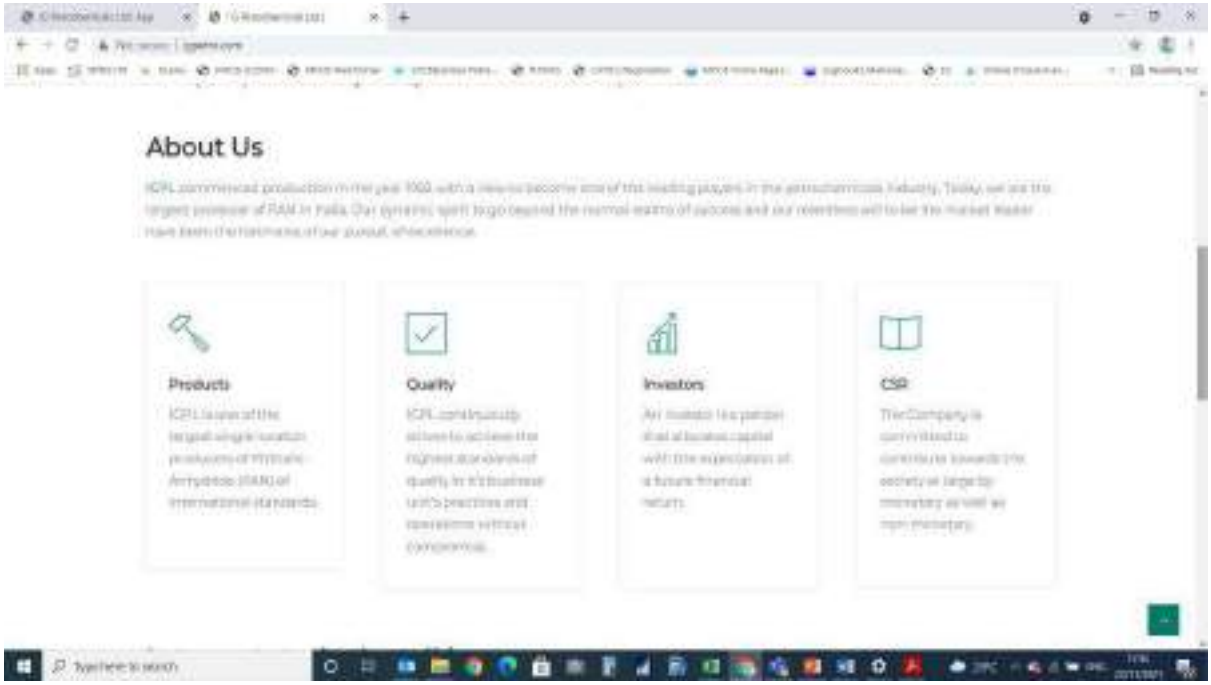
Submitted On:

30-09-2021

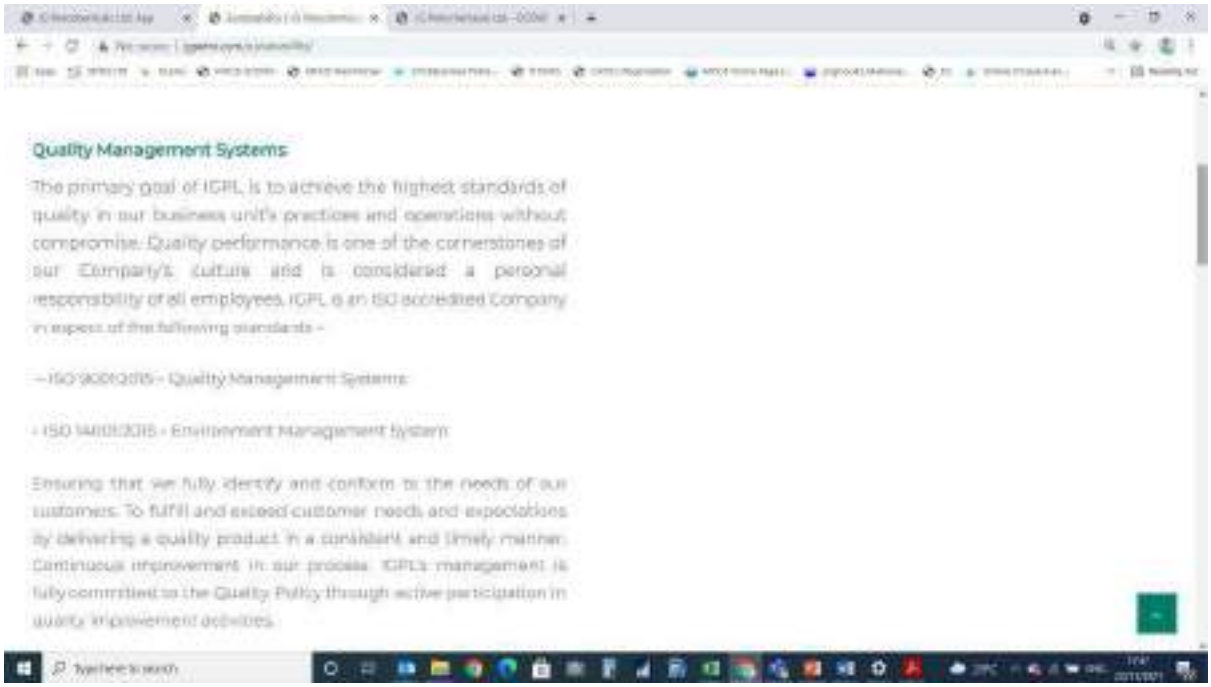
ANNEXURE – XXII

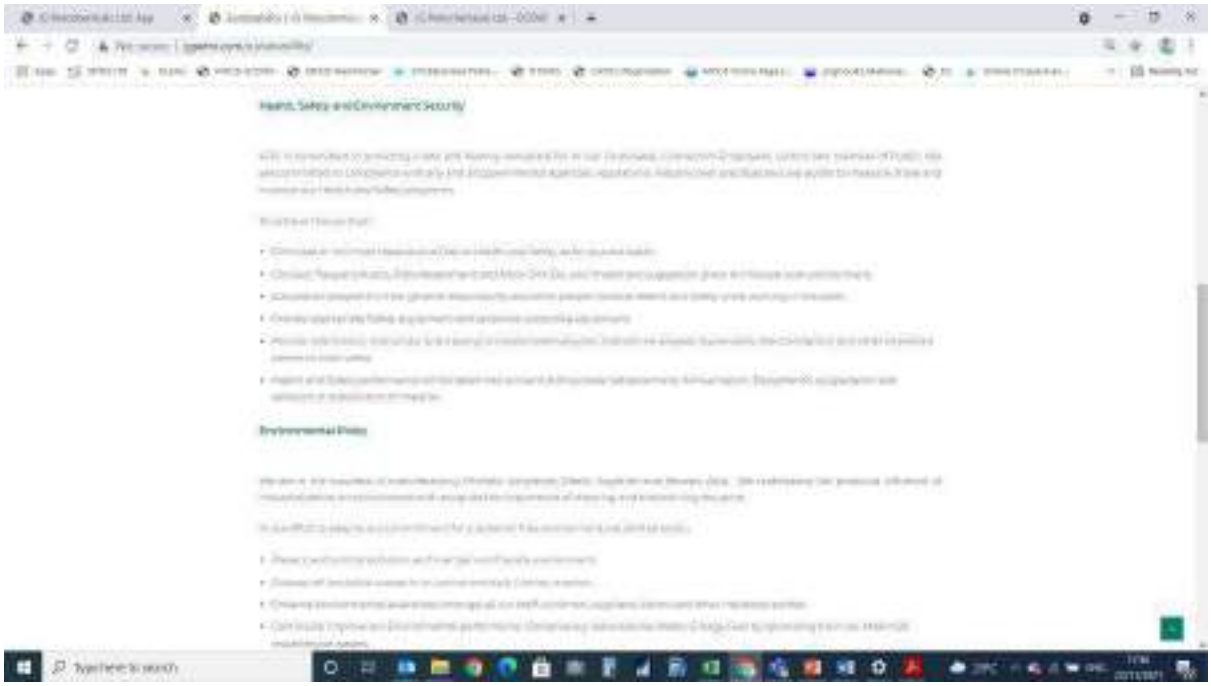
IGPL WEBSITE SNAPSHOTS

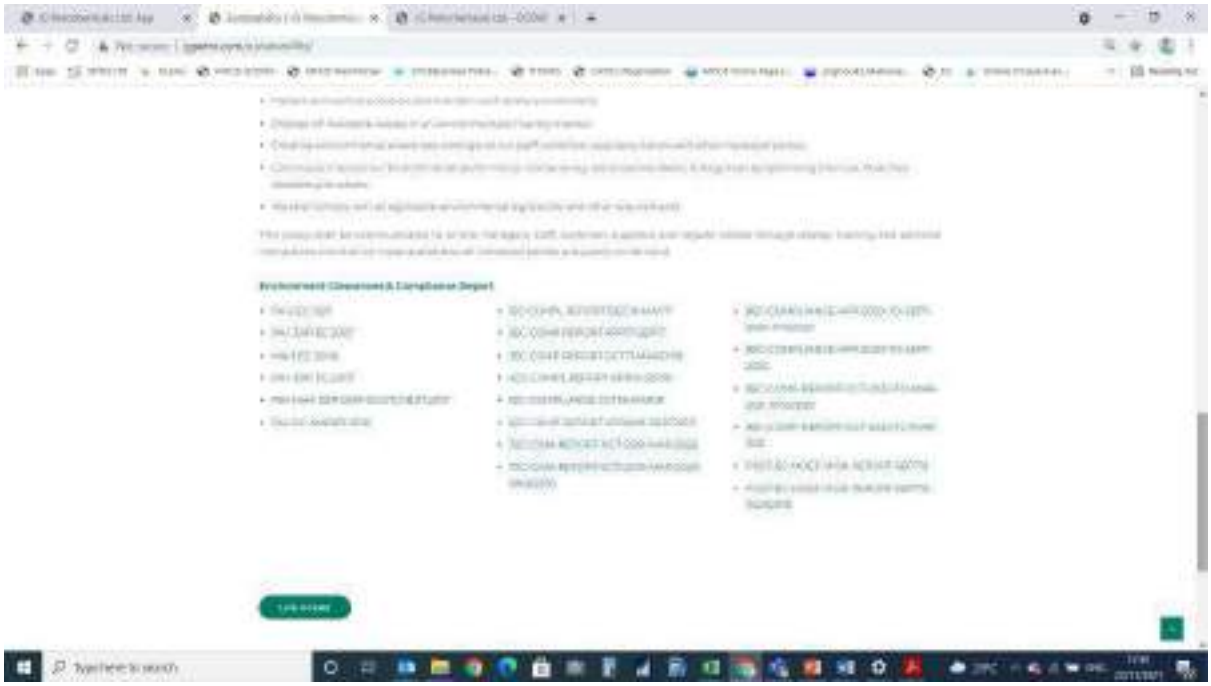





ABOUT US
PRODUCTS
SUSTAINABILITY
MEDIA
INVESTORS
CSR
CAREERS
CONTACT US
IGPL
Sustainability
Quality Management Systems


Quality Management Systems
The primary goal of IGPL is to achieve the highest standards of quality in our business unit's practices and operations without compromise. Quality performance is one of the cornerstones of our Company's culture and is considered a personal responsibility of all employees. IGPL is an ISO accredited Company in aspect of the following standards –
– ISO 9001:2015 – Quality Management Systems
– ISO 14001:2015 – Environment Management System
Ensuring that we fully identify and conform to the needs of our customers. To fulfill and exceed customer needs and expectations by delivering a quality product in a consistent and timely manner. Continuous improvement in our process. IGPL's management is fully committed to the Quality Policy through active participation in quality improvement activities.





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.

ANNEXURE-XXIV

PHOTOS OF EXPANSION PROJECT

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-

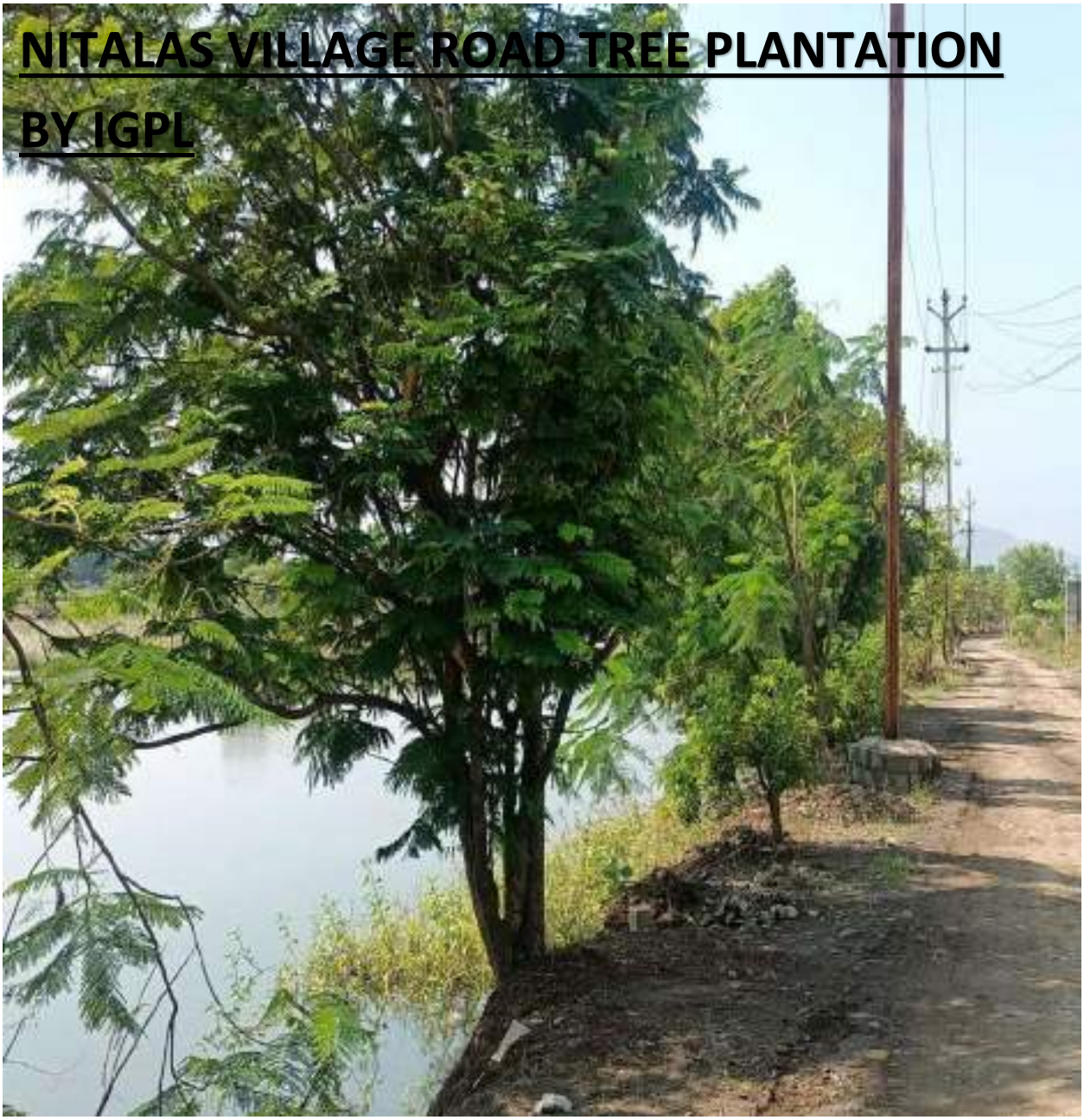
UF AND RO BUILDING-

ANNEXURE - XXVI

TREE SURVIVAL REPORT PLANTED AT GHOT CAMP & NITLAS

RAMKY ROAD TREE PLANTATION BY IGPL

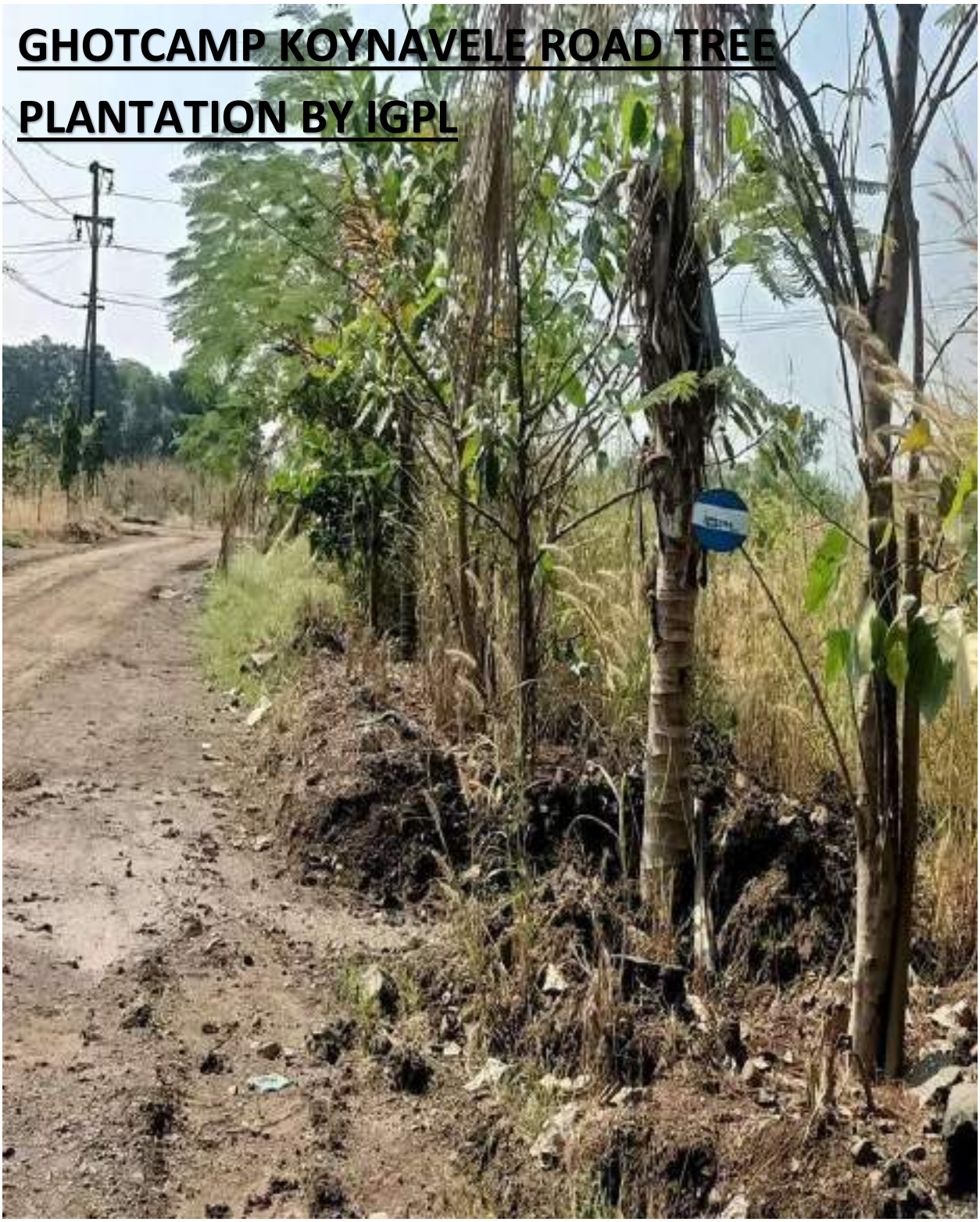
NITALAS VILLAGE ROAD TREE PLANTATION BY IGPL



GHOTCAMP KOYNAVELE ROAD TREE PLANTATION BY IGPL

RAMKY ROAD TREE PLANTATION BY IGPL

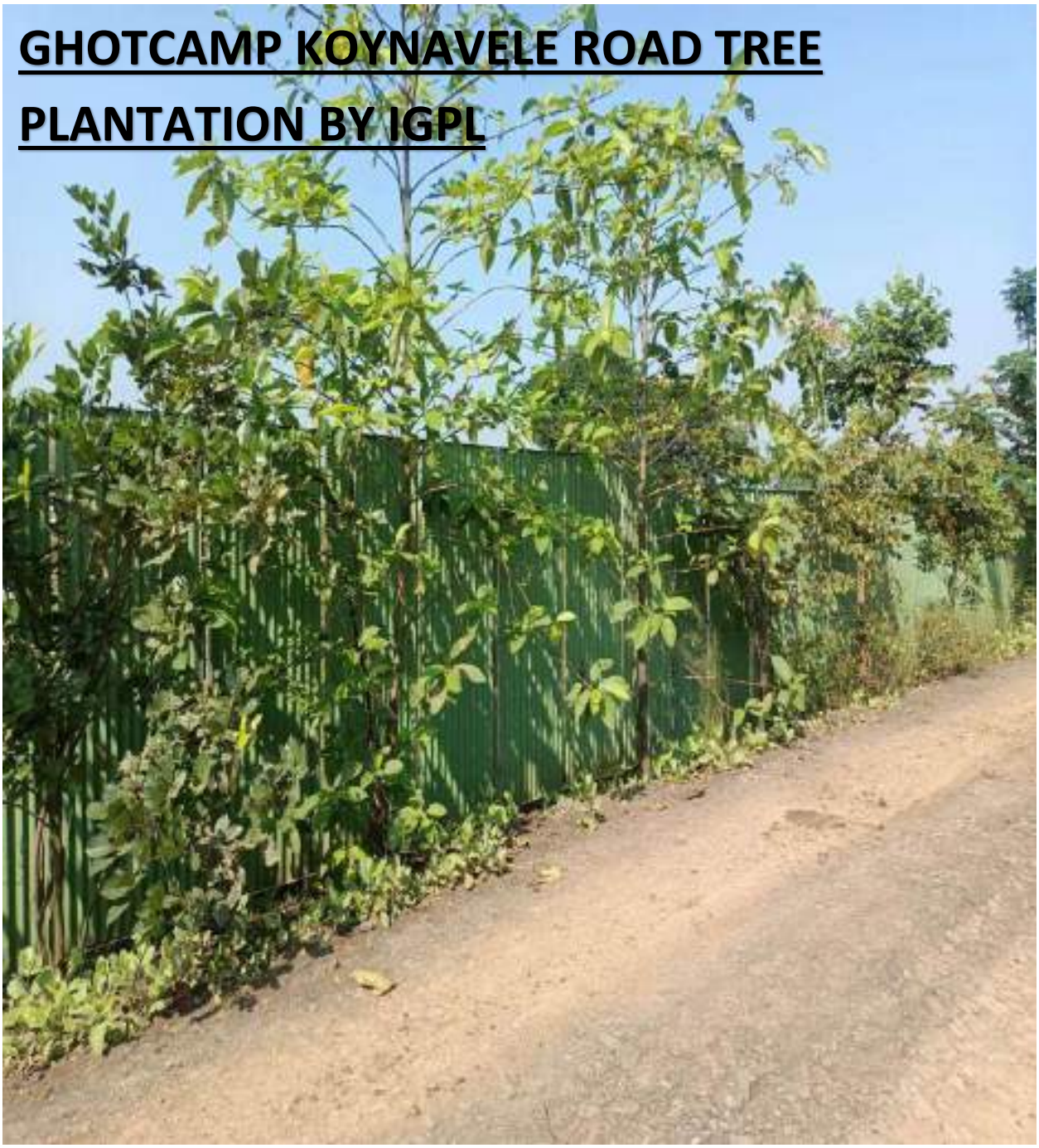
GHOTCAMP KOYNAVELE ROAD TREE PLANTATION BY IGPL



NITALAS VILLAGE ROAD TREE PLANTATION BY IGPL

NITALAS VILLAGE ROAD TREE PLANTATION BY IGPL

GHOTCAMP KOYNAVELE ROAD TREE PLANTATION BY IGPL



NEW PLANTATION DONE AT NITLAS VILLAGE


IGPL
हार्दिक आभार...