

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

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

This Environmental Clearance was obtained for debottlenecking of plant for capacity 26110 TPA. Consolidated Consent to Operate for existing Plant PA –I & PA – II as well as for expanded PA – III plant is obtained. Now production is started. Actual production details as per listed below:

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

to Grid)				
Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of Environment & Forest, Government of India vide letter No. J-11013/14/2007-IAII (I) dated 12.06.2007 is complied.				
<p>The project activity is listed at 5 (f) in the Schedule of the EIA Notification, 2006 and is of 'B' Category being in the industrial area and shall not require Public Hearing. Based on the information provided by you, the Ministry of Environment and Forest hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and Generation condition</p>				
OK. Above condition is noted.				
A.	Specific Conditions:			
i.	<p>Due to this proposed de-bottlenecking, there will be a reduction in the generation of pollutants. The air pollution load will be reduce from 375.6 kg/hr to 366.50 kg/hr for PA-I and from 398.3 kg/hr to 336.40 kg/hr for PA-II. This will reduce the TOC in the scrubber outlet as inlet load will be reduced. Total DM water usage will be reduced from 3816 m³/hr to 3600 m³/hr due to reduced organics levels in the off gases.</p>	<p>We are regularly monitoring Air pollution through MoEF recognized laboratory. TOC monitoring reports for last one year are enclosed under ANNEXURE -II.</p> <p>We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD</p>		
ii.	<p>The DM makeup water will further be reduced to 2348 m³/month from 2434 m³/month. The total effluent generation from both the plants will reduce from 2304 m³/hr to 2088 m³/hr.</p>	<p>Yes, Agreed. Data on Actual Water Consumption & Waste Water Generation for last one year is enclosed as ANNEXURE - III</p>		
iii.	<p>There will be no change in the quantity of</p>	<p>Yes, Agreed. Data on Residue Generation for</p>		

	distillate residue generated. It will be disposed off as per the authorization from MPCB.	last one year is enclosed as ANNEXURE -IV
iv.	There will be no increase in Storage tanks.	There has been no change in Storage Tanks / Quantity.
v.	All other conditions prescribed by Ministry at the time of expansion of PA- II will be prevail.	Yes six monthly reports are being submitted regularly
vi.	Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained	Yes, Noted. Work zone monitoring reports for last one year are enclosed under ANNEXURE - II
vii.	Raw material will be stored in covered yards. Water sprinkling arrangement should be made in the raw material stock yard to control fugitive emissions.	Major Raw Material is o-Xylene which is liquid in nature. Stored in Storage tanks with sprinklers arrangement. Photograph showing designated storage area for storage of raw material: o-Xylene are enclosed as ANNEXURE - VI
viii.	Acoustic enclosure will be installed to limit the noise levels below 85 dBA.	Yes, Enclosures have been provided at various Noise Generating locations. Monitoring Reports for last one year are enclosed under ANNEXURE - II
ix.	The company shall strictly follow all the relevant guidelines of CPCB given from time to time.	Agreed / Is being done
x.	25% of the total land area will developed as green belt.	Yes, we have developed green belt in company premises. Plan showing Green belt enclosed as ANNEXURE - VII .

xi.	The company shall harvest surface as well as rainwater from the rooftops of the building proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Yes, we are in process of installation of Rain Water Harvesting (RWH). We have installed rainwater harvesting at two locations and these are in operation .
xii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	<p>Yes, regular Occupational Health surveillance of the workers is carried out regularly as required under Factories act. A copy of form-VII Annual Medical Examination report of Workers is enclosed as <u>Annexure-VIII A & Annexure VIII</u></p> <p>Company has well equipped Occupational Health center (OHC) with two beds located in its admin building.</p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year.</p>

B.	General Conditions:	
i.	The project authority must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and State Government.	Yes agreed. We have received Consent to Operate from Maharashtra Pollution Control Board vide no. Formate 1.0/ BO/CAC-Cell/UAN No. 30425/2 nd CAC/1806000105 Dated: 02/06/2018, Copy of same is enclosed

		as Annexure – XV.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
iii.	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four Ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the SPCB. It will be ensured that at least one monitoring station is set up in up-wind & down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and SPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.	We are regularly monitoring Ambient Air Quality Monitoring through MoEF recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises and nearby villages. Ambient Air Monitoring Reports for last one year is enclosed as ANNEXURE – II
iv.	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.	We are regularly monitoring effluent quality through MoEF recognized laboratory. Effluent monitored at intermediate stages of ETP. Inlet / Outlet of ETP monitoring Reports for last one year are enclosed under ANNEXURE - II
v.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422	Analysis being done as per MPCB consent norms and has been extended to cover all parameters as per GSR 422 (E). Reports are

	(E) dated 19th May 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	enclosed under ANNEXURE - II
vi.	The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Yes, above condition is complied with. We have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for last one year are enclosed under ANNEXURE - II showing compliance to in plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vii.	Proper House Keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.	Yes, proper house keeping and adequate occupational health programs are taken up regularly. Occupational Health surveillance of the workers is carried out regularly as required under Factories act. Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Details of OHC provided at site are enclosed as <u>Annexure-VIII</u> . Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. Note on Occupational health surveillance programme enclosed as ANNEXURE - VIII
viii.	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer

	functions shall be set up under the control of a Senior Executive.	looks after safety related compliance.
ix.	Separate funds will be earmarked for the environmental protection measures and shall be used judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Yes, we have provided separate funds for Environmental Protection Measures and we affirm that same will not be diverted for any other purpose, Budget for Environment Protection is enclosed as ANNEXURE - IX
x.	Concerned Regional Office of this Ministry / SPCB / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	Yes, we are regularly submitting six monthly compliance report to the ministry / SPCB / CPCB. Please refer ANNEXURE - V for last submitted six monthly compliance report.
xi.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in. The advertisement should be made within 7 days from the date of issue of the clearance letter and copy of the same should be forwarded to the	Yes, we have advertised in two local newspapers in vernacular language's such as Marathi at Navshakti & in English at Free Press Journal. Copy of advertisement is enclosed as ANNEXURE - X .

	Ministry's Regional Office at Bhopal.	
xii.	The project authority shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Not applicable as production change worked out on the basis of changing over to a high yield catalyst.
	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Yes, Agreed.
	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.	Yes. Noted.

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

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

The project has been completed in the year 2013.

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

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

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

A.	SPECIFIC CONDITIONS:
i)	<p>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.</p> <p>The existing ETP plant is revamped to treat the additional load from the expansion before commissioning the Phase III plant. A guard pond is already provided in existing ETP. Bioassay test is already carried out on our effluent through MOEF recognized third party. Company is already a Member of CETP and all effluents shall be disposed to CETP.</p> <p>The note on revamping of ETP is enclosed as ANNEXURE - XI.</p> <p>We have online emission and effluent monitoring system connected to CPCB and MPCB servers .Ref ANNEXURE XVI .</p>
ii)	<p>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</p> <p>Process emissions are controlled by three stage scrubbers. Provision shall be made of sampling port hole and monitoring is being done. DG sets are provided with stack height of 31 m which is as per the Consent granted to our unit. Regular monitoring is carried out through MoEF recognized laboratory. Monitoring reports for existing plants are being submitted to SPCB, CPCB and Ministry's Regional Office at Nagpur .</p>

	of adequate height as per CPCB / state pollution Control Board standards.	All stacks are connected to CPCB and MPCB OCEMS system.
iii)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their Website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal office of CPCB and State Pollution Control Board. The Pollutant levels namely, SPM, RSPM, SO₂, NO_x & CO (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We are uploading compliance data on our web site. We shall file 6 monthly returns to various Authorities as stipulated. We are regularly monitoring ambient air quality and stack emissions from various stacks. Display Board as specified by Honorable Supreme Court is put up at our Gate. Please refer ANNEXURE - XII .
iv)	Fugitive emission in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.	We monitor the fugitive emissions at work place/shop floor as desired. The monitoring of work zone is carried out regularly in our Phase I and Phase II plants. Please refer ANNEXURE - II .
v)	The company shall explore the possibility of sending the spent carbon and bio sludge to the cement plant plants or spent carbon should be incinerated.	Spent carbon is generated from ETP tertiary treatment process and thus unsuitable for burning in cement plants. Also, quantity generated is very small (10 TPA max) and there is no Cement plant in 500 km distance from our unit. Hence, we shall dispose this in CHWTSDF Taloja which is located in 2 km distance from our unit. Copy of MWML Membership Certificate is enclosed as ANNEXURE - XIII & Copy of Hazardous Waste Return submitted in form - IV for 2017 - 2018 is enclosed as ANNEXURE - XIV .
vi)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, as amended from time to time.	We shall abide by this strictly. The site details are submitted to the DISH as they are the prescribed authority under the MSIHC Rules. Combined consent to operate / Authorization from MPCB for existing unit as well as expanded PA - III Plant is obtained & we have received renewal of same vide No. Formate 1.0/BO/CAC-Cell/UAN No.30425/2 nd CAC/1086000105 Dated: 02/06/2018 validity: 28.02.2018 to

	Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.	31.08.2021 (Annexure - XV). We shall abide by the conditions of the Authorization. All hazardous chemicals/wastes are transported as per MVA, 1989 and through approved transporters of MPCB.
vii)	The project authority shall obtain the membership of TSDF for disposal of solid and hazardous waste and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.	Yes complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste from Phase I and Phase II plants to TSDF. Copy of the membership certificate enclosed as ANNEXURE - XIII .
viii)	The company shall develop in land area of 35685 sq. ft, as per the CPCB guidelines to mitigate the effect of fugitive emissions.	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt. Please refer ANNEXURE - VII for details of Green belt developed.
ix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant. Trained Male nurse is provided in all three shifts and Doctor visits the plant 2 hours every day as also we have tie up with local hospitals to attend to medical emergencies. Please refer ANNEXURES - VIII & VIIIA
x)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Complied- entire plant is covered by a hydrant system, which is provided with separate fire water reservoir and emergency pumps (diesel operated). Fire extinguishers are kept in various parts of the plant depending upon type of fire hazard likely.
xi)	The company shall comply with the recommendations made in the EIA/EMP and Risk Assessment Report	We are abiding by the recommendations in the EIA/EMP and Risk assessment study.
B.	GENERAL CONDITIONS:	
i)	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Combined Consent to Operate /Authorization from MPCB is obtained for existing unit as well as expanded PA - III plant (Annexure - XV). We shall abide by the conditions of the Consent /Authorization and other stipulations.

ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alternations in the project proposal from those submitted to this \Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Yes, agreed.
iii)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Yes, agreed.
iv)	The gaseous emissions (NO_x, SO₂ and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions level shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO₂, NO_x and SPM shall be carried.	Regular stack / vent monitoring will be carried out through MoEF recognized laboratory, as is the practice in existing plants. We agree to comply stipulations as above. We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD
iv)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the up wind and down wind directions as well as where maximum ground level concentrations are anticipated.	Yes, the ambient air quality monitoring is carried out regularly in existing plants and same practice will be continued in future.

v)	The overall noise levels in and around the plant area shall kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989 viz. 75 dBA (day Time) and 70 dBA (night time).	Ambient and work place Noise level monitoring is carried out regularly in existing plants and same practice will be continued in future. We have taken all control measures as stipulated to control noise. REFER ANNEXURE II
vii)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management & risk mitigation measures relating to the project shall be implemented.	Yes agreed.
viii)	The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details
ix)	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details
x)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer looks after safety related compliance. Environmental Laboratory Set up in ETP to look after performance monitoring if ETP, all other sampling outsourced.
xi)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of	Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in expansion project.

	Environment & Forests as well as the State Government along with the implementation schedule from all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	
xii)	The implementation of the project vis-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.	Yes- being done regularly.
xiii)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local body and local NGO, if any from whom suggestions / representations, if any were received while processing the proposal.	Yes –submitted to Ghot Grampanchayat.
xiv)	The project proponent shall also submit six monthly reports on the status of compliance of conditions stipulated E C conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and State Pollution Control Board.	Yes six monthly reports are being submitted regularly
xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in . This shall be advertise within seven days from the date of issue of the clearance letter, at least two local Newspapers widely circulated in the	Complied- advertisement was placed in media on obtaining the Environmental clearance. Refers ANNEXURE X

	region around the project, one of which shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Ministry's Regional Office of the Ministry.	
xvi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of construction.	The implementation of Phase III PA plant is done. Benzoic acid recovery project which envisages recovery of benzoic acid from residue and waste water is installed and commissioned- copy of combined Consent to Operate for all units enclosed- ANNEXURE - XV
7)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Yes, above condition is noted.
8)	The Ministry reserves the right to stipulate additional conditions. If found necessary. The company is a time bound manner implements these conditions.	Yes, above condition is noted.
9)	Any appeal against this environmental clearance shall lie with the National Appellate Authority, if proffered within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.	Yes, Noted.
10)	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of pollution) Act, 1981, The Environment Protection Act 1986, Hazardous Waste (Management & Handling) Rules, 2003/2008 and Public Liability Insurance Act, 1991 along with their amendments and rules.	Yes, Noted.

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

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

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

Production details of existing unit as per listed below::

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

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

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

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

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

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

OK. Above condition is noted.

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

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

	be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF & CC, CPCB and SPCB.	(24*7) monitoring system for flow measurement and for measurement of pollutant from air emission within the unit. We have connected online emission monitoring system to CPCB / MPCB Server and data will be uploaded on company's website regularly. Refer Annexure – XVII for OCEMS dashboard
vi.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Yes, will be Complied with- entire plant will be covered by a hydrant system, which will be provided with separate fire water pump and emergency pumps (diesel operated) as per existing unit. Fire extinguishers will have kept in various parts of the plant depending upon type of fire hazard likely.
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yes, it is carried out regularly in existing plants and same practice will be adopted in proposed unit. Trained Male nurse is provided in all three shifts and Doctor visits the plant 2 hours every day as also we have tie up with local hospitals to attend to medical emergencies. REFER ANNEXURE VIII & VIIIA
viii.	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	We are having necessary permissions for existing plants. We have already applied to MPCB for CTE, which covers the requirement from the expansion plants. We are member of CHW-TSDF REF ANNEXURE XII

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

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

v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Yes, we have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. Same practice will be carried out for proposed expansion (PA- IV). All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for last one year are enclosed under ANNEXURE - II showing compliance to in existing plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Yes, We have installed rain water Harvesting System (RWH) to conserve fresh water.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Yes, Training will be carried out of all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for regular basis.
viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA & EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Yes agreed. All Environmental Protection measures will be carried out as per documents submitted to ministry.
ix.	The company shall undertake all relevant	Yes, the company contributes to nearby

	measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Ashram / local village Grampanchayat.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Company is undertaking various community welfare measure for improvement of the environment as under: <ol style="list-style-type: none"> 1. Donation to Paramshanti Vridhasharam Trust, Taloja @ Rs. 13,750/- per month 2. Donation to Blind Organization of India. 3. Donation to Sarvajani Durga Mata Navrathri Utsav, Ghot Village. Donation to Hanuman Janmotsav, Ghot village.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment Management looked after by Vice President (Production), Manager (Env) and directly reporting to Executive Director. Separate Safety Officer looks after Safety related compliances. Environment Laboratory is set up in ETP to look after performance monitoring of ETP. All other sampling and analysis is outsourced from MoEFFCC approved laboratories
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Yes, Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in proposed expansion project.
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal	Yes, Agreed, we will arrange to send copy of Environmental Clearance letter to

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

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

LIST OF ANNEXURES

ANNEXURE NO.		<u>DETAILS</u>
ANNEXURE-II	:	Environmental Monitoring Reports for: <ul style="list-style-type: none"> - Ambient Air Quality, - Ambient Noise Level, - Stack Emission Monitoring, - Work Room Air Quality Monitoring - ETP Inlet / Outlet Monitoring Reports
ANNEXURE – III	:	Data on Water Consumption & Waste Water Generation
ANNEXURE – IV	:	Data on Residue Generation
ANNEXURE – V	:	Ack. Copy of last six monthly compliance report submitted
ANNEXURE – VI	:	Photograph Showing Designated Area for Raw Material Storage
ANNEXURE – VII	:	Layout Plan
ANNEXURES - VIII & VIIIA	:	Details of Occupational Health Surveillance Programme
ANNEXURE - IX	:	Budget for Environmental Protection
ANNEXURE - X	:	Copy of Advertisements
ANNEXURE – XI	:	Note on revamped ETP
ANNEXURE – XII	:	Photograph of display board
ANNEXURE – XIII	:	Copy of MWML Membership Certificate
ANNEXURE – XIV	:	Copy Hazardous Waste Returns for year 2017 - 2018
ANNEXURE – XV	:	Copy of Consent to Operate
ANNEXURE-XVI	:	OCEMS Dashboard
ANNEXURE-XVII	:	CSR Details

ANNEXURE-XVIII		ESR/CER Budget
ANNEXURE-IXX		EC Amendment

ANNEXURE VIII

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

1. All employees and contract employees are undergoing bi-annually medical check up every year in the month of January and July through Certifying Surgeon appointed by State Government of Maharashtra.
2. These medical check ups includes general medical examination, weight, height, eye sight, Blood Pressure, lung function test, routine blood examination, routine urine examination and X-ray once in a year.
3. Medical check up reports are available since 2006. As due to flood in July, 2005 all records since commissioning of the plant at Taloja have been lost.
4. Pre-employment medical check up is being carried out for each new recruitee.
5. Employees if meets with any accident or fall sick during the working ours, such employees is admitted or giving treatment in Dr. Gandhi's Hospital, Panvel located at about 14 KM from factory.
6. 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.

EFFLUENT TREATMENT PLANT OVERVIEW

1. Description:

1.1. Primary Treatment

The incoming process effluents from the plant are subjected to oil removal in a oil & grease trap. The trap is provided with a slotted pipe for skimming the oil collected at the surface of the tank. The oils are directed near the oil drainpipe collected in drums.

The effluent devoid of oils flows by gravity to the Equalization cum Neutralization tanks. Here hydraulic & organic fluctuations are taken care by mixing of effluents via air blowers. The effluent from the demineralization plant is collected in a separate equalization cum neutralization tank. For neutralization of effluents, acid and caustic dosing tanks are provided. For settling of suspended solids, Polyelectrolyte/alum is added. The pH of the effluent is adjusted to be around 5-5.5 in equalization/neutralization tanks.

When COD of incoming effluents is high, it can be taken in emergency holding tank. The effluent after neutralization is pumped to flash mixer by centrifugal pumps. Required solution of alum as coagulant and Polyelectrolyte as flocculent is dosed in the flash mixer.

The effluent along with the flocculent flows to the primary clarifier for separation of solids. The solids settle at the bottom of the Primary clarifier as primary sludge, it is then pumped to sludge collection tank.

1.2. Secondary Treatment

The supernatant from primary clarifier flows via gravity to Trickling Filter Sump. The effluent is pumped to trickling filter with the help of re-circulation pumps at a specified rate. The effluent is spread over filter media with the help of rotary distributor. The effluent percolates down through the filter bed. The effluent is diverted to two compartments of the tricking filter sump.

Effluent from one compartment of the sump is continuously re-circulated along with the primary treated effluent. Effluent from second section is pumped to Aeration tank for biodegradation of effluents along with addition of nutrients.

Oxygen required for the bio mass is provided by the surface aerator. The effluent along with the bio mass flows by gravity to secondary settler/clarifier. Settled sludge is re-circulated back to the aeration tank to maintain a required concentration of sludge in the Aeration tank. Excess sludge generated is pumped to Sludge Collection tank. The clear supernatant flows in to effluent sump from where it is pumped for tertiary treatment.

1.3. Tertiary Treatment

Tertiary treatment includes pumping the effluent through Multi Grain Filter and Activated Carbon Filter for removal of suspended solids & dissolved organic.

The final treated effluent is collected in a final collection sump. From the final treated effluent sump the treated effluent is pumped to MIDC underground line & is carried to CETP.

1.4. Sludge Handling

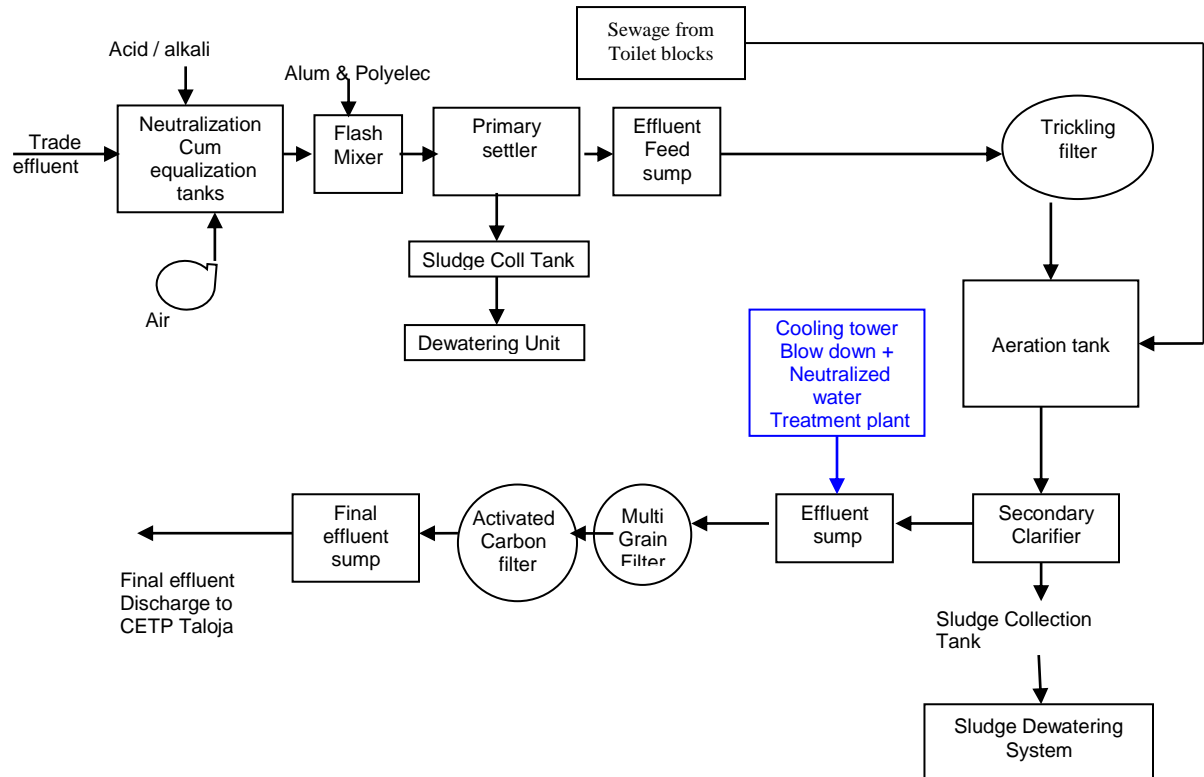
Sludge from sludge collection tank is pumped to dewatering system where the dry sludge is collected in bags and the filtrate flows via drain to Trickling filter sump. Sludge is disposed to sludge disposal site CHWTSDF, Taloja.

Details of various units provided in ETP are as below:

SR. NO.	TAG NO.	DESCRIPTION	DIMENSION(metre)						VOLUME (cum)		M.O.C.
			L	B	H	D	SW D	FB	LIQUID	TOTAL	
1.	T-1459C/D	Blending Tank (02 Nos)	6.0	4.0	3.5		3.0	0.5	72	144	R.C.C. Acid proof brick lining
2.	T-1460 A	Flocculator Tank				1.5	1.2	0.3	6.24	6.24	R.C.C.
3.	G-1457	New Primary Clarifier (60° Hopper Bottom)	2.0	2.0	4.6		3.8	0.3	15.2	15.2	R.C.C.
4.	G-1458	New Secondary Clarifier			2.5	6.1	2.20	0.3	62.17	62.17	R.C.C.
5.	T-1467 C	New Sump for Treated effluent (Final Effluent)	8.0	14.5	2.5		2.0	0.5	214	214	R.C.C.
6.	T-1467 B	New Sump for CT Blowdown	8.0	4.5	2.5		2.0	0.5	72	72	R.C.C.
7.	T-1469	New Sludge Collection Tank			2.48	2.6	2.0		12	12	R.C.C
8.	PSF-1455	Multi Grade Filter			3.31	1.4	M.S. coal tar painted				
9.	ACF-1455	Activated Carbon Filter			3.36	1.6	M.S. coal tar painted				
10.	T-1468	Polyelectrolyte Preparation and Dosing Tank			1.8	0.9	1.5	0.3	0.953		HDPE
11.	T-1460	Flash Mixer Tank	0.3	0.3	0.9		0.6	0.3	0.054		FRB

12.	T-1456	Equalization cum Neutralization Tank For DM Effluent	6.0	4.8	3.5		3.2	0.3	92.16		R.C.C. Acid proof brick lining
13.	T-1458	Emergency Holding Tank	6.0	2.6	3.5		3.2	0.3	49.92		R.C.C. Acid proof brick lining
14.	T-1459 A/B	Equalization cum Neutralization Tanks For Main Plant (02 Nos)	6.0	6.0	3.5		3.2	0.3	115.2	230.4	R.C.C. Acid proof brick lining
15.	SDB-4	Sludge Drying Bed (01 No)	6.1	5.3			0.3	0.3	9.7	9.7	R.C.C
16.	T-1464	Aeration Tank	9.2	9.2	2.75		2.57	0.5			R.C.C
17.	T-1467A	Old CT blow-down sump	11.3 4	3.4	2.5		2.0	0.5	60	60	R.C.C.
18.	G-1455	Oil & Grease Trap For Tank Farm Effluent	7.0	2.0	1.2						R.C.C
19.	T-1466	New Effluent Sump	3.0	3.0	2.3		2.0	0.3	23	23	R.C.C.

Block diagram – ETP at IG Petrochemicals Ltd.



ANNEXURE – III

Data on Water Consumption

Period: October 2017 – March 2018

Month	Consumption (M ³)/month	Consumption (M ³)/day
October 2017	78714	2539
November 2017	91948	3065
December 2017	78803	2542
January 2018	79425	2562
February 2018	71784	2564
March 2018	83598	2697

EFFLUENT GETERATED**Period: October 2017 – March 2018**

Month	Discharge to CETP (M³)	EFFLUENT DISCHARGED M3/DAY
October 2017	10676	344
November 2017	11033	368
December 2017	8794	284
January 2018	8878	286
February 2018	7826	279
March 2018	8289	267

ANNEXURE - IV

Data on Residue Generation
Period: October 2017 – March 2018

Month	Residue Generation mt
October 2017	78.56
November 2017	65.77
December 2017	55.51
January 2018	72.55
February 2018	43.32
March 2018	51.97

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	<i>Under Proposed Additional Capacities of Products</i> 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 885 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 Talaja, Tehsil Panvel, District Raigad (Maharashtra), as stated in para 3 above.

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

SK
20/2/2018
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032 (Maharashtra)
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Nagpur (Maharashtra)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor Opp. Cine Planet, Sion Circle, Mumbai - 400 022 (Maharashtra)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, New Delhi
6. Guard File/Monitoring File/Record File

SK
20/2/2018
(S. K. Srivastava)
Scientist E

ANNEXURE – IX

BUDGET FOR ENVIRONMENT PROTECTION

Description	Capital Cost (Rs. Lakhs)	Recurring Costs per Annum (Rs. Lakhs)
Environmental Monitoring	--	15.00
Green Belt	--	3.00
HW Disposal / Treatment etc.	--	25.00
Effluent Treatment		
Manpower	--	8.00
Power	--	5.50
Chemicals / Nutrients	--	12.00
Miscellaneous R & M	--	22.00
TOTAL	--	47.50
Improvements to ETP		
- Ozonation	35.00	--
- connecting sewage to ETP	15.00	--
- Demineralization of cooling tower blowdown & reuse	45.00	--
- Canteen waste treatment	5.00	--
- Diffused aeration system to replace Surface aerators	10.00	--
Total	110.00	90.50



Towards sustainable growth

bsi.

Mumbai Waste Management Limited

Certificate

M/s. I.G. Petrochemicals Limited

is a registered member of

Taloja

CHW-TSDF at MIDC, Taloja

for safe & secure disposal of
Hazardous Waste.

Membership no.: MWML - HzW .T.A.L....946.

This Certificate is valid up to

March, 31st, 2020

Somnathi Malgar
Head - MWML

Dinkar Adhavi
Director

MWML Laboratory is accredited by NABL and Approved by MoEF

Photographs of Raw Material Storage





1. Date of Information Update : 8 JUNE 2018
 १) माहिती अद्ययावत केल्याची तारीख : ८ JUNE 2018
 2. NAME OF COMPANY : I G PETROCHEMICALS LTD.
 २) कंपनीचे नाव : आय.जी. पेट्रोकेमिकल्स लिमिटेड.
 3. Address : पत्ता : प्लॉट नं. टी२, एम.आय.डी.सी.सी. तलोजा जिल्हा - रायगड ४१०२०६. Plot No. T2, MIDC Taloja Dist : Raigad, 41
 4. Contact Person : J. K. SABOO Contact Number : 022 39289102
 ४) प्रति संपर्क : जे.के. साबू संपर्क : क्र. ०२२३९२९९१०२
 Designation : Executive Director
 5. Total Capacity / Production :
 ५) एकूण क्षमता / उत्पादन

Weeks आठवडा	Date तारीख	Raw Materials कच्चा माल	Products उत्पादन	Wastes वेस्ट
Previous Week मागील आठवडा	From पासून २५ MAY To पर्यंत ३१ MAY	3788.108	PA = 3760.600MT BA = 20.000MT	NIL
Current Week चालू आठवडा	From पासून १ JUNE To पर्यंत ७ JUNE	2541.067	PA = 3023.300MT BA = 20.000MT	NIL

6. Production Flow Chart indicating point of waste (solid, liquid & gaseous) generation :

६) कचरा बिंदू दर्शविणारा उत्पादन प्रवाह चार्ट

7. Consent under Air and Water Act issued on 31-08-2014, valid upto 28-08-2018

७) वायु आणि जल अधिनियम अंतर्गत समति. वेध

(a) Condition for Effluent Discharge : 639 M³/Day

अ) सांडपाणी स्वच्छी स्थिती 639 M³/Day

(i) Quantity of Effluent per day : i) दिवसाचे सांडपाणी उत्सर्जन

Trade Effluent औद्योगिक सांडपाणी	Non - Trade Effluent इतर सांडपाणी
2.16 M ³ /Day	0.9 M ³ /Day

(ii) Quantity of Treated Effluent (specify the relevant pollutant) : ii) प्रक्रिया झालेले सांडपाणी

(a) PH : 7.7 (b) TSS : 45 mg/L (c) TDS : 1350 mg/L (d) BOD : 20 mg/L

a) पीएच Limit: 6.5 to 9.0 b) टी.एस.एस. Limit: 100 mg/L c) टी.डी.एस. Limit: 2100 mg/L d) बी.ओ.डी. Limit: 100 mg/L

(iii) Mode of Disposal of Treated Effluent : CETP iii) प्रक्रिया झालेल्या सांडपाण्याची विल्होवाटची पध्दत सी.ई.टी.

7. (b) Conditions for Air Emissions b) उत्सर्जन अट :

(i) Stack Height(s) : 55 M (ii) Capacity of DG set : 2000 KVA

i) धिमणी उंची ii) डीजी सेट क्षमता

(iii) Venturi Scrubber Height : 50 M (3 Nos) ii) डीजी सेट क्षमता

Fuel date इंधन तारीख	DG set डीजी सेट	Furnance फर्नेस	Boiler बॉयलर
Type of fuel इंधन प्रकार	HSD एचएसडी	F. OIL/Residue ऑयल फरनेस / अवशेष	F. OIL फरनेस आइल
Quantity of fuel इंधनाची मात्रा			
Pollutants प्रदूषके	1.5% 20 SO ₂ kg/Day	1.5% 20 SO ₂ kg/Day	1.5% 20 SO ₂ kg/Day

(iv) Quality of Air Emission (Specify the relevant pollutant for the industry) : 0.5 ppm: 32 mg/m³ 2.0 Mts. 1.0 ppm 30.0 SO₂ 1.2 ppm

(iv) वायु उत्सर्जन प्रमाण

8. Authorization under Hazardous Waste (Management & Handling) Rules issued on 21-08-2014, valid upto 28-08-2018

8) घातक टाळावू पदार्थाच्या अंतर्गत अधिकृतता दिलेले संमती पत्र जारी आहे 21-08-2014 पर्यंत 28-08-2018

8. (a) Authorization granted for HW generation under the condition :

(i) Category of waste generated : A1, A2, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

i) उत्पन्न कचऱ्याचे वर्गीकरण

8) (a) वा परिस्थितीनुसार घातक टाळावू पदार्थाच्या निर्मितीसाठी मंजूरी दिली आहे.

(ii) Quantity of waste at storage facility : 2.0 Mts.

ii) एकूण जमा कचरा साठवण सुविधा 2.0 Mts.

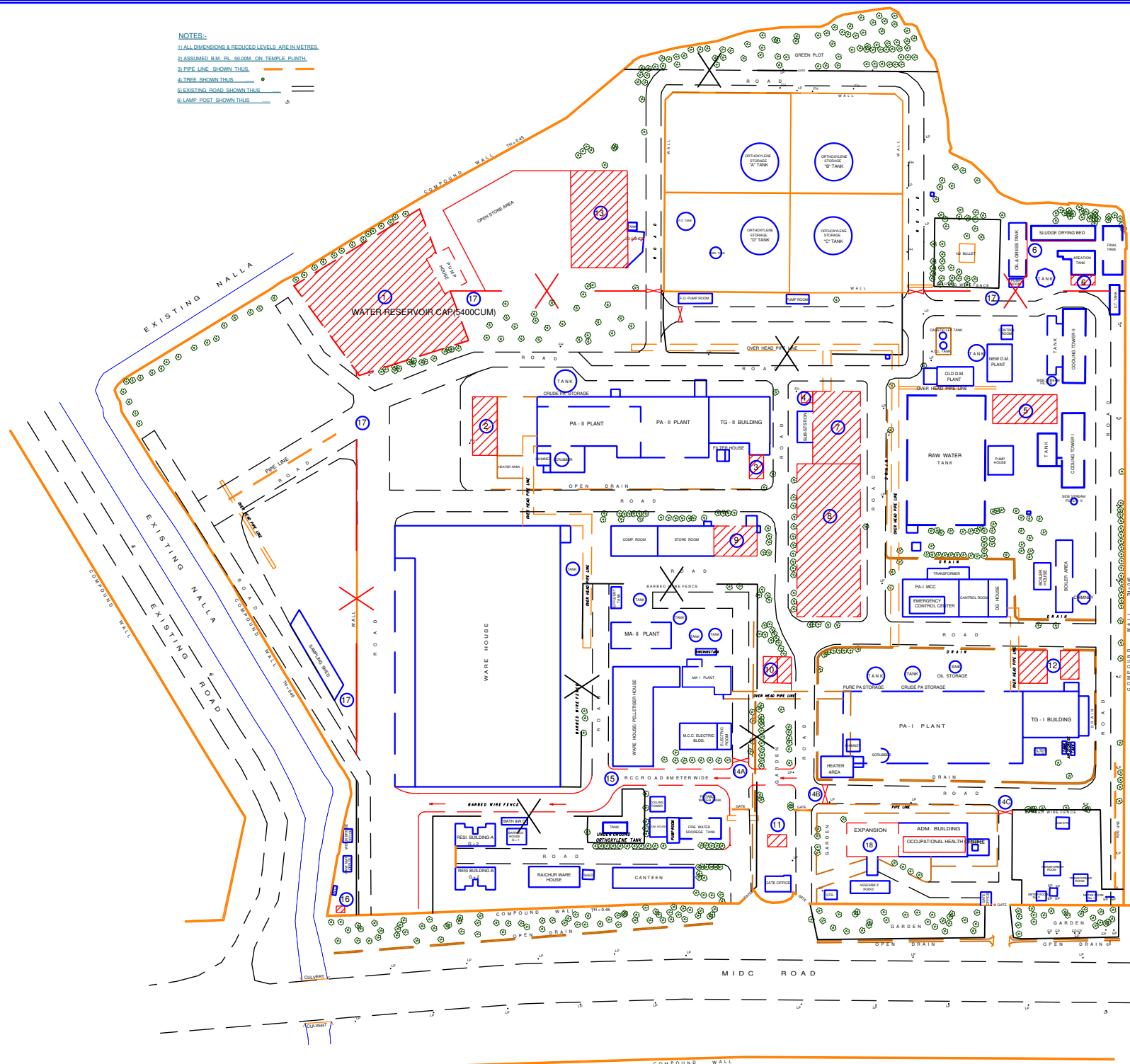
(iii) Waste disposal facility : MWML - Talaja

iii) कचरा विल्होवाट सुविधा





NOTES:
 1. ALL DIMENSIONS & REDUCED LEVELS ARE IN METRES.
 2. ASSUMED B.M. IN 50.00M ON TEMPLE PLINTH.
 3. PIPE LINE SHOWN THIS
 4. ALTERED SHOWN THIS
 5. EXISTING ROAD SHOWN THIS
 6. LAMP POST SHOWN THIS



PROPOSED EXPANSION
 FOR PA - 3 PLANT.

DETAILS :-

1. FIRE WATER 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



MED - IND Concepts

HEALTH CARE SERVICES

HEALTH REGISTER

IG PETROCHEMICALS LTD.

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 21-02-2018 To 21-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	Sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
1	180004	MR. ANIL KUMAR GHILTA	Male	55		--	--	Customs & Excise		21-02-2018 Fit	Not Applicable	Not Applicable		
2	173018	MR. AMIT KUMAR	Male	36		--	--	Ware house		21-02-2018 Fit	Not Applicable	Not Applicable		
3	250046	MR. NARESH B. SHELAKE	Male	50		--	--	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
4	250030	MR. D. N. NAIK	Male	50		--	--	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
5	250026	MR. B. B. TIETH	Male	50		--	--	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
6	260001	MR. MOHAN B. PATIL	Male	56		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
7	170008	MR. TUKARAM PATIL	Male	51		--	--	Ware house		21-02-2018 Fit	Not Applicable	Not Applicable		
8	170032	MR. RAM GOPAL PAREKH	Male	49		--	--	Ware house		21-02-2018 Fit	Not Applicable	Not Applicable		
9	260019	MR. NARAYAN G. PATIL	Male	50		--	--	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
10	220070	MR. SANJAY D. JAGTAP	Male	41		--	--	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
11	210082	MR. YOGESH N. PATIL	Male	35		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
12	210127	MR. AMOL SURYAWANSHI	Male	29		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
13	210126	MR. AMIT KUMAR JAYSWAL	Male	25		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
14	210135	MR. AKSHAY V. SHINDE	Male	22		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
15	210012	MR. MANIKANT DUBEY	Male	49		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
16	220011	MR. C. D. TAMBE	Male	55		--	--	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
17	210049	MR. MANGESH S. MANJALE	Male	41		--	--	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 21-02-2018 To 21-02-2019

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
18	210034	MR. AVINASH T. DHAWDE	Male	41		—	—	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
19	276010	MR. SAKHARAM KAMBLE	Male			—	—	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
20	260027	MR. SANJAY D. PATIL	Male	42		—	—	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
21	251110	MR. SACHIN HRUDKAR	Male	35		—	—	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
22	2111136	MR. SHANTARAM D. KAMBLE	Male	47		—	—	Mechanical		21-02-2018 Fit	Not Applicable	Not Applicable		
23	2500154	MR. V. P. KULKARNI	Male	50		—	—	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
24	1811106	MR. RAMAKANT GAUTAM	Male	35		—	—	Excise & Customs		21-02-2018 Fit	Not Applicable	Not Applicable		
25	1811007	MR. ANIL KUMAR PANDHY	Male	42		—	—	Excise & Customs		21-02-2018 Fit	Not Applicable	Not Applicable		
26	2500145	MR. S. N. KHADPE	Male	52		—	—	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
27	240012	MR. SHASHIKANT B. SUTAR	Male	49		—	—	O.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
28	240021	MR. VAIBHAV B. PATIL	Male	36		—	—	O.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
29	220026	MR. RAJMAJAMAD PINJARI	Male	31		—	—	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
30	2200195	MR. BHUSHAN PATIL	Male	27		—	—	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
31	112006	MRS. MINI WARRIAR	Female	48		—	—	Accountant		21-02-2018 Fit	Not Applicable	Not Applicable		
32	230113	MR. RAJ MUNDRA	Male	27		—	—	Instrument		21-02-2018 Fit	Not Applicable	Not Applicable		
33	230123	MR. NARENDRA BENDI	Male	36		—	—	Instrument		21-02-2018 Fit	Not Applicable	Not Applicable		
34	230033	MR. T. RANGA PRASAD	Male	60		—	—	Instrument		21-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

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HEALTH REGISTER

From :- 21-02-2018 To 21-02-2019

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35	260007	MR. ANANT P. PATIL	Male	38		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
36	130011	MR. KISHOR D BORADE	Male	44		--	--	HR		21-02-2018 Fit	Not Applicable	Not Applicable		
37	260050	MR. YOGESH C. DESAI	Male	41		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
38	260021	MR. NARAYAN KADAM	Male	49		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
39	220092	MR. SAURABH BANDKAR	Male	24		--	--	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
40	220092	MR. K. SHASHIDHAR REDDY	Male	26		--	--	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
41	240012	MR. SAMEER S. KANE	Male	42		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
42	126013	MR. RAJKISHOR M. KAPAR	Male	43		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
43	250090	MR. ATIL P. BHIDE	Male	47		--	--	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
44	126007	MR. SHRIPAD MATHRE	Male	47		--	--	Instrument		21-02-2018 Fit	Not Applicable	Not Applicable		
45	250025	MR. GIRISH T.	Male	52		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
46	260051	MR. ASANDKUMAR UPADHYAY	Male	43		--	--	Q.C.		21-02-2018 Fit	Not Applicable	Not Applicable		
47	250039	MR. ASHOK V. BAGAL	Male	48		--	--	Production		21-02-2018 Fit	Not Applicable	Not Applicable		
48	122002	MR. DILIP S. BHILIK	Male	44		--	--	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
49	260037	MR. R. R. PRADHAN	Male	42		--	--	Instrument		21-02-2018 Fit	Not Applicable	Not Applicable		
50	260034	MR. VIJAY KUMAR UPADHYAY	Male	51		--	--	Electrical		21-02-2018 Fit	Not Applicable	Not Applicable		
51	111004	MR. ABODIS RAUT	Male	45		--	--	Ware house		21-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. S8000.

FORM NO. 7

HEALTH REGISTER

From :- 21-02-2018 To 21-02-2019

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
52	179006	MR. R. T. BAWASKAR	Male	57		—	—	Warehouse		21-02-2018	Fit	Not Applicable	Not Applicable	—
53	126008	MR. ANANTA B. PATIL	Male	52		—	—	Raw Material		21-02-2018	Fit	Not Applicable	Not Applicable	—
54	260025	MR. SUNIL KAMAT	Male	45		—	—	Q.C		21-02-2018	Fit	Not Applicable	Not Applicable	—
55	250020	MR. SUNIL B. SONAR	Male	47		—	—	Production		21-02-2018	Fit	Not Applicable	Not Applicable	—
56	126018	MR. SANTOSH L. PATIL	Male	40		—	—	Mechanical		21-02-2018	Fit	Not Applicable	Not Applicable	—
57	250042	MR. MURLIDHAR I. SARODE	Male	58		—	—	Production		21-02-2018	Fit	Not Applicable	Not Applicable	—
58	210102	MR. SANDEEP B. KADAM	Male	30		—	—	Mechanical		21-02-2018	Fit	Not Applicable	Not Applicable	—
59	210128	MR. SWAPNIL SAKTHUSHAN	Male	24		—	—	Mechanical		21-02-2018	Fit	Not Applicable	Not Applicable	—
60	125131	MR. MAHADESH DESHPANDE	Male	27		—	—	Production		21-02-2018	Fit	Not Applicable	Not Applicable	—
61	250327	MR. MANGESH S. KALAP	Male	29		—	—	Production		21-02-2018	Fit	Not Applicable	Not Applicable	—
62	250084	MR. YASHWANT R. BASKAR	Male	45		—	—	Production		21-02-2018	Fit	Not Applicable	Not Applicable	—
64	120019	MR. RAMESH N. SONAR	Male	56		—	—	Electrical		21-02-2018	Fit	Not Applicable	Not Applicable	—
64	123006	MR. GINNIKRISHNAN K.	Male	43		—	—	Instrument		21-02-2018	Fit	Not Applicable	Not Applicable	—
65	130603	MR. HEMANT B. PATIL	Male	34		—	—	Personnel		22-02-2018	Fit	Not Applicable	Not Applicable	—
66	160012	MR. M. J. SAWANT	Male	49		—	—	Purchase		22-02-2018	Fit	Not Applicable	Not Applicable	—
67	260042	MR. PRAKASH R. PATIL	Male	42		—	—	Mechanical		22-02-2018	Fit	Not Applicable	Not Applicable	—
68	231007	MR. V. S. GANGURDE	Male	46		—	—	Instrument		22-02-2018	Fit	Not Applicable	Not Applicable	—

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 22-02-2018 To 22-02-2019

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

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Sr. No.	EC. No.	Name of Worker	SEX	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product (handled)	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
69	110006	MS. MEENA R. SHRIVAS	Female	49		--	--	Commercial		22-02-2018	Fit	Not Applicable	Not Applicable	
70	112005	MS. MADHUMATI	Female	53		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
71	120010	MR. RAJESH PURWAR	Male	49		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
72	112003	MR. VITTHAL RANE	Male	53		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
73	120005	MR. ASHOK MIHATRE	Male	57		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
74	120006	MR. KANISHIL S. BHATT	Male	53		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
75	240015	MR. LAXMAN K. DOKRE	Male	43		--	--	Q.C.		22-02-2018	Fit	Not Applicable	Not Applicable	
76	126020	MR. DILIP M. PATIL	Male	47		--	--	Q.C.		22-02-2018	Fit	Not Applicable	Not Applicable	
77	120009	MR. MAHESH SOMANI	Male	54		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
78	112004	MR. PARAS JAIN	Male	50		--	--	Accounts		22-02-2018	Fit	Not Applicable	Not Applicable	
79	210032	MR. PARAG D. KAMBH	Male	42		--	--	Mechanical		22-02-2018	Fit	Not Applicable	Not Applicable	
80	110014	MR. SANTOSH KUMAR PANDRY	Male	44		--	--	Postari		22-02-2018	Fit	Not Applicable	Not Applicable	
81	220051	MR. PRAHARAKAR PARISE	Male	40		--	--	Electrical		22-02-2018	Fit	Not Applicable	Not Applicable	
82	220005	MR. ANIL P. PATIL	Male	51		--	--	Electrical		22-02-2018	Fit	Not Applicable	Not Applicable	
83	110009	MR. MORHANDAS V. K.	Male	49		--	--	Commercial		22-02-2018	Fit	Not Applicable	Not Applicable	
84	250297	MR. NITESH MAJAMUNI	Male	27		--	--	Production		22-02-2018	Fit	Not Applicable	Not Applicable	
85	250512	MR. SWAPNIL SAWOCH	Male	28		--	--	Production		22-02-2018	Fit	Not Applicable	Not Applicable	

Name of Certifying Surgeon

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86	250051	MR. MILIND R. PATHARE	Male	48		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
87	240018	MR. VINAYAK V. PATIL	Male	43		--	--	Q.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
88	250088	MR. RISHIKESH J. PATIL	Male	44		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
89	220071	MR. ANIL S. MAHADIK	Male	47		--	--	Electrical		22-02-2018 Fit	Not Applicable	Not Applicable		
90	220007	MR. SURHASHIP. SARODE	Male	58		--	--	Electrical		22-02-2018 Fit	Not Applicable	Not Applicable		
91	140007	MR. MANISH TIWARI	Male	41		--	--	GDP		22-02-2018 Fit	Not Applicable	Not Applicable		
92	210018	MR. APPAN VETE	Male	52		--	--	Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
93	170003	MR. DOLFI VAZ	Male	47		--	--	Raw Material		22-02-2018 Fit	Not Applicable	Not Applicable		
94	220034	MR. A. V. CHANDNANI	Male	50		--	--	Electrical		22-02-2018 Fit	Not Applicable	Not Applicable		
95	250298	MR. MLRABILAL R. PATIL	Male	41		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
96	170010	MR. KAMLESH PAURAK	Male	44		--	--	Raw Material		22-02-2018 Fit	Not Applicable	Not Applicable		
97	250006	MR. HEMANT S. ATHALYE	Male	53		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
98	250023	MR. DIPAK AROTE	Male	49		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
99	210121	MR. MOHIT KUMAR SINGH	Male	27		--	--	Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
100	250324	MR. P. RAIFSH	Male	36		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		

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101	210135	MR. VIVEK G. K.	Male	27		--	--	Projects		22-02-2018 Fit	Not Applicable	Not Applicable		
102	240005	MR. SUNIL K. SHINDE	Male	49		--	--	Q.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
103	250282	MR. S. VISHWANATHA KUMAR	Male	55		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
104	240007	MR. M. S. MUDALIAR	Male	56		--	--	Q.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
105	240019	MR. RAM K. SHEDDALI	Male	47		--	--	Q.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
106	250279	MR. HANMANTH SURYAVANSHI	Male	34		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
107	250281	MR. D. AJAY KUMAR REDDY	Male	50		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
108	210150	MR. SATYAKRISHNAM ALLURI	Male	25		--	--	Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
109	181005	MR. HARIHARAN SUBRAMANYAM	Male	41		--	--	Excise & Customs		22-02-2018 Fit	Not Applicable	Not Applicable		
110	250338	MR. SACHIN B. VALEKAR	Male	26		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
111	146005	MR. RAJESH K. PATIL	Male	46		--	--	Ware house		22-02-2018 Fit	Not Applicable	Not Applicable		
112	170014	MR. PRAMOD MATHEUR	Male	51		--	--	Raw material		22-02-2018 Fit	Not Applicable	Not Applicable		
113	170015	MR. RAJESH BAGRI	Male	36		--	--	Raw material		22-02-2018 Fit	Not Applicable	Not Applicable		
114	--	MR. NAVNATH S. TIKODE	Male	23		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
115	--	MR. SUNIL S. CHAVAN	Male	25		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
116	200005	MR. C. K. JOSHI	Male	52		--	--	Projects		22-02-2018 Fit	Not Applicable	Not Applicable		
117	110004	MS. PRADNYA P. BHATKAR	Female	48		--	--	Commercial		22-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

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From :- 22-02-2018 To 22-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
118	140006	MR. ANIL SURADKAR	Male	32				EDP		22-02-2018 Fit	Not Applicable	Not Applicable		
119	240010	MR. DEEPAK B. GURJAR	Male	42				Q.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
120	112002	MR. BHASKAR GHARAT	Male	51				Accounts		22-02-2018 Fit	Not Applicable	Not Applicable		
121	124007	MR. V. SHASHIDHAR REDDY	Male	45				Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
122	230130	MR. ATUL V. BHAGAT	Male	28				Instrument		22-02-2018 Fit	Not Applicable	Not Applicable		
123	160004	MR. SURJIT R. RANE	Male	45				Purchase		22-02-2018 Fit	Not Applicable	Not Applicable		
124	230119	MR. JAGDISH MATE	Male	29				Instrument		22-02-2018 Fit	Not Applicable	Not Applicable		
125	230117	MR. SANTOSH TEMGHARE	Male	33				Instrumentation		22-02-2018 Fit	Not Applicable	Not Applicable		
126	240129	MR. NILESH N. INGLE	Male	27				Instrument		22-02-2018 Fit	Not Applicable	Not Applicable		
127	160001	MR. BILAL A. SHAIKH	Male	30				Purchase		22-02-2018 Fit	Not Applicable	Not Applicable		
128	210003	MR. PRADEEP MAZUMDAR	Male	36				Raw material		22-02-2018 Fit	Not Applicable	Not Applicable		
129	120005	MR. PRAVEEN A. MORE	Male	50				Ware house		22-02-2018 Fit	Not Applicable	Not Applicable		
130	240006	MR. R. C. MATHRE	Male	49				Q.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
131	110017	MR. MILIND P. GADRE	Male	42				Commercial		22-02-2018 Fit	Not Applicable	Not Applicable		
132	260041	MR. ASHOK M. NIJURKAR	Male	46				Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
133	160008	MR. AJAY S. INGLE	Male	41				Purchase		22-02-2018 Fit	Not Applicable	Not Applicable		
134	230121	MR. SANDESH B. KADAM	Male	25				Instrument		22-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 22-02-2018 To 22-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Byc product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
135	1200116	MR. VASUDEV SARDIA	Male	39		--	--	Ware house		22-02-2018 Fit	Not Applicable	Not Applicable		
136	230228	MR. VIVEK M. THAJI	Male	25		--	--	Instrumentation		22-02-2018 Fit	Not Applicable	Not Applicable		
137	126016	MR. BALKRISHNA R. PATIL	Male	52		--	--	Instrument		22-02-2018 Fit	Not Applicable	Not Applicable		
138	240009	MR. SANDEEP P. SURVA	Male	49		--	--	O.C.		22-02-2018 Fit	Not Applicable	Not Applicable		
139	190008	MR. BINDESHWAR P. SHAH	Male	46		--	--	Safety		22-02-2018 Fit	Not Applicable	Not Applicable		
140	125342	MR. SOMNATH PETSANGWHE	Male	25		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
141	230009	MR. D. P. BABU	Male	51		--	--			22-02-2018 Fit	Not Applicable	Not Applicable		
142	250276	MR. ROHIDAS JAGR	Male	47		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
143	250325	MR. ROHIT J. SONI	Male	41		--	--	Projects		22-02-2018 Fit	Not Applicable	Not Applicable		
144	125140	MR. NITESH G. MALI	Male	24		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
145	250047	MR. NARESH KHAIRE	Male	55		--	--	Boiler		22-02-2018 Fit	Not Applicable	Not Applicable		
146	111002	MR. R. P. TIWARI	Male	53		--	--	Ware house		22-02-2018 Fit	Not Applicable	Not Applicable		
147	125138	MR. GAJANAN JIDKE	Male	25		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		
148	150004	MR. D. R. NARSING	Male	52		--	--	Stores		22-02-2018 Fit	Not Applicable	Not Applicable		
149	210013	MR. NARESH G. LAD	Male	47		--	--	Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
150	210015	MR. BALKRISHNA M. PATIL	Male	51		--	--	Mechanical		22-02-2018 Fit	Not Applicable	Not Applicable		
151	250048	MR. SANDESH V. PATIL	Male	49		--	--	Production		22-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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

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

Sr. No.	E.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
152	270069	MR. NIVRUTTI UMALE	Male	35		--	--	Electrical		23-02-2018	Fit	Not Applicable	Not Applicable	
153	193016	MR. GOKUL KHATODE	Male	41		--	--	Safety		23-02-2018	Fit	Not Applicable	Not Applicable	
154	210134	MR. KIRAN K. PATIL	Male	32		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
155	121003	MR. SEHYAM Z. MADHAVI	Male	53		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
156	230126	MR. PAWAN CHAUDHARI	Male	31		--	--	Instrumentation		23-02-2018	Fit	Not Applicable	Not Applicable	
157	250330	MR. AMOL N. GHODKE	Male	32		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	
158	250335	MR. WAMANRAO B. KAKADE	Male	49		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	
159	260020	MR. SHIVKAM M. PATIL	Male	52		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
160	210011	MR. NAMIND B. PATIL	Male	55		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
161	250300	MR. SUHAS B. PATIL	Male	27		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	
162	260047	MR. CHANDRAKANT S. BHOIR	Male	44		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	
163	260008	MR. RAMDAS B. PATIL	Male	50		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
164	260019	MR. DHARMA K. BHOIR	Male	52		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
165	250296	MR. DATTATRAY K. KALUNGE	Male	28		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	
166	250290	MR. UNKAR BHRIKAWAR	Male	26		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	
167	210132	MR. PANKAJKUMAR JHA	Male	26		--	--	Mechanical		23-02-2018	Fit	Not Applicable	Not Applicable	
168	250081	MR. DILIP A. KANKAR	Male	43		--	--	Production		23-02-2018	Fit	Not Applicable	Not Applicable	

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 27-02-2018 To 27-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
169	240022	MR. VIJAY KASAR	Male	52		--	--	Q.C.		27-02-2018	Fit	Not Applicable	Not Applicable	
170	250612	MR. RUPAK KARNIK	Male	32		--	--	Engg. Stores		27-02-2018	Fit	Not Applicable	Not Applicable	
171	213007	MR. SANDEEP S. KULKARNI	Male	48		--	--	Mechanical		27-02-2018	Fit	Not Applicable	Not Applicable	
172	126014	MR. LAHU S. NIGTIKAR	Male	44		--	--	Instrument		27-02-2018	Fit	Not Applicable	Not Applicable	
173	210080	MR. PRP PHANINDRA CHOLUHARY	Male	30		--	--	Mechanical		27-02-2018	Fit	Not Applicable	Not Applicable	
174	250216	MR. SOMNATH MAHAJAN	Male	26		--	--	Production		27-02-2018	Fit	Not Applicable	Not Applicable	
175	240001	MR. PRAKASH B. GILANGIRHAN	Male	52		--	--	Q.C.		27-02-2018	Fit	Not Applicable	Not Applicable	
176	240003	MR. M. M. SINALKAR	Male	50		--	--	Q.C.		27-02-2018	Fit	Not Applicable	Not Applicable	
177	250033	MR. S. K. KORGONKAR	Male	42		--	--	Production		27-02-2018	Fit	Not Applicable	Not Applicable	
178	126015	MR. MADHUKAR K. NIGLIKAR	Male	33		--	--	Mechanical		27-02-2018	Fit	Not Applicable	Not Applicable	
179	210009	MR. C. K. CHAVAN	Male	52		--	--	Mechanical		27-02-2018	Fit	Not Applicable	Not Applicable	
180	210014	MR. ARJUN KUMAR JHA	Male	53		--	--	Mechanical		27-02-2018	Fit	Not Applicable	Not Applicable	
181	250035	MR. ANAND KUNAR TIWARI	Male	47		--	--	Ware house		27-02-2018	Fit	Not Applicable	Not Applicable	
182	170007	MR. SANJAM B. MORE	Male	51		--	--	Ware house		27-02-2018	Fit	Not Applicable	Not Applicable	
183	250061	MR. M. S. WAYANGANKAR	Male	46		--	--	Production		27-02-2018	Fit	Not Applicable	Not Applicable	
184	250029	MR. BHASKAR S. KOPARKAR	Male	50		--	--	Production		27-02-2018	Fit	Not Applicable	Not Applicable	
185	250045	MR. NITEN R. DAVE	Male	42		--	--	Instrument		27-02-2018	Fit	Not Applicable	Not Applicable	

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 27-02-2018 To 27-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	Sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
186	210122	MR. PRASHANT MUNDE	Male	57		--	--	Mechanical		27-02-2018 Fit	Not Applicable	Not Applicable		
187	250040	MR. GIRISH A. CHAVAN	Male	49		--	--	Production		27-02-2018 Fit	Not Applicable	Not Applicable		
188	230006	MR. NAYAN K. PATADE	Male	52		--	--	Personnel		27-02-2018 Fit	Not Applicable	Not Applicable		
189	120011	MR. SHANKAR LAL SHARMA	Male	31		--	--	Accounts		28-02-2018 Fit	Not Applicable	Not Applicable		
190	260028	MR. JANU P. PATIL	Male	45		--	--	Instrument		28-02-2018 Fit	Not Applicable	Not Applicable		
191	230043	MR. MAJESH C. BAGUL	Male	45		--	--	Instrument		28-02-2018 Fit	Not Applicable	Not Applicable		
192	210015	MR. RAJESH RAJE	Male	45		--	--	Instrument		28-02-2018 Fit	Not Applicable	Not Applicable		
193	124001	MR. R. H. MUDGAL	Male	66		--	--	Q.C.		28-02-2018 Fit	Not Applicable	Not Applicable		
194	250320	MR. SUNIL U. PATIL	Male	24		--	--	Production		28-02-2018 Fit	Not Applicable	Not Applicable		
195	240024	MR. ATUL S. MANWANDI	Male	52		--	--	Q.C.		28-02-2018 Fit	Not Applicable	Not Applicable		
196	250211	MR. SOYMON THOMAS P.	Male	47		--	--	Production		28-02-2018 Fit	Not Applicable	Not Applicable		
197	250016	MR. SINDU. DESHMUKH	Male	39		--	--	Production		28-02-2018 Fit	Not Applicable	Not Applicable		
198	130009	MR. VIKAS BHAGATKAR	Male	53		--	--	Personnel		28-02-2018 Fit	Not Applicable	Not Applicable		
199	250028	MR. NITIN DESHMUKH	Male	54		--	--	Production		28-02-2018 Fit	Not Applicable	Not Applicable		
200	220003	MR. RAQHUNATH REDDY	Male	30		--	--	Electrical		28-02-2018 Fit	Not Applicable	Not Applicable		
201	180002	MR. K. S. PATIL	Male	51		--	--	Customs		28-02-2018 Fit	Not Applicable	Not Applicable		
202	190014	MR. NILESH S. PANDE	Male	42		--	--	Safety		28-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 27-03-2018 To 27-03-2019

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

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

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Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
203	250022	MR. Y. Y. PAWAR	Male	50		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
204	125101	MR. PRADIP VAIDYA	Male	62		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
205	170014	MR. GABAR SINGH PANWAR	Male	40		--	--	Raw material		27-03-2018 Fit	Not Applicable	Not Applicable	--	
206	124002	MR. ARVIND G. DESHMUKH	Male	49		--	--	Q.C.		27-03-2018 Fit	Not Applicable	Not Applicable	--	
207	260038	MR. MAHADEO KULE	Male	58		--	--	Mechanical		27-03-2018 Fit	Not Applicable	Not Applicable	--	
208	125139	MR. AKSHAY HUARE	Male	25		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
209	125049	MR. B. D. RASKAR	Male	47		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
210	210136	MR. ANIKET A. PATIL	Male	30		--	--	Medical		27-03-2018 Fit	Not Applicable	Not Applicable	--	
211	125135	MR. VIVEK B. SHINDE	Male	28		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
212	126022	MR. EKNATH P. JALE	Male	45		--	--	Electrical		27-03-2018 Fit	Not Applicable	Not Applicable	--	
213	230052	MR. MILIND G. PATIL	Male	44		--	--	Instrument		27-03-2018 Fit	Not Applicable	Not Applicable	--	
214	250334	MR. GAURAV S. CHIKHALE	Male	27		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
215	230277	MR. PUSHPRAJ CHAUDHARI	Male	34		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
216	250291	MR. VINOD KETKAR	Male	58		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
217	250283	MR. ASHOK P. KUSU	Male	47		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable	--	
218	260349	MR. BABURAO A. PATIL	Male	48		--	--	Production Lab		27-03-2018 Fit	Not Applicable	Not Applicable	--	
219	210013	MR. ANFOK GHULAP	Male	57		--	--	Stores		27-03-2018 Fit	Not Applicable	Not Applicable	--	

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 27-03-2018 To 27-03-2019

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

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Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
220	250326	MR. RAHUL B. MORE	Male	26		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
221	260023	MR. SHRIKRUSHNA S. NIKHUKAR	Male	31		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
222	--	MR. KIRAN P. KAMBLE	Male	22		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
223	--	MR. PRASAD V. AVADAN	Male	22		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
224	120008	MR. S. N. MAHESHWARI	Male	61		--	--	Accounts		27-03-2018 Fit	Not Applicable	Not Applicable		
225	250018	MR. RAJESH T. KATWE	Male	49		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
226	110016	MR. M. K. JINANI	Male	66		--	--	Commercial		27-03-2018 Fit	Not Applicable	Not Applicable		
227	230080	MR. SRINIVAS BANDARI	Male	54		--	--	Electrical		27-03-2018 Fit	Not Applicable	Not Applicable		
228	126024	MR. VAMAN P. DHLMAL	Male	49		--	--	Mechanical		27-03-2018 Fit	Not Applicable	Not Applicable		
229	180003	MR. S. N. PATHAK	Male	59		--	--	Customs		27-03-2018 Fit	Not Applicable	Not Applicable		
230	250328	MR. MOHIT D. CHOUGALE	Male	23		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
231	250337	MR. UDAY S. HANDE	Male	23		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
232	125019	MR. P. S. GHEGADMAL	Male	56		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
233	125017	MR. HITENDRA M. PADALKAR	Male	45		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
234	260045	MR. ANANTA N. NIKHUKAR	Male	52		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
235	125063	MR. VYANKATESH M. KADAM	Male	44		--	--	Production		27-03-2018 Fit	Not Applicable	Not Applicable		
236	125079	MR. VENKATRAJ NAM	Male			--	--			27-03-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 27-03-2018 To 27-03-2019

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

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Sr. No.	F.C. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Dye produced	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
237	250063	MR. AMIT A. GHARAT	Male	43		—	—	Production		27-03-2018 Fit	Not Applicable	Not Applicable	—	
238	125090	MR. SANTOSH G. RANE	Male	42		—	—	Production		27-03-2018 Fit	Not Applicable	Not Applicable	—	
239	251103	MR. AKSHAY DONGRE	Male	27		—	—	Production		27-03-2018 Fit	Not Applicable	Not Applicable	—	
240	125162	MR. SANTOSH P. PATIL	Male	48		—	—	Production		27-03-2018 Fit	Not Applicable	Not Applicable	—	
241	125141	MR. VISHAL PATIL	Male	25		—	—	Production		27-03-2018 Fit	Not Applicable	Not Applicable	—	
242	220113	MR. S. A. KAHANI	Male	48		—	—	Electrical		27-03-2018 Fit	Not Applicable	Not Applicable	—	

(Signature)

कारखाने अधिनियम १९४८ च्या कलम १० (२) प्रमाणे
 रायगड जिल्ह्याकरीता दि.१०/१०/१६ पासून दि.२१/१०/१८ पर्यंत
 अधिकृत प्रमाणक सत्यचिकित्सक
 क्र. ACS25-27PW/2011

MED - IND Concepts

HEALTH CARE SERVICES

HEALTH REGISTER

Proprietor

Dr. Pratibha S. Wankhade.

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

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
1		MR. SURYAKANT GAWADE	Male	52		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
2		MR. BRANNIDAS KULKARNI	Male	41		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
3		MR. SANJAY YELVE	Male	42		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
4		MR. NAMDEO THOMBRE	Male	45		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
5		MR. HANUMANT S. KEDAR	Male	38		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
6		MR. LALASA S. JADHAV	Male	39		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
7		MR. SOMNATH P. SHINDE	Male	35		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
8		MR. SHREEKAM TIWARI	Male	23		--	--	Security		23-02-2018 Fit	Not Applicable	Not Applicable		
9		MR. BHAIASA S. CHOUGLE	Male	46		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
10		MR. ANNASO P. WAGHMOTHE	Male	39		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
11		MR. PRAKASH SAKPAL	Male	46		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
12		MR. BABURAO MALI	Male	47		--	--	Insulation		23-02-2018 Fit	Not Applicable	Not Applicable		
13		MR. KARAMCHAND SINGHI	Male	50		--	--	Insulation		23-02-2018 Fit	Not Applicable	Not Applicable		
14		MR. ASHOK P. WAGHMOTHE	Male	45		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
15		MR. BALBHIM SOLANKAR	Male	38		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
16		MR. AKASH Y. SOLANKAR	Male	22		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
17		MR. RAJU C. PATIL	Male	30		--	--	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade

Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
18		MR. KAKA SALUNKHE	Male	51		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
19		MR. SACHIN KHANDKAR	Male	25		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
20		MR. BHAKTASHEB B. GOKUL	Male	21		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
21		MR. ARJUN B. MORE	Male	34		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
22		MR. AJIT S. KALE	Male	32		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
23		MR. VILAS R. PAWAR	Male	37		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
24		MR. BALAKRISHNA M. DORGE	Male	38		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
25		MR. RUPIDAS K. CHORMALE	Male	48		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
26		MR. ASHOK CHOKIJE	Male	35		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
27		MR. LAXMAN K. BELOSE	Male	36		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
28		MR. SANDIPA. GAIKWAD	Male	36		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
29		MR. RAMDAS G. PATIL	Male	45		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
30		MR. MAHENDRA PATIL	Male	35		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
31		MR. LALAN DORGE	Male	34		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
32		MR. BAPURAO VIRKAR	Male	35		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
33		MR. DATTATRAY S. SATPUTE	Male	23		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		
34		MR. BAPURAO M. DORGE	Male	43		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
35		MR. SAKHARAM B. SHEDGE	Male	50		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
36		MR. NILESH GONDHALI	Male	31		—	—	PAC		23-02-2018 Fit	Not Applicable	Not Applicable	—	
37		MR. RAJARAM BANGAN	Male	39		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
38		MR. APPA K. DORGE	Male	44		—	—	Loading		21-02-2018 Fit	Not Applicable	Not Applicable	—	
39		MR. SANJAY METEARI	Male	36		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
40		MR. SHIVAPPA A. WAKSHE	Male	22		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
41		MR. SANJAY D. GORAD	Male	30		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
42		MR. SATTUR. MICHHE	Male	31		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
43		MR. DEEPAK PATIL	Male	36		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable	—	
44		MR. CILANDRAKANT S. CHORMALE	Male	52		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
45		MR. SADASHIV DE. VADKAR	Male	39		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
46		MR. HAPUD NITVE	Male	36		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
47		MR. TANAJI YAMGAR	Male	54		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
48		MR. SHANTALAL GALANDE	Male	30		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
49		MR. DALAJA SOLANKAR	Male	26		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
50		MR. AGAIKAR B. KOLEKAR	Male	40		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	
51		MR. BAPIRAO B. GHILLE	Male	43		—	—	Loading		23-02-2018 Fit	Not Applicable	Not Applicable	—	

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
52		MR. SUNIL S. SAATPUTE	Male	28		--	--	Bagging		23-02-2018	Fit	Not Applicable	Not Applicable	
53		MR. SHREKANTH PATIL	Male	37		--	--	Ware house		23-02-2018	Fit	Not Applicable	Not Applicable	
54		MR. V. K. GHADGE	Male	53		--	--	Security		23-02-2018	Fit	Not Applicable	Not Applicable	
55		MR. SHIVAJI MANE	Male	23		--	--	Bagging		23-02-2018	Fit	Not Applicable	Not Applicable	
56		MR. UTTAM D. LAWATE	Male	27		--	--	Bagging		23-02-2018	Fit	Not Applicable	Not Applicable	
57		MR. DALARAM J. PATIL	Male	47		--	--	House keeping		23-02-2018	Fit	Not Applicable	Not Applicable	
58		MR. KRISHNA DHAUMAL	Male	36		--	--	House keeping		23-02-2018	Fit	Not Applicable	Not Applicable	
59		MR. SAGAR JITEKAR	Male	25		--	--	ETP		23-02-2018	Fit	Not Applicable	Not Applicable	
60		MR. VICKY PATIL	Male	25		--	--	ETP		23-02-2018	Fit	Not Applicable	Not Applicable	
61		MR. DADASA KADAM	Male	41		--	--	Ware house		23-02-2018	Fit	Not Applicable	Not Applicable	
62		MR. MANOJ SHINDE	Male	36		--	--	Loading		23-02-2018	Fit	Not Applicable	Not Applicable	
63		MR. SUNIL RAJE	Male	38		--	--	Ware house		23-02-2018	Fit	Not Applicable	Not Applicable	
64		MR. DATTATRAY G. PISAL	Male	27		--	--	Bagging		23-02-2018	Fit	Not Applicable	Not Applicable	
65		MR. HANSHIMAN PAWAR	Male	39		--	--	Bagging		23-02-2018	Fit	Not Applicable	Not Applicable	
66		MR. SAJJIN PATIL	Male	30		--	--	Bagging		23-02-2018	Fit	Not Applicable	Not Applicable	
67		MR. RAMESH G. CITAUHAN	Male	53		--	--	Driver		23-02-2018	Fit	Not Applicable	Not Applicable	
68		MR. MANGESH DAHAT	Male	35		--	--	Driver		23-02-2018	Fit	Not Applicable	Not Applicable	

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or Bye product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
69		MR. HITESH SHARMA	Male	33		—	—	Driver		23-02-2018 Fit	Not Applicable	Not Applicable		
70		MR. LAXMAN BANGAR	Male	46		—	—	Driver		23-02-2018 Fit	Not Applicable	Not Applicable		
71		MR. BAKIRAO KATHE	Male	34		—	—	PAC		23-02-2018 Fit	Not Applicable	Not Applicable		
72		MR. LAKHO PATIL	Male	49		—	—	Civil		23-02-2018 Fit	Not Applicable	Not Applicable		
73		MR. RAMESH MOKAL	Male	41		—	—	Insulation		23-02-2018 Fit	Not Applicable	Not Applicable		
74		MR. PRABHAT RANJAN	Male	27		—	—	Security		23-02-2018 Fit	Not Applicable	Not Applicable		
75		MR. PRAMOD JITEKAR	Male	27		—	—	ETP		23-02-2018 Fit	Not Applicable	Not Applicable		
76		MR. SHAKTI JADHAV	Male	26		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
77		MR. RAHUL KUMAR	Male	21		—	—	Security		23-02-2018 Fit	Not Applicable	Not Applicable		
78		MR. VIJAY P. SHINDE	Male	33		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
79		MR. NITIN G. MHATRE	Male	45		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
80		MR. KUNAL PATIL	Male	30		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
81		MR. DHANAJI V. ANILSH	Male	25		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
82		MR. SAMADHAN PATIL	Male	23		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
83		MR. DEEPAK A. MISAL	Male	26		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
84		MR. VASUDEO C. MHATRE	Male	32		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
85		MR. SHRIDHAR K. PAWASHE	Male	42		—	—	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 23-02-2018 To 23-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
86		MR. ARVIND G. PATIL	Male	37		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
87		MR. MOHAN KUMAR JHA	Male	38		--	--	Sorting		23-02-2018 Fit	Not Applicable	Not Applicable		
88		MR. SAHIN V. NERULKAR	Male	38		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
89		MR. VITHAL K. PATIL	Male	32		--	--	Bagging		23-02-2018 Fit	Not Applicable	Not Applicable		
90		MR. GURUNATH PATIL	Male	39		--	--	PAC		27-02-2018 Fit	Not Applicable	Not Applicable		
91		MR. SHYAM THAKUR	Male	43		--	--	Ware house - Forklift		27-02-2018 Fit	Not Applicable	Not Applicable		
92		MR. SANDESH P. BHAGAT	Male	32		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
93		MR. KAILASH PATIL	Male	43		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
94		MR. HARISHCHANDRA BHUNDRE	Male	40		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
95		MR. SHANUWAR SANGADE	Male	43		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
96		MR. BALKRISHNA I. PATIL	Male	35		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
97		MR. DHANAJI ULVEKAR	Male	45		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
98		MR. VINOD MALLUSARE	Male	47		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
99		MR. TANAJI SHENDRE	Male	41		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
100		MR. SANJAY J. PATIL	Male	36		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

HEALTH REGISTER

From :- 27-02-2018 To 27-02-2019

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

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

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Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By-product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
101		MR. RAJENDRA UGALE	Male	37		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
102		MR. SHANKAR A. PAWAR	Male	31		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
103		MR. PRASHANT M. PATIL	Male	57		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
104		MR. MOHAN K. BANGAR	Male	40		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
105		MR. ANANDA B. DHERE	Male	28		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
106		MR. SACHIN J. KHANDEKAR	Male	23		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
107		MR. MANUHA R. WAKSHE	Male	39		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
108		MR. SANTOSH J. SAWANT	Male	38		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
109		MR. APPA M. MUDHE	Male	25		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
110		MR. GAJANAN HUMNE	Male	45		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
111		MR. ISHWAR M. ANUSE	Male	35		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
112		MR. ARTIN MAHATO	Male	43		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
113		MR. SUNIL RASKAR	Male	28		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
114		MR. SANJAY BANDEKAR	Male	47		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
115		MR. RAMAKANT KUSHWAHA	Male	45		--	--	Ware house		27-02-2018 Fit	Not Applicable	Not Applicable		
116		MR. VIJAY KLMAR M. SHINGADE	Male	38		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		
117		MR. ARJUN D. KHARAI	Male	28		--	--	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable		

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. S8000.

FORM NO. 7

HEALTH REGISTER

From :- 27-02-2018 To 27-02-2019

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
118		MR. SATISH P. DORGE	Male	24		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
119		MR. SHIVAJI S. MANT	Male	40		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
120		MR. PRAVIN H. KADAM	Male	40		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
121		MR. SUSHIL L. AVTE	Male	47		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
122		MR. DEEPAK K. SHELAR	Male	46		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
123		MR. SANJAY MAHARNOOR	Male	21		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
124		MR. PAPPIN BANGAR	Male	19		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
125		MR. SHAILASH M. DIJUMAL	Male	33		—	—	Bagging		27-02-2018 Fit	Not Applicable	Not Applicable	—	
126		MR. GOPAL THAKUR	Male	41		—	—	Ware house		28-02-2018 Fit	Not Applicable	Not Applicable	—	
127		MR. RAMKUNAL SINGH	Male	17		—	—	Ware house		28-02-2018 Fit	Not Applicable	Not Applicable	—	
128		MR. PRADIP SALUNKHE	Male	52		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable	—	
129		MR. MANANKTIMAN SENOH	Male	40		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable	—	
130		MR. RAMESH PHADKE	Male	24		—	—	Stores		28-02-2018 Fit	Not Applicable	Not Applicable	—	
131		MR. MOHAN PHADKE	Male	42		—	—	Driver		28-02-2018 Fit	Not Applicable	Not Applicable	—	
132		MR. SAROJ KUMAR MISHRA	Male	28		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable	—	
133		MR. KANITAJYA KUMAR	Male	43		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable	—	
134		MR. PRAJLAD RAJE	Male	26		—	—	Stores		28-02-2018 Fit	Not Applicable	Not Applicable	—	

Name of Certifying Surgeon

Dr. (Mrs.) Pratibha S. Wankhade Regd. No. 58000.

FORM NO. 7

From :- 28-02-2018 To 28-02-2019

HEALTH REGISTER

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

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

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

Sr. No.	EC. No.	Name of Worker	sex	Age (last birth day)	Date of employment of present work	Date of leaving or transfer to other work	Reason for leaving, transfer or discharge	Nature of job or occupation	Raw material or By product handled	Date of medical examination by Certifying Surgeon and Result of Medical Examination	If suspended from work state period of suspension with detailed	Certified fit to resume duty on with Signature of certifying Surgeon	If certificate of unfitness or suspension issued to worker	Signature with Certifying Surgeon
135		MR. NARAYANTRIPATHI	Male	31		—	—	Cannan		28-02-2018 Fit	Not Applicable	Not Applicable		
136		MR. RAJU KUMAR CHOUBEY	Male	30		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable		
137		MR. DILIP	Male	36		—	—	Cannan		28-02-2018 Fit	Not Applicable	Not Applicable		
138		MR. ARUN KUMAR SINGH	Male	27		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable		
139		MR. SAGAR KATHE	Male	28		—	—	Stores		28-02-2018 Fit	Not Applicable	Not Applicable		
140		MR. MADANKUMAR SINGH	Male	47		—	—	Security		28-02-2018 Fit	Not Applicable	Not Applicable		
141		MR. RAMAN. BALKAR	Male	48		—	—	Civil		28-02-2018 Fit	Not Applicable	Not Applicable		
142		MR. DEVANAND KATHE	Male	26		—	—	Garden		28-02-2018 Fit	Not Applicable	Not Applicable		
143		MR. ROHIDAS PATIL	Male	48		—	—	House keeping		27-03-2018 Fit	Not Applicable	Not Applicable		
144		MR. NARAYAN KUTTY	Male	62		—	—	Commercial		27-03-2018 Fit	Not Applicable	Not Applicable		
145		MR. DEVANAND MHATRE	Male	30		—	—	Bagging		27-03-2018 Fit	Not Applicable	Not Applicable		

कायस्थाने अधिनियम १९४८ च्या कलम १० (२) प्रमाणे
 रायगड जिल्ह्याकरीता दि. १२/१२/१६ पासून दि. १२/१२/१८ पर्यंत
 अधिकृत प्रमाणक शाल्यचिकीत्सक
 क्र. ACS25-27PW/2011

Pratibha S. Wankhade

PUBLIC ANNOUNCEMENT

The proposed debottlenecking and resultant expansion of manufacturing capacity at I. G. Petrochemicals Ltd's plant at T2 MIDC, Talaja, 410208, Dist. Raigad, has been accorded environmental clearance by The Ministry of Environment & Forests, Govt. of India. Copies of the clearance are available with Maharashtra Pollution Control Board and on ministry web site <http://envfor.nic.in>

नवशक्ति, मुंबई, शनिवार ३० जून, २००७

जाहीर सूचना

भारत सरकारच्या वन व पर्यावरण
मंत्रालयाने आय. जी. पेट्रोकेमिकल्स
लि. टी. २, एम. आय. डी. सी.
ता. तालाजा - ४१०२०८ नि. रायगड
जिल्ह्यास वारखेच्या निमित्त
यंत्रसुधारणा व त्यामुळे होणाऱ्या
उत्पादन वाढीस मान्यता दिली आहे.
मान्यताचे महाराष्ट्र इंदुधन नियंत्रण
मंडळ व वन / पर्यावरण मंत्रालयाचे
वेबसाईट - <http://envfor.nic.in>
वरील उपलब्ध आहे.

PUBLIC ANNOUNCEMENT

The Proposed Expansion of Petrochemicals and synthetic organic chemicals manufacturing facility at Plot No. T-2, Talaja Industrial Area, MIDC Talaja, 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/online/researchmodl.aspx?pid=ECAmendgrnt>

I G Petrochemicals Ltd.
Authorized Signatory

८

नवशक्ति

मुंबई, शनिवार, ३ मार्च २०१८

जाहीर नोटीस

सर्व संबंधितांना माहिती देण्यात येते की, प्लॉट क्रमांक टी-२, तळोजा एम.आय.डी.सी., जिल्हा रायगड, महाराष्ट्र येथील आय. जी. पेट्रोकेमिकल्स लि. द्वारे प्रस्तावित प्रकल्प, कृत्रिम सैद्ध्य रासायनिक उत्पादन सुविधेच्या संबंधित असून या प्रकल्पाला पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार (MoEF & CC) समितीने संमती सदर्थ अक्षर क्र. J-11011/73/2016-IA-II (I), दिनांक २० फेब्रुवारी २०१८ प्रमाणे दिली आहे. सद्य पर्यावरणीय समिती पत्राची प्रत महाराष्ट्र प्रदूषण निबंधन मंडळाकडे तसेच मंत्रालयाच्या पर्यावरणीय विभागाकडे <http://environmentclearance.nic.in/online/researchmodl.aspx?pid=ECAmendgrnt> या संकेत स्थळावर उपलब्ध आहे.

आय. जी. पेट्रोकेमिकल्स लि.
अधिकृत सहीधारक

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E).
Mumbai - 400 022

Consent order No :- Formate 1.0/ BO/CAC-Cell/ UAN No 30425/2nd CAC/ 1806000105
Date- 02/06/2018

To,
M/s I.G. Petrochemicals Ltd.
Plot No. T-1 & T-2, Talaja Industrial Area,
MIDC Talaja, Tal- Panvel,
Dist: Raigad-410208.

Subject: Renewal of Consent to Operate of Plot No T-2 with amalgamation of
Consents of Plot No T-1 & T-2 under RED category.
Ref : 1. Earlier Consent granted vide no. Formate 1.0/BO/CAC-Cell/EIC No NM-
5370-14/1st CAC/4700 dtd. 24.04.2015 valid upto-28.02.2018.
2. Earlier Consent granted vide no. Formate 1.0/BO/CAC-Cell/UAN No
10674/6th CAC/1704001234 dtd. 28.04.2017 valid upto-30.08.2021.
3. Your application approved in CAC meeting held on 05.05.2018.

Your application UAN No 30425
Dated: 18.07.2017.

For: Renewal of Consent to Operate of Plot No T-2 with amalgamation of
Consents of Plot No T-1 & T-2 under Section 26 of the Water (Prevention & Control of
Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of
Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous & Other
Wastes (M & TM) 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 is granted for a period from 28.02.2018 to 31.08.2021.
2. The actual capital investment of the industry is Rs.795.36 Crs. (As per C.A.
Certificate submitted by industry) [Existing CI (plot T-2) Rs 664.99 Crs+(plot T-1)
Rs 89.11 Crs+ Increase in CI Rs 41.26 Crs]
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1	Phthalic Anhydride	169110MT/A
2	Benzoic Acid	1000 MT/A
3	Power (Exported to Grid)	2.5 MW
4	Maleic Anhydride(MA)	6500 MT/A

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	670.00	As per Schedule -1	CETP
2.	Domestic effluent	16.00	As per Schedule -1	CETP

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler -3 Nos	1 (No.)	As per Schedule -II
2.	Process vents	3 (Nos.)	As per Schedule -II
3.	DG set	1 (No.)	As per Schedule -II
4.	HT oil Heater	2 (Nos.)	As per Schedule -II
5.	De-dusting vents-PA Plant	3 (Nos)	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biological Sludge from ETP	20 MT/M		Landfilling
2	Other debris like insulation, packaging materials etc	6 MT/M		CHWTSDF

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Still bottom from distillation	1.2	4055.80	MT/A	N.A	Use as fuel heater
2	Discarded container/barrels/liners	33.1	190	Nos/A	N.A	Washed and reuse
3	Discarded bags used for hazardous chemicals	33.1	8.7	MT/A	N.A	Washed and reuse
4	Chemical Sludge from water treatment	35.3	18.0	MT/A	N.A	Sent to CHWTSDF
5	Spent Carbon	36.2	23.7	MT/A	N.A	Sent to CHWTSDF
6	Ash from incineration of hazardous waste	37.2	9.5	MT/A	N.A	Sent to CHWTSDF
7	Spent catalyst and molecules sieve	1.6	80.0	MT/A	N.A	Sent to CHWTSDF
8	Used oil/spent Oil	5.1	35.0	MT/A	N.A	Sale CPCB/MPCB authorized reproprocessors
9	Discarded asbestos	15.2	43.0	MT/A	N.A	Sent to CHWTSDF
10	Organic Residue (from cleaning of wash/residue storage tanks)	1.4	36	MT/A	NA	Sent to CHWTSDF
11	E-waste(IT/Telcom, electrical, electronic etc)	-	600	Kg/M	NA	Authorized recycle

12	Biomedical Waste	1,2,3,4,6,7	12	Kg/M	NA	CBMWTSDf
13	Plastic waste	-	500	Kg/M	NA	Authorized recycle
14	Battery waste	-	100	Nos/M	NA	Sent Back to manufacture

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. The applicant shall install online continuous stack emission monitoring system and online effluent quality monitoring systems at the outlet of effluent treatment plant for measurement of consented parameters & to connect and upload the online emissions and effluent monitoring data at MPCB and CPCB server.
11. This consent is issued by overriding consent No BO/CAC-Cell/UAN No 10674/6 th CAC/1704001234 dtd. 28.04.2017 valid upto-30.08.2021
12. This consent is issued pursuant to the decision of the Consent Appraisal Committee held on 05.05.2018

For and on behalf of the
Maharashtra Pollution Control Board

(P K Mirashe)

Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD/TRN No.	Date	Drawn On
1	66,28,688/-	UBINH173 33450526	29.11.2017	Union Bank Of India

After requisite fees to grant this consent upto- 31.08.2021, the fees of Rs 9,86,168/- is remain balance with the Board and same shall be considered at the time further renewal in future.

Copy to:

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

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Combined Effluent Treatment Plant (ETP) with the design capacity of 709 CMD.

B] The Applicant shall operate the combined 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	Standards as per EP Act, 1986
		Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Total Dissolved Solids	2100
05	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
06	Suspended Solids	100
07	COD	250
08	Chloride	1000
09	Sulphate	600
10	TAN	50

C) The treated effluent shall be recycled to maximum extent and remaining treated effluent shall be disposed into CETP.

D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

- 2) 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/and extension or addition thereto.
- 3) 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.

- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I 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	3552.0
2.	Domestic purpose	18.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	655.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00.0
5.	Gardening	10.0

- 5) 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/ Environmental Clearance / CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

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

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Vent scrubber (3 nos)	Stack	50.0 (Each)	N.A	N.A	N.A	N.A
2	Boiler-3 Nos	Stack	55.0 (common)	F.O.	27 MT/D	4	900
3	Hot oil heater (2 Nos)	Stack	31.0 (Each)	FO + Distillation residue	FO- 4 MT/D + 7 MT/D	4	800
4	D.G.Set (2000 KVA)	Stack	15.0 (above the roof)	HSD	8.30 MT/D	1	166
5	De-dusting vents-PA Plant-3 Nos	Bag Filters	12.0 each	N.A	N.A	N.A	N.A

- 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.
- Standards for Emissions of VOC Pollutants:

Sr. No	Petrochemical process / compounds	Maximum emission limit (mg/Nm ³) dry basis.
1	MA, PA, Phenol	20
2	Ethyl, benzene (EB), Styrene, Toulene, Xylene, Aromatics, EG, PG	100
3	Non-methane HC (paraffin), Acetone, olefins	150

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

Particulate matter	Not to exceed	150 mg/Nm ³ .
SO ₂ Process	Not to exceed	50 ppm
NO _x	Not to exceed	50 ppm

- 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.
- 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).

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C2O	Rs. 15 Lakh	Within 15 days from the date of issue of consent	O & M of pollution control system	31.08.2021	31.12.2021

- The existing BG/BG's if submitted towards same purpose may be extended upto- 31.12.2021.

Schedule-IV

General Conditions:

- 1) 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.
- 2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) The firm shall submit to this office, the 30th day of September every year, the Environmental 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.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Wastes (M & TM) Rules 2016, which can be recycled
- 9) /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.
- 10) The industry should comply with the Hazardous & Other Wastes (M & TM) Rules 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 13) 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).
- 14) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 15) 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.

- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 17) 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.
- 18) 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 siting 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 MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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 be downloaded from MPCB official site).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.

28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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Maharashtra Pollution Control Board

I G PETROCHEMICALS LTD, TALOJA,			
CSR ACTIVITIES DURING THE FINANCIAL YEAR 2017-2018 & 2018-2019			
SR.NO	PARTICULARS	2017-18 (In Rs)	2018-19 (In Rs)
1	GOVERNEMENT INDUSTRIAL TRAINING INSTITUTE , PANVEL	25,000	
2	WATER RESERVOIR AT KOREGAON (MLA,SHRI SHASHIKANT SHINDE)		10,00,000
3	GARDENING WORK AT POLICE COMMISSIONER OFFICE, NAVI MUMBAI(K.D.PATIL)	4,72,670	
4	PARAM SHANTIDHAM VRIDHAASHRAM	3,30,000	
5	GATTI MARATHI YUVA PRATISHTAN (MLA,SHRI SHASHIKANT SHINDE)	5,00,000	
6	UTKARSH STAR MITRA MANDAL (SAY NO TO PLASTIC BAGS)	1,00,000	
7	SHIV VIDYA PROBODINI TRUST (FREE COACHING FOR UPSC CIVIL SERVICE)	10,00,000	
8	BOREWELL INSTALLATION & PIPE LINE WORKS AT 4 VILLAGES(AMBEGAON,KONDAPGAON, CHINCHWALIGAON & SIRAVALLIGAON)		6,80,000
9	SAMJK VIKAS MITRA MANDAL (LAPTOPS, MUSICAL INSTRUMENTS ETC)	21,03,526	38,48,000
10	SERVING RETIRED MILITARY PERSONNEL UNDER THE BENEVOLENT FUND	1,50,000	
11	TREE PLANTATION IN MIDC TALOJA (ASHIRWAD GARDENERS)	1,35,000	
12	BLIND ORGANISATION OF INDIA 1)	8,748	
	2)	21,000	
	TOTAL	48,45,944	55,28,000

ANNEXURE XVII

Activities Proposed under CER

Types of Proposed Social Development Activities	Budget in Rs. lakhs
Educational	
schools, colleges, facilities such as hostel, scholarship, educational aids, donations for infrastructure such as computers, laboratory equipment	50.0
Medical / Health	
Health and hygiene awareness camps, health check-up camps	30.0
Environmental activities	
Tree plantation , sapling distribution ,rain water harvesting in surrounding villages	50.0
Social sector	
Solar energy projects likes power supply for lighting,computers etc in schools and Virdhasharm	30.0
Total	160.0

Ambient Air Quality Monitoring Reports

Flaker Terrace

Parameter	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb	18-Mar	Limiting Standard
	25/10/17	22/11/17	25/12/17	02-02-18	22/02/18	20/03/18	
SO ₂	11.6	12.5	11.5	11.4	10.4	11.4	80
NO _X	14.1	14.3	13.6	14.7	14.2	14.5	80
PM ₁₀	56.2	56.8	55.2	52	56.4	56.6	100
PM _{2.5}	18.6	17.9	18.1	17	18.9	18.3	60
Ozone [O ₃]	ND	ND	ND	ND	ND	ND	180
CO	0.24	0.22	0.20	0.28	0.3	0.26	4

DM Plant

Parameter	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb	18-Mar	Limiting Standard
	25/10/17	22/11/17	25/12/17	02-02-18	22/02/18	20/03/18	
SO ₂	12.4	11.8	11.4	10.9	10.9	12.2	80
NO _X	13.5	13.7	12.9	14.7	14.5	15	80
PM ₁₀	54.8	55.3	54.7	60	59.2	59.1	100
PM _{2.5}	18.1	18.1	17.2	20.8	20.1	19.5	60
Ozone [O ₃]	ND	ND	ND	ND	ND	ND	180
CO	0.2	0.26	0.18	0.18	0.21	0.22	4

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Stack Emission Monitoring Reports
Boiler Stack Emission Monitoring -PA I (3-nos.)

Physical Data:

Stack Height (m)	55 m	55 m	55 m	55 m
Inside Diameter (m)	2.5 m	2.5 m	2.6 m	2.6 m
Stack Area (m²)	5.31 m ²	5.31 m ²	5.31 m ²	5.31 m ²
Flue Gas Temperature (°C)	136°C	138 °C	139°C	165°C
Velocity m/sec	3.76 m/sec	3.94 m/sec	3.11 m/sec	3.32m/sec
Flow m³/hr.	52369.42 Nm ³ /hr.	54609.43 m ³ /hr.	43014.71 m ³ /hr.	43151.81 m ³ /hr.
Fuel Used	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil
Fuel Quantity	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)

Date	Oct-17	Nov-17	Dec-17	Mar-18	Limiting Standards
	23/10/17	20/11/17	23/12/17	17/03/18	
TPM (mg/Nm³)	68.9	78.6	61.49	69.28	150
SO₂ (kg/day)	136.4	138.4	137.27	273.29	900
NO_x (ppm)	34	36	24	28	50

#Note: The boiler is used during initial production process hence analysis reports of stack emission is available for one month only

(*) Amount of SO₂ is calculated for 24 hours but the actual emission quantity is much less depending upon duration of operation.

ND - Not Detected

Monitoring & Analysis by Adit

Heater Stack Emission
Monitoring - PA I

Physical Data:

Stack Height (m)	31 m	31 m	31 m	31 m	31 m
Inside Diameter (m)	0.5 m	0.5 m	0.5 m	0.5 m	0.5 m
Stack Area (m²)	0.196 m ²	0.196 m ²	0.196 m ²	0.196 m ²	0.196 m ²
Flue Gas Temperature (°C)	203°C	198°C	185	188	194
Velocity m/sec	8.92 m/sec	8.21 m/sec	9.57	7.56	6.77
Flow m³/hr.	3940.33 Nm ³ /hr.	3665.19	4401.96	3452.62	3052.1
Fuel Used	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

Date	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb
	23/10/17	20/11/17	23/12/17	31/01/18	19/02/18
TPM (mg/Nm³)	97.2	102.32	92.22	50.74	146.3
SO₂ (kg/day)	112.3	124.1	57.46	87.94	82.43
NOx (ppm)	26	32	32	48	46
CO (%)	0.34	0.92	0.42	0.75	0.68
CO₂ (%)	13.2	13.3	13.6	13.6	13.8

Heater Stack Emission**Monitoring - PA II****Physical Data:**

Stack Height (m)	31 m	31 m	31 m	31	31
Inside Diameter (m)	0.6 m	0.6 m	0.6 m	0.6	0.6
Stack Area (m²)	0.2826 m ²	0.2826 m ²	0.2826 m ²	0.2826	0.2826
Flue Gas Temperature (°C)	192 °C	192	187	192	191

Velocity m/sec	6.12 m/sec	6.1	3.88	7.69	6.47
Flow m³/hr.	3906.14 Nm ³ /hr.	3977.11	1775.58	3481.78	2935.72
Fuel Used	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
Date	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb
	23/10/17	20/11/17	23/12/17	31/01/18	19/02/18
TPM (mg/Nm³)	96.4	96.42	48.92	131.78	136.8
SO₂ (kg/day)	124.8	136.2	66.82	80.26	66.82
NOx (ppm)	28	28	28	56	48
CO (%)	0.86	1.28	0.22	0.64	0.59
CO₂ (%)	13.1	13.4	13.8	13.8	13.9

Monitoring & Analysis by Adit

Scrubber Stack Emission

Monitoring - PAI

Physical Data:

Stack Height (m)	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)	1.7 m	1.7 m	1.7 m	2.0 m	2.0 m
Stack Area (m²)	2.269 m ²	2.269 m ²	2.269 m ²	3.14 m ²	3.14 m ²
Flue Gas Temperature (°C)	35 °C	35 °C	35 °C	35 °C	35 °C
Velocity m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec
Flow m³/hr.	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr
Date	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb
	23/10/17	20/11/17	23/12/17	31/01/18	19/02/18
Volatile Organic Acids (mg/Nm³) / TOC	62	62	58	64	62
SO₂ (ppm)	2.1	3.61	2.81	11.02	19.59
N.D. : Not Detected					

Scrubber Stack Emission**Monitoring - PA II****Physical Data:**

Stack Height (m)	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)	1.7 m	1.7 m	1.7 m	1.7 m	1.7 m
Stack Area (m ²)	2.269 m ²	2.269 m ²	2.269	2.269	2.269
Flue Gas Temperature (°C)	34 °C	34 oC	34 °C	34 oC	34 °C
Velocity m/sec	5.2 m/sec	5.2	5.2 m/sec	5.2	5.2 m/sec
Flow m3/hr.	58780.8 m ³ /hr	58780.8	58780.8 m ³ /hr	58780.8	58780.8 m ³ /hr

Date	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb
	23/10/17	20/11/17	23/12/17	31/01/18	19/02/18
Volatile Organic Acids (mg/Nm3) / TOC	60	64	60	62	64
SO ₂ (ppm)	3.62	5.12	4.52	13.47	24.49

Monitoring & Analysis by Adit**Scrubber Stack Emission****Monitoring - PA III****Physical Data:**

Stack Height (m)	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)	1.7 m	1.7 m	1.7 m	1.7 m	1.7 m
Stack Area (m ²)	2.269 m ²	2.269 m ²	2.269	2.269	2.269
Flue Gas Temperature (°C)	35 °C	35 oC	35 oC	35 oC	35 oC
Velocity m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec
Flow m3/hr.	58780.8 m ³ /hr	58780.8 m3/hr	58780.8 m3/hr	58780.8 m3/hr	58780.8 m3/hr

Date	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb
------	--------	--------	--------	--------	--------

	23/10/17	20/11/17	23/12/17	31/01/18	19/02/18
Volatile Organic Acids (mg/Nm3) / TOC	64	68	62	68	70
SO₂ (ppm)	11.6	12.6	11.8	19.59	29.39

Monitoring & Analysis by Adit

ya Environmental Services Pvt. Ltd.

Limiting Standards
150
900
50
--
--

31
 0.6
 0.2826
 152

4.98
2466.99
FO + Residue
4 MTPD + 7 MTPD

18-Mar	Limiitng Satndards
17/03/18	
143.24	150
36.27	900
46	50
0.38	--
13.5	--

ya Environmental Services Pvt. Ltd.

50 m
2.0 m
3.14 m²
35 °C
5.2 m/sec
58780.8 m³/hr

18-Mar	Limiitng Satndards
17/03/18	
64	100
12.64	50

50 m

1.7 m

2.269

34 °C

5.2 m/sec

58780.8 m³/hr

Mar-18	Limiitng Satndards
17/03/18	
60	100
17.43	50

ya Environmental Services Pvt. Ltd.

Limiitng Satndards

100
50

ya Environmental Services Pvt. Ltd.

WORK ROOM EMISSION MONITORING REPORT AS PER GSR No.820 (E)

Sr. No.	Parameter	Analysis Result						Limiting Standard
		Oct-17	Nov-17	Dec-17	Jan-18	18-Feb	18-Mar	
		Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	
						22/02/18	21/03/18	
1	VOC					ND		20 mg/Nm ³
2	CO					0.14		-- ppm
3	TPM (mg/m3)					0.63		20 mg/Nm ³

Ambient Noise Level Monitoring Report

Date	Oct-17		Nov-17		Dec-17		Jan-17		18-Feb		18-Mar	
	20/10/17		18/11/17		21/12/17		29/01/18		16/02/18		14/03/18	
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	63.6	59.4	65.2	60.5	62.2	61.8	64.5	58.2	64.9	60.9	64.2	57.3
L2	63.2	58.1	66.4	62.4	64.7	58.9	60.3	57.9	65.8	63.2	59.8	55.8
L3	61.4	56.8	68.2	63.1	60.5	58.2	59.2	56.4	63.2	59.8	58	56
L4	68.6	64	62.3	61.2	62.8	60.1	63.4	58.9	65.1	63.3	62.8	58.5
L5	70.9	69.3	68.4	64.8	70.4	68.9	69.8	68.3	69.8	65.7	72.7	68.9
L6	72.8	69.2	69.1	65.9	66.7	62.8	67.2	65.1	70.1	65.3	67.5	65
L7	71.6	68.4	70.3	66.4	68.9	67.1	69.4	66.2	64.3	65.1	68.9	65.5
Standard	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)
Within Plant :												
L8	68.2	66.2	68.9	64.2	67.6	65.9	74.3	68.2	78.9	76	74.8	73.5
L9	59.2	59.5	65.8	62.3	62.3	60.1	62.7	59.7	75.9	73.8	57.1	54.6
L10	73.5	70.3	67.2	61.4	67.5	65.9	81.5	79	78.3	76.4	88.4	84.3
L11	67.6	67.6	64.5	63.8	68.8	67.5	74.5	71.4	76.1	73.1	68.7	62.5
L12	67.5	61.8	66.2	62.8	67.2	65.6	66.3	62.4	80.7	75	67.2	60.4
L13	63.6	60.8	68.1	60.8	63.7	60.5	65.2	59.2	85.3	80.7	64.9	60.8
Standard	90 (#)		90 (#)		90 (#)		90 (#)		90 (#)		90 (#)	

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

(#) As specified by MOEF

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Details of Location

Location Code	Location Name
Location 1	: Southern Boundary Near Main Gate
Location 2	: Southern Boundary Opp. Canteen
Location 3	: Western Boundary Near loading / unloading area
Location 4	: Western Boundary Near Tank Farm
Location 5	: Eastern Boundary Near Cooling Tower
Location 6	: Eastern Boundary Near Boiler House
Location 7	: Northern Boundary Near ETP
Location 8	: Opp. Control Room
Location 9	: Opp. Weigh Bridge
Location 10	: Road Opp PA II Plant
Location 11	: Road Opp DM plant
Location 12	: Road Opp. TG Bldg
Location 13	: Road Opp. Transformer

Noise Level Survey Report

Location		Month			
		Oct-17	Nov-17	Dec-17	Jan-17
	Date	20/10/17	18/11/17	21/12/17	29/01/18
I	Laboratory				
a)	Chemical Laboratory (middle table)	61.4	60.9	60.8	60.8
b)	Chemical Laboratory (last table)	63.2	63.2	62.9	62.9
c)	Changing room	62.8	63.4	65.3	65.3
d)	Officer cabin	60.1	60.1	58.5	58.5
e)	Instrumental Laboratories	56.5	56.2	57.3	57.3
f)	Micro Laboratories	0.0	0.0	0.0	0.0
II	Operator cabin (Near PA II)				
a)	On table	61.6	63.7	66.7	66.7
III	Store room				
a)	Near entrance	62.8	65	69.9	69.9
b)	Cabin for store supervisor	61.4	61.4	65.2	65.2
IV	Engineering work shop				
a)	Near entrance	63.8	62.4	70.1	70.1
b)	Inside cabin on table	63.2	63.5	65.8	65.8
V	PA - I plant				
a)	Near o-Xylene preheaters	65.7	70.2	68.7	68.7
VI	Turbine room PA - I plant				
a)	Near turbine	69.8	77.2	89.2	89.2
b)	Compressor	78.6	78.9	87.8	87.8
VII	Control Room				
a)	Door open	68.2	65.7	67.5	66
b)	Door closed	65.8	64	64.2	59.3
VII	Utilities				
a)	Boiler room (Door open)	64.6	62.8	66.3	62.1
b)	(Door closed)	61.8	61.2	59.8	56.8
IX	PA - II turbine room				
a)	Near air compressor	67.2	62.4	68.2	79.4
X	PA - II plant				
a)	Near o-Xylene preheaters	68.2	70.2	69.5	83.7
XI	PA plant flaker packing				
a)	Flaker panel Room (Door opened)	61.9	64.2	65.8	71.9
b)	Flaker panel Room (Door closed)	62.8	62.7	62.7	62.5
c)	Flaker Room	66.7	64.6	66.3	67.8
d)	Warehouse	65.6	65.1	65.8	64
XII	Operator cabin (Near PA III)				
a)	Near air boiler	66.2	67.9	70.6	75.6
b)	Near turbine	68.4	65.8	71.8	75.9
c)	Near PA III	64.7	64.5	68.8	78
Limit as per Factory Act		90			

18-Feb	18-Mar
16/02/18	14/03/18
59.1	58.2
58.3	57.9
65.8	56.5
61.4	56.2
60.3	58.9
0.0	0.0
63	62.5
63.9	59.7
67.1	57
68.1	60.3
70.3	58.8
68.3	82.6
70.4	80.4
73.9	83.2
69.1	62.5
64.3	58.7
74.7	64.7
71.6	57.8
74.8	85.9
64.3	86.9
67.3	65.3
63.8	59.6
64.9	66.1
68.3	62.5
67.4	68.4
65.8	70.2
63.3	59.4

Drinking Water Analysis Report

Sr. No.	Location	18-Feb			Mar-18		
		19/02/2018			16/03/2018		
		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	<u>potable</u>	Absent	Absent	<u>potable</u>
2	Canteen-2 (Contract Canteen)	Absent	Absent	<u>potable</u>	Present	Absent	<u>not potable</u>
3	PA Control room	Absent	Absent	<u>potable</u>	-	-	-
4	Workshop	Absent	Absent	<u>potable</u>	-	-	-
5	Instrumentation	Absent	Absent	<u>potable</u>	-	-	-
6	Admin	Absent	Absent	<u>potable</u>	-	-	-
7	LAB	Absent	Absent	<u>potable</u>	-	-	-
8	MA Control Room	Absent	Absent	<u>potable</u>	-	-	-
9	PA Bagging Section	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>

Location	18-Feb	
	22/02/2018	
	Ortho xylene	Phthalic Anhydride
<u>Phthalic Anhydride-I</u>		
Near Ortho xylene pre heater	0.11	ND
<u>Phthalic Anhydride II</u>		
i) Near Ortho xylene pre heater	ND	ND
<u>Phthalic Anhydride Bagging Area</u>		
i) Flaker Area ABC	0	0.08
ii) Flaker Area D & E	0	ND
<u>Phthalic Anhydride-III</u>		
i) Near Ortho xylene preheater.		
Limiting Standards		
NIOSH		
TLV(TWA)	100	1
STEL	150	--
ACGIH		
TLV(TWA)	100	1
STEL	150	--

Work Room Air Monitoring Reports			
Location	2018 - February		
	22/02/18		
	SO ² ppm	NO _x ppm	SPM mg/m ³
Phthalic Anhydride Ware House	0.012	0.014	0.185
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--

STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Effluent Analysis Reports

Date	Oct-17	Nov-17	Dec-17	Jan-18	18-Feb	18-Mar
	27/10/17	22/11/17	26/12/17	02-05-18	24/02/18	22/03/18
pH	7.69	7.28	7.18	7.09	7.36	7.42
Suspended Solids	34	46	32	56	52	44
Biochemical Oxygen Demand	12	22	12	30	16	56
Chemical Oxygen Demand	40	60	40	100	59	158
Oil & Grease	ND	ND	ND	ND	ND	ND
Ammonical Nitrogen as N	1.12	2.8	1.12	4.2	ND	ND
Vanadium as V	ND	ND	ND	ND	ND	ND
Arsenic as As	ND	ND	ND	ND	ND	ND
Mercury as Hg	ND	ND	ND	ND	ND	ND
Lead as Pb	ND	ND	ND	ND	ND	ND
Cadmium as Cd	ND	ND	ND	ND	ND	ND
Iron as Fe	0.1	0.11	0.08	0.14	0.19	0.24
Cr⁶⁺	ND	ND	ND	ND	ND	ND
Total Chromium as Cr	ND	ND	ND	ND	ND	ND
Copper as Cu	ND	ND	ND	ND	ND	ND
Zinc as Zn	ND	ND	ND	ND	ND	ND
Selenium as Se	ND	ND	ND	ND	ND	ND
Nickel as Ni	ND	ND	ND	ND	ND	ND
Cyanide as CN⁻	ND	ND	ND	ND	ND	ND
Fluoride as F	ND	ND	ND	ND	ND	ND
Phenolic compounds as C₆H₅OH	0.06	0.06	ND	0.03	0.06	0.12
Manganese as Mn	ND	ND	ND	ND	ND	ND
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

survival

(*) 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 @ 27⁰C.

Monitoring & Analysis by Aditya Enviror

Limiting Standard (*)
5.5 to 9.0
not to exceed 600
not to exceed 350
not to exceed 250
not to exceed 20
not to exceed 50
not to exceed 0.2
not to exceed 0.2
not to exceed 0.01
not to exceed 1.0
not to exceed 1.0
not to exceed 3.0
not to exceed 2.0
not to exceed 2.0
not to exceed 3.0
not to exceed 15
not to exceed 0.05
not to exceed 3.0
not to exceed 2.0
not to exceed 15
not to exceed 5.0
not to exceed 2.0
90% survival of fish after 96 hr in 100% effluent

Environmental Services Pvt. Ltd.



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

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

FORM FOR FILING ANNUAL RETURNS

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

1. Name of the generator/operator of facility

I. G. Petrochemicals Ltd.

Address of the unit/facility

Plot T-2, MIDC Taloja, MIDC Industrial Area Panvel, Navi Mumbai- 410208.

1b. Authorization Number

Formate 1.0/BO/CAC-Cell/EIC No. NM-5370-14/1st CAC/4700

Date of issue

Apr 24, 2015

2. Name of the authorised person

MR. J. K. Saboo (Executive Director)

Full address of authorised person

Plot T-2, MIDC Taloja, MIDC Industrial Area Panvel, Navi Mumbai- 410208

Telephone

2239289100

Fax

2239289148

Email

jksaboo@igpetro.com

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

Product Type *	Product Name *	Quantity	UOM
Petrochemicals	Phthalic Anhydride	153161.5	MT/A
Petrochemicals	Benzoic Acid	747.8	MT/A
Petrochemicals	Power (Exported to Grid)	2.5	MW

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	Waste Name	Quantity	UOM
1.2 Tarry residues and still bottoms from distillation	Still bottoms from distillation process	927.18	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Discarded containers / barrels / liners contaminated with hazardous wastes / chemicals	13.312	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Filter bags	2.793	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	13.204	MTA
36.2 Spent carbon or filter medium	Spent carbon	5.035	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incineration of hazardous waste, flue gas cleaning residues	4.343	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	54.16	MTA
5.1 Used or spent oil	Used / spent oil	7.2	MTA
15.2 Discarded asbestos	Discarded asbestos	0.683	MTA

2. Quantity dispatched category wise.

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	13.312	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Incineration
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	2.793	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Incineration
35.3 Chemical sludge from waste water treatment	13.204	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Land Fill
36.2 Spent carbon or filter medium	5.035	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML)- Incineration
37.2 Ash from incinerator and flue gas cleaning residue	4.343	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Land Fill
1.6 Spent catalyst and molecular sieves	54.16	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Land Fill
5.1 Used or spent oil	7.2	MTA	Recycler or Actual user	Star Petrochemicals- / Poonam Petrochem Pvt. Ltd. Recycle/Sell
15.2 Discarded asbestos	0.683	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML)- Land Fill

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 bottoms from distillation process	927.18	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 bottoms from distillation process	0	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Discarded containers / barrels / liners contaminated with hazardous wastes / chemicals	0	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Filter bags	0	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	0	MTA
36.2 Spent carbon or filter medium	Spent carbon	0	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incineration of hazardous waste, flue gas cleaning residues	0	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	0	MTA
5.1 Used or spent oil	Used / spent oil	0	MTA
15.2 Discarded asbestos	Discarded asbestos	0	MTA

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

1.Total Quantity received	UOM
NA	KL/Anum
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	Quantity of waste received from domestic sources	Quantity of waste imported(If any)	Units
NA	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
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LIST OF ANNEXURES

ANNEXURE NO.		<u>DETAILS</u>
ANNEXURE-I		CER guidelines from MOEF&CC
ANNEXURE-II	:	Environmental Monitoring Reports for: <ul style="list-style-type: none"> - Ambient Air Quality, - Ambient Noise Level, - Stack Emission Monitoring, - Work Room Air Quality Monitoring - ETP Inlet / Outlet Monitoring Reports
ANNEXURE - III	:	Data on Water Consumption & Waste Water Generation
ANNEXURE - IV	:	Data on Residue Generation
ANNEXURE - V	:	Ack. Copy of last six monthly compliance report submitted
ANNEXURE - VI	:	Photograph Showing Designated Area for Raw Material Storage
ANNEXURE - VII	:	Layout Plan
ANNEXURE - VIII	:	Details of Occupational Health Surveillance Programme
ANNEXURE -VIIIA		Health register form -7
ANNEXURE - IX	:	Budget for Environmental Protection
ANNEXURE - X	:	Copy of Advertisements
ANNEXURE - XI	:	Note on revamped ETP
ANNEXURE - XII	:	Photograph of display board
ANNEXURE - XIII	:	Copy of MWML Membership Certificate
ANNEXURE - XIV	:	Copy Hazardous Waste Returns for year 2017 - 2018
ANNEXURE - XV	:	Copy of Consent to Operate
ANNEXURE-XVI	:	OCEMS Dashboard

ANNEXURE-XVII	:	CSR Details
ANNEXURE-XVIII		ESR/CER Budget
ANNEXURE-IXX		EC Amendment
ANNEXURE-XX		PA4 Consent to establish
ANNEXURE-XXI		Environmental statement 2017-18
ANNEXURE-XXII		IGPL web site snapshot
ANNEXURE -XXIII		EC copy submission to Panvel Municipal Corporation.

ANNEXURE - IV

Data on Residue Generation
Period: April 2018- Sept 2018

Month	Residue Generation mt
April 2018	78.479
May 2018	80.181
June 2018	104.294
July 2018	64.127
Aug 2018	70.473
Sept 2018	73.876

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 -3Dated: 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	<i>Under Proposed Additional Capacities of Products</i> 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 885 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 Talaja, Tehsil Panvel, District Raigad (Maharashtra), as stated in para 3 above.

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

SK
20/2/2018
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032 (Maharashtra)
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Nagpur (Maharashtra)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor Opp. Cine Planet, Sion Circle, Mumbai - 400 022 (Maharashtra)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, New Delhi
6. Guard File/Monitoring File/Record File

SK
20/2/2018
(S. K. Srivastava)
Scientist E



Towards sustainable growth

bsi.

Mumbai Waste Management Limited

Certificate

M/s. I.G. Petrochemicals Limited

is a registered member of

Taloja

CHW-TSDF at MIDC, Taloja

for safe & secure disposal of
Hazardous Waste.

Membership no.: MWML - HzW .T.A.L....946.

This Certificate is valid up to

March, 31st, 2020

Somnathi Malgar
Head - MWML

Dinkar Adhavi
Director

MWML Laboratory is accredited by NABL and Approved by MoEF

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%

- visal
- (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.


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

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

Copy for information to:

- 1 PS to Minister for Environment, Forest and Climate Change
- 2 PS to Mns (EP&CC)
- 3 PPS to Secretary (EP&CC)
- 4 PPS to AS(A&J) / AS(A&M)
- 5 PPS to JS(GB) / JS(JT)
- 6 Website, MueP&CC
- 7 Guard File



IG PETROCHEMICALS LIMITED

Date: 29th June 2018

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

Sub: Submission of Six Monthly Environmental Clearance Compliance Status Report.
Ref.: Environmental clearances granted for expansion of petrochemical unit, by
MoEF vide clearance no.

- 1) J-11013/14/2007-IA II (I) dated: 12th June, 2007
- 2) J-11011/994/2007/IA (II) I, Dated: 03.12.2009
- 3) J-11011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018

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 **October 2017 - March 2018**. We hope the above is to your satisfaction.

Thanking You,

Yours faithfully
FOR I. G. PETROCHEMICALS LTD


J K SABOO
EXECUTIVE DIRECTOR

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.

No. **Em1533 092004**
 Date **11/08/2011**
 From **The Director**
 To **Minister of Economy**
 Address **Ministry of Economy**
 No. **11/08/2011**
 At **Ministry of Economy**
 Date **11/08/2011**

EM15330043H 106:67711533004
 SP TALISA A.V. S.O. (410208)
 Counter No. 1.02/07/2010.13-46
 For THE US RESIDUAL MINISTRY
 P.O. 400000, Nangar GVO
 From: L.R. TALISA
 M1533004
 Ref: 70.80(Cash) 15:10.80
 Check on www.indiapost.gov.in
 (Post 1800 266 6666)

EM15330043H 106:67711533004
 SP TALISA A.V. S.O. (410208)
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 From: L.R. TALISA
 M1533004
 Ref: 70.80(Cash) 15:10.80
 Check on www.indiapost.gov.in
 (Post 1800 266 6666)

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

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

This Environmental Clearance was obtained for debottlenecking of plant for capacity 26110 TPA. Consolidated Consent to Operate for existing Plant PA –I & PA – II as well as for expanded PA – III plant is obtained. Now production is started. Actual production details as per listed below:

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

to Grid)				
Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of Environment & Forest, Government of India vide letter No. J-11013/14/2007-IAII (I) dated 12.06.2007 is complied.				
<p>The project activity is listed at 5 (f) in the Schedule of the EIA Notification, 2006 and is of 'B' Category being in the industrial area and shall not require Public Hearing. Based on the information provided by you, the Ministry of Environment and Forest hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and Generation condition</p>				
OK. Above condition is noted.				
A.	Specific Conditions:			
i.	<p>Due to this proposed de-bottlenecking, there will be a reduction in the generation of pollutants. The air pollution load will be reduce from 375.6 kg/hr to 366.50 kg/hr for PA-I and from 398.3 kg/hr to 336.40 kg/hr for PA-II. This will reduce the TOC in the scrubber outlet as inlet load will be reduced. Total DM water usage will be reduced from 3816 m³/hr to 3600 m³/hr due to reduced organics levels in the off gases.</p>	<p>We are regularly monitoring Air pollution through MoEF recognized laboratory. TOC monitoring reports for last one year are enclosed under ANNEXURE -II.</p> <p>We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD</p>		
ii.	<p>The DM makeup water will further be reduced to 2348 m³/month from 2434 m³/month. The total effluent generation from both the plants will reduce from 2304 m³/hr to 2088 m³/hr.</p>	<p>Yes, Agreed. Data on Actual Water Consumption & Waste Water Generation for last one year is enclosed as ANNEXURE - III</p>		
iii.	<p>There will be no change in the quantity of</p>	<p>Yes, Agreed. Data on Residue Generation for</p>		

	distillate residue generated. It will be disposed off as per the authorization from MPCB.	last one year is enclosed as ANNEXURE -IV
iv.	There will be no increase in Storage tanks.	There has been no change in Storage Tanks / Quantity.
v.	All other conditions prescribed by Ministry at the time of expansion of PA- II will be prevail.	Yes six monthly reports are being submitted regularly
vi.	Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained	Yes, Noted. Work zone monitoring reports for last one year are enclosed under ANNEXURE - II
vii.	Raw material will be stored in covered yards. Water sprinkling arrangement should be made in the raw material stock yard to control fugitive emissions.	Major Raw Material is o-Xylene which is liquid in nature. Stored in Storage tanks with sprinklers arrangement. Photograph showing designated storage area for storage of raw material: o-Xylene are enclosed as ANNEXURE - VI
viii.	Acoustic enclosure will be installed to limit the noise levels below 85 dBA.	Yes, Enclosures have been provided at various Noise Generating locations. Monitoring Reports for last one year are enclosed under ANNEXURE - II
ix.	The company shall strictly follow all the relevant guidelines of CPCB given from time to time.	Agreed / Is being done
x.	25% of the total land area will developed as green belt.	Yes, we have developed green belt in company premises. Plan showing Green belt enclosed as ANNEXURE - VII .

xi.	The company shall harvest surface as well as rainwater from the rooftops of the building proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Yes, we are in process of installation of Rain Water Harvesting (RWH). We have installed rainwater harvesting at two locations and these are in operation .
xii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	<p>Yes, regular Occupational Health surveillance of the workers is carried out regularly as required under Factories act. A copy of form-VII Annual Medical Examination report of Workers is enclosed as <u>Annexure-VIII A & Annexure VIII</u></p> <p>Company has well equipped Occupational Health center (OHC) with two beds located in its admin building.</p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year.</p>

B.	General Conditions:	
i.	The project authority must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and State Government.	Yes agreed. We have received Consent to Operate from Maharashtra Pollution Control Board vide no. Formate 1.0/ BO/CAC-Cell/UAN No. 30425/2 nd CAC/1806000105 Dated: 02/06/2018, Copy of same is enclosed

		as Annexure – XV.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
iii.	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four Ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the SPCB. It will be ensured that at least one monitoring station is set up in up-wind & down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and SPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.	We are regularly monitoring Ambient Air Quality Monitoring through MoEF recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises and nearby villages. Ambient Air Monitoring Reports for last one year is enclosed as ANNEXURE – II
iv.	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.	We are regularly monitoring effluent quality through MoEF recognized laboratory. Effluent monitored at intermediate stages of ETP. Inlet / Outlet of ETP monitoring Reports for last one year are enclosed under ANNEXURE - II
v.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422	Analysis being done as per MPCB consent norms and has been extended to cover all parameters as per GSR 422 (E). Reports are

	(E) dated 19th May 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	enclosed under ANNEXURE - II
vi.	The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Yes, above condition is complied with. We have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for last one year are enclosed under ANNEXURE - II showing compliance to in plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vii.	Proper House Keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.	<p>Yes, proper house keeping and adequate occupational health programs are taken up regularly. Occupational Health surveillance of the workers is carried out regularly as required under Factories act. Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Details of OHC provided at site are enclosed as <u>Annexure-VIII.</u></p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. Note on Occupational health surveillance programme enclosed as ANNEXURE - VIII</p>
viii.	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer

	functions shall be set up under the control of a Senior Executive.	looks after safety related compliance.
ix.	Separate funds will be earmarked for the environmental protection measures and shall be used judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Yes, we have provided separate funds for Environmental Protection Measures and we affirm that same will not be diverted for any other purpose, Budget for Environment Protection is enclosed as ANNEXURE - IX
x.	Concerned Regional Office of this Ministry / SPCB / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	Yes, we are regularly submitting six monthly compliance report to the ministry / SPCB / CPCB. Please refer ANNEXURE - V for last submitted six monthly compliance report.
xi.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in. The advertisement should be made within 7 days from the date of issue of the clearance letter and copy of the same should be forwarded to the	Yes, we have advertised in two local newspapers in vernacular language's such as Marathi at Navshakti & in English at Free Press Journal. Copy of advertisement is enclosed as ANNEXURE - X .

	Ministry's Regional Office at Bhopal.	
xii.	The project authority shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Not applicable as production change worked out on the basis of changing over to a high yield catalyst.
	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Yes, Agreed.
	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.	Yes. Noted.

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

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

The project has been completed in the year 2013.

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

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

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

A.	SPECIFIC CONDITIONS:	
i)	The Company shall install full-fledged ETP to treat the process effluent and treated effluent after primary, secondary and tertiary treatment and confirming to the prescribed standards shall be sent to CETP for further treatment. The company shall construct a guard pond for treated effluent and shall carry out the bioassay test by collecting the treated effluent into guard pond before discharging into CETP. The reports shall be submitted to CPCB and Ministry's Regional Office at Bhopal.	The existing ETP plant is revamped to treat the additional load from the expansion before commissioning the Phase III plant. A guard pond is already provided in existing ETP. Bioassay test is already carried out on our effluent through MOEF recognized third party. Company is already a Member of CETP and all effluents shall be disposed to CETP. The note on revamping of ETP is enclosed as ANNEXURE - XI . We have online emission and effluent monitoring system connected to CPCB and MPCB servers .Ref ANNEXURE XVI .
ii)	Process emissions in the form of HCl and TOC shall be controlled by installation of scrubbers. The company shall provide the monitoring arrangements with stack and regular monitoring shall be carried out and reports submitted to the SPCB, CPCB and Ministry's Regional Office at Bhopal. The gaseous emissions from the DG sets shall be dispersed through stack	Process emissions are controlled by three stage scrubbers. Provision shall be made of sampling port hole and monitoring is being done. DG sets are provided with stack height of 31 m which is as per the Consent granted to our unit. Regular monitoring is carried out through MoEF recognized laboratory. Monitoring reports for existing plants are being submitted to SPCB, CPCB and Ministry's Regional Office at Nagpur .

	of adequate height as per CPCB / state pollution Control Board standards.	All stacks are connected to CPCB and MPCB OCEMS system.
iii)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their Website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal office of CPCB and State Pollution Control Board. The Pollutant levels namely, SPM, RSPM, SO₂, NO_x & CO (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We are uploading compliance data on our web site. We shall file 6 monthly returns to various Authorities as stipulated. We are regularly monitoring ambient air quality and stack emissions from various stacks. Display Board as specified by Honorable Supreme Court is put up at our Gate. Please refer ANNEXURE - XII .
iv)	Fugitive emission in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.	We monitor the fugitive emissions at work place/shop floor as desired. The monitoring of work zone is carried out regularly in our Phase I and Phase II plants. Please refer ANNEXURE - II .
v)	The company shall explore the possibility of sending the spent carbon and bio sludge to the cement plant plants or spent carbon should be incinerated.	Spent carbon is generated from ETP tertiary treatment process and thus unsuitable for burning in cement plants. Also, quantity generated is very small (10 TPA max) and there is no Cement plant in 500 km distance from our unit. Hence, we shall dispose this in CHWTSDF Taloja which is located in 2 km distance from our unit. Copy of MWML Membership Certificate is enclosed as ANNEXURE - XIII & Copy of Hazardous Waste Return submitted in form - IV for 2017 - 2018 is enclosed as ANNEXURE - XIV .
vi)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, as amended from time to time.	We shall abide by this strictly. The site details are submitted to the DISH as they are the prescribed authority under the MSIHC Rules. Combined consent to operate / Authorization from MPCB for existing unit as well as expanded PA - III Plant is obtained & we have received renewal of same vide No. Formate 1.0/BO/CAC-Cell/UAN No.30425/2 nd CAC/1086000105 Dated: 02/06/2018 validity: 28.02.2018 to

	Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.	31.08.2021 (Annexure - XV). We shall abide by the conditions of the Authorization. All hazardous chemicals/wastes are transported as per MVA, 1989 and through approved transporters of MPCB.
vii)	The project authority shall obtain the membership of TSDF for disposal of solid and hazardous waste and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.	Yes complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste from Phase I and Phase II plants to TSDF. Copy of the membership certificate enclosed as ANNEXURE - XIII .
viii)	The company shall develop in land area of 35685 sq. ft, as per the CPCB guidelines to mitigate the effect of fugitive emissions.	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt. Please refer ANNEXURE - VII for details of Green belt developed.
ix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant. Trained Male nurse is provided in all three shifts and Doctor visits the plant 2 hours every day as also we have tie up with local hospitals to attend to medical emergencies. Please refer ANNEXURES - VIII & VIIIA
x)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Complied- entire plant is covered by a hydrant system, which is provided with separate fire water reservoir and emergency pumps (diesel operated). Fire extinguishers are kept in various parts of the plant depending upon type of fire hazard likely.
xi)	The company shall comply with the recommendations made in the EIA/EMP and Risk Assessment Report	We are abiding by the recommendations in the EIA/EMP and Risk assessment study.
B.	GENERAL CONDITIONS:	
i)	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Combined Consent to Operate /Authorization from MPCB is obtained for existing unit as well as expanded PA - III plant (Annexure - XV). We shall abide by the conditions of the Consent /Authorization and other stipulations.

ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alternations in the project proposal from those submitted to this \Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Yes, agreed.
iii)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Yes, agreed.
iv)	The gaseous emissions (NO_x, SO₂ and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions level shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO₂, NO_x and SPM shall be carried.	Regular stack / vent monitoring will be carried out through MoEF recognized laboratory, as is the practice in existing plants. We agree to comply stipulations as above. We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD
iv)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the up wind and down wind directions as well as where maximum ground level concentrations are anticipated.	Yes, the ambient air quality monitoring is carried out regularly in existing plants and same practice will be continued in future.

v)	The overall noise levels in and around the plant area shall kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989 viz. 75 dBA (day Time) and 70 dBA (night time).	Ambient and work place Noise level monitoring is carried out regularly in existing plants and same practice will be continued in future. We have taken all control measures as stipulated to control noise. REFER ANNEXURE II
vii)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management & risk mitigation measures relating to the project shall be implemented.	Yes agreed.
viii)	The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details
ix)	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details
x)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment Management looked after by General Manager and directly reporting to Executive Director. Separate Safety Officer looks after safety related compliance. Environmental Laboratory Set up in ETP to look after performance monitoring if ETP, all other sampling outsourced.
xi)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of	Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in expansion project.

	Environment & Forests as well as the State Government along with the implementation schedule from all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	
xii)	The implementation of the project vis-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.	Yes- being done regularly.
xiii)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local body and local NGO, if any from whom suggestions / representations, if any were received while processing the proposal.	Yes –submitted to Ghot Grampanchayat.
xiv)	The project proponent shall also submit six monthly reports on the status of compliance of conditions stipulated E C conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and State Pollution Control Board.	Yes six monthly reports are being submitted regularly
xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in . This shall be advertise within seven days from the date of issue of the clearance letter, at least two local Newspapers widely circulated in the	Complied- advertisement was placed in media on obtaining the Environmental clearance. Refers ANNEXURE X

	region around the project, one of which shall be in the vernacular language of the locality concerned and copy of the same should be forwarded to the Ministry's Regional Office of the Ministry.	
xvi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of construction.	The implementation of Phase III PA plant is done. Benzoic acid recovery project which envisages recovery of benzoic acid from residue and waste water is installed and commissioned- copy of combined Consent to Operate for all units enclosed- ANNEXURE - XV
7)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Yes, above condition is noted.
8)	The Ministry reserves the right to stipulate additional conditions. If found necessary. The company is a time bound manner implements these conditions.	Yes, above condition is noted.
9)	Any appeal against this environmental clearance shall lie with the National Appellate Authority, if proffered within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.	Yes, Noted.
10)	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of pollution) Act, 1981, The Environment Protection Act 1986, Hazardous Waste (Management & Handling) Rules, 2003/2008 and Public Liability Insurance Act, 1991 along with their amendments and rules.	Yes, Noted.

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

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

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

Production details of existing unit as per listed below::

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

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

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

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

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

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

OK. Above condition is noted.

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

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

	be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF & CC, CPCB and SPCB.	(24*7) monitoring system for flow measurement and for measurement of pollutant from air emission within the unit. We have connected online emission monitoring system to CPCB / MPCB Server and data link has been provided on company's website. Refer Annexure - XVII for OCEMS dashboard
vi.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Yes, will be Complied with- entire plant will be covered by a hydrant system, which will be provided with separate fire water pump and emergency pumps (diesel operated) as per existing unit. Fire extinguishers will have kept in various parts of the plant depending upon type of fire hazard likely.
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yes, it is carried out regularly in existing plants and same practice will be adopted in proposed unit. Trained Male nurse is provided in all three shifts and Doctor visits the plant 2 hours every day as also we have tie up with local hospitals to attend to medical emergencies. REFER ANNEXURE VIII & VIIIA
viii.	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	We are having necessary permissions for existing plants. We have already applied to MPCB for CTE, which covers the requirement from the expansion plants. We are member of CHW-TSDF REF ANNEXURE XII

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

v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Yes, we have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. Same practice will be carried out for proposed expansion (PA- IV). All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for last one year are enclosed under ANNEXURE - II showing compliance to in existing plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Yes, We have installed rain water Harvesting System (RWH) to conserve fresh water.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Yes, Training will be carried out of all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for regular basis.
viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA & EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Yes agreed. All Environmental Protection measures will be carried out as per documents submitted to ministry.
ix.	The company shall undertake all relevant	Yes, the company contributes to nearby

	measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Ashram / local village Grampanchayat.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Company is undertaking various community welfare measure for improvement of the environment as under: <ol style="list-style-type: none"> 1. Donation to Paramshanti Vridhasharam Trust, Taloja @ Rs. 13,750/- per month 2. Donation to Blind Organization of India. 3. Donation to Sarvajani Durga Mata Navrathri Utsav, Ghot Village. Donation to Hanuman Janmotsav, Ghot village.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment Management looked after by Vice President (Production), Manager (Env) and directly reporting to Executive Director. Separate Safety Officer looks after Safety related compliances. Environment Laboratory is set up in ETP to look after performance monitoring of ETP. All other sampling and analysis is outsourced from MoEFFCC approved laboratories
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Yes, Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in proposed expansion project.
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal	Yes, Agreed, we will arrange to send copy of Environmental Clearance letter to

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

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

ANNEXURE - VI

Photographs of Raw Material Storage



ANNEXURE-XII

1. Date of Information Update : 26 SEPT 2018
 १) माहोती अद्ययावत केम्बाची तारीख : 26 SEPT 2018

2. NAME OF COMPANY : I G PETROCHEMICALS LTD.
 २) कंपनीचे नाव : आय.जी. पेट्रोकेमिकल्स लिमिटेड.

3. Address : प्लॉट नं. टी२, एम.आय.डी.सी.सी. तलाव जिन्हा - तलाव ४१०२०८. Plot No. T2, MIDC Talaja Dist. : Raigad, 410208.

4. Contact Person : J. K. SABOO
 ४) प्रति संपर्क : जे.के. साबू
 Designation : Executive Director
 Contact Number : 022 39289102
 संपर्क : क्र. ०२२३९२९९१०२

5. Total Capacity / Production :
 ५) एकूण क्षमता / उत्पादन

Weeks आठवडा	Date तारीख	Raw Materials काचया माल	Products उत्पादन	Wastes वेस्ट
Previous Week मागील आठवडा	From पासून 08 Sept 15 Sept To पर्यंत	3323-750 MT	PA = 3840-100 MT BA = 15-000 MT	NIL
Current Week चालू आठवडा	From पासून 14 Sept 24 Sept To पर्यंत	3093-758 MT	PA = 3527-250 MT BA = 12-000 MT	NIL

6. Production Flow Chart indicating point of waste (solid, liquid & gaseous) generation :
 ६) काचया बिंदू दर्शविणारा उत्पादन प्रवाह चार्ट

7. Consent under Air and Water Act issued on 02-08-2018, valid upto 31-08-2021.
 ७) वायू आणि जल अधिनियम अंतर्गत परमिती : ०२-०८-२०१८, वैध ३१-०८-२०२१

७) वायू आणि जल अधिनियम अंतर्गत परमिती : ०२-०८-२०१८, वैध ३१-०८-२०२१

(a) Condition for Effluent Discharge
 अ) सांडपाणी स्वच्छी स्थिती

(i) Quantity of Effluent per day : i) दिवसाचे सांडपाणी उत्सर्जन

Trade Effluent औद्योगिक सांडपाणी	Non - Trade Effluent इतर सांडपाणी
218 M ³ / Day	09 M ³ / Day

(ii) Quantity of Treated Effluent (specify the relevant pollutant) : ii) प्रक्रिया झालेले सांडपाणी

(a) PH : (b) TSS : (c) TDS : (d) BOD :
 a) पीएच b) टी.एस.एस. c) टी.डी.एस. d) बी.ओ.डी.

(iii) Mode of Disposal of Treated Effluent : CETP iii) प्रक्रिया झालेल्या सांडपाण्याची विल्होपाटची पध्दत सी.ई.टी.पी.

7. (b) Conditions for Air Emissions b) उत्सर्जन अट :
 (i) Stack Height(s) (ii) Capacity of DG set.
 i) चिमणी उंची ii) डीजेल जनरेटर क्षमता

Fuel date इंधन तारीख	DG set डीजेल सेट	Furnance फर्नेस	Boiler बॉयलर
Type of fuel इंधन प्रकार	HSD इंधन	F. OIL/Residue ऑयल/रेसिड्यू	F. OIL फायरिंग ऑयल
Quantity of fuel इंधनाचे मात्रा			
Pollutants प्रदूषक			

(iv) Quality of Air Emission (Specify the relevant pollutant for the industry)
 (iv) वायू उत्सर्जन प्रमाण

8. Authorization under Hazardous Waste (Management & Handling) Rules issued on 02-08-2018, valid upto 31-08-2021.
 ८) धातूक टाकणू पदार्थाच्या अंतर्गत अधिकृतता दिलेले संमती पत्र जारी आहे ०२-०८-२०१८, वैध ३१-०८-२०२१

8. (a) Authorization granted for HW generation under the condition :
 (i) Category of waste generated :
 i) उत्सर्जन काचयाचे वर्गीकरण
 ८) (a) वा परिमितीनुसार धातूक टाकणू पदार्थाच्या निर्मितीसाठी संमती दिली आहे.

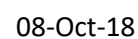
(ii) Quantity of waste at storage facility
 ii) एकूण काचया काठमा साठवण सुविधा

iii) Waste disposal facility

The screenshot displays the I G Petrochemical dashboard. At the top, the title 'I G Petrochemical' is visible, along with the location 'MDC TALQA, Malaysia' and the company name 'PETROCHEMICALS'. The dashboard is divided into several sections:

- Live Readings:** This section contains four circular icons, each representing a different live reading. Each icon is labeled with a value and a unit, and includes a brief description of the reading.
 - 1.0 mg/Nm3:** Stock: 1.0 mg/Nm3, 11/01/2018 10:10. Unit: mg/Nm3. Limit: 200 mg/Nm3. Range: 0 - 1000.
 - 1.0 mg/Nm3:** Stock: 1.0 mg/Nm3, 11/01/2018 10:10. Unit: mg/Nm3. Limit: 200 mg/Nm3. Range: 0 - 1000.
 - 1.0 mg/Nm3:** Stock: 1.0 mg/Nm3, 11/01/2018 10:10. Unit: mg/Nm3. Limit: 200 mg/Nm3. Range: 0 - 1000.
 - 1.0 mg/Nm3:** Stock: 1.0 mg/Nm3, 11/01/2018 10:10. Unit: mg/Nm3. Limit: 200 mg/Nm3. Range: 0 - 1000.
- I G Petrochemical Dashboard:** This section features a line graph showing the 'Stock: 1.0 mg/Nm3, 11/01/2018 10:10' over a 10-minute interval. The graph shows a fluctuating line with a peak around 10:10. Below the graph, there are several data points and a legend.
- Site Status:** This section contains a table with columns for 'Status', 'Location', and 'Status'. The table lists various site locations and their corresponding status.

The dashboard also includes a sidebar on the left with navigation links for 'Home', 'Live Readings', 'Site Status', 'Reports', and 'Settings'. The top right corner shows the user's name 'Admin' and a logout button.



ANNEXEURE XXII[Home](#)[About Us](#)[Products](#)[QMS](#)[News & Media](#)[Investors Relations](#)[CSR](#)[Enquiry](#)[Home](#) [QMS](#)

Quality Management Systems

A 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 respect of the following standards –

- ISO 9001:2008 – Quality Management Systems
- ISO 14001:2004 – Environment Management System

Ensuring that we fully identify and conform to the needs of our customers.

To fulfill and exceed customer needs and expectations by delivering a quality product in a consistent and timely manner
Continuous improvement in our process.

IGPL's management is fully committed to the Quality Policy through active participation in quality improvement activities.

Our Business

Phthalic Anhydride (PAN)



IGPL is one of the largest producers of Phthalic Anhydride (PAN) of international standards at a single location.

[Read More](#)

[Live Stack Monitoring](#)



Environmental Documents

1. Environmental clearance compliance status report-15th, May 2016
2. Environmental clearance compliance status report-16th, November 2016
3. Environmental clearance compliance status report-16th, May 2017
4. Environmental clearance ...Ministry of Environment and Forest
5. Environmental clearance compliance ...Ministry of Environment and Forest & Climate Change
6. Datasheet ...Ministry of Environment and Forest & Climate Change
7. Environmental clearance compliance status report-01st, December 2017
8. Environmental Audit Report for the financial Year ending the 31st March 2017
9. Environmental clearance compliance status report-18th, July 2017
10. Environmental clearance Amendment report-20th, February 2018
11. Environmental clearance Amendment report-29th, June 2018



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Corporate Office: 401-404, Raheja Centre, 214 , Nariman Point, Mumbai - 400021, Tel.No: +91 22 3028 6100 , Fax No: 022-22040747 / 22836392 , Email: igpl@igpetro.com, CIN : L51496GA1988PLC000915

Registered Office: T-10, 3rd Floor, Jairam Complex, Mala, Neugi Nagar, Panaji, Goa - 403 001 Tel.No: 0832-2434973

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	Limit	Heater		DG-Set	Boiler	Scrubber		
		PA-1	PA-2			PA-1	PA-2	PA-3
SO2	1700	297.00	0.00	0.00	0.00	0.00	0.00	0.00
CO	200	0.00	0.00	--	1.00	--	--	--
NO	450	54.00	0.00	0.00	0.00	4.00	0.00	3.00
PM	100	24.00	9.20	6.00	4.00	12.00	24.40	13.00
TOC	150	--	--	--	--	1.00	1.80	1.00



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Company Information

Company Name

I. G. Petrochemicals Ltd.

Application UAN number

NA

Address

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

Plot no

T- 2

Taluka

Taloja

Village

Taloja Industrial Area, Raigad

Capital Investment (In lakhs)

66499.00

Scale

Large Scale Industry (LSI)

City

Taloja

Pincode

410208

Person Name

Mr. J. K. Saboo

Designation

Executive Director

Telephone Number

+912239289100

Fax Number

+912239289148

Email

jksaboo@igpetro.com

Region

SRO-Taloja

Industry Category

Red

Industry Type

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

Last Environmental statement submitted online

yes

Consent Number

Formate 1.0/BO/CAC-Cell/EIC No.
NM-5370-14/1st CAC/4700

Consent Issue Date

24/04/2015

Consent Valid Upto

28/2/2018

Product Information

Product Name

Phthalic Anhydride

Consent Quantity

169110

Actual Quantity

153188.50

UOM

MT/A

Benzoic Acid

1000

747.80

MT/A

By-product Information

By Product Name

Not Applicable

Consent Quantity

0

Actual Quantity

0

UOM

MT/A

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

634

Actual Quantity in m3/day

616.67

Cooling

3452

2027.03

Domestic

14

13.80

All others

0

0.00

Total

4100

2657.50

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Quantity of trade effluent from the factory	639	230.53	CMD
Daily Quantity of sewage from the factory	12	9.5	CMD
Daily quantity of treated effluent	0.00	240.03	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	1.225	1.449	CMD
Benzoic Acid	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	0.922	0.918	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
FO (Furnace Oil)	12600	6047.69	MT/A
HSD(High Speed Diesel)	2988	212.81	MT/A

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

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH	-	7.8	8.23	6.0 - 8.5	NA
Suspended Solids	7.777	32.4	67.6	100 mg/l	NA
BOD	8.209	34.20	65.8	100 mg/l	NA
COD	26.403	110.00	56	250 mg/l	NA
Oil & Grease	1.680	7.00	30	10 mg/l	NA
Total Dissolved Solid	389.423	1622.4	22.74	2100 mg/l	NA
Chloride	128.224	534.20	46.58	600 mg/l	NA
Sulphate	51.558	214.80	64.2	1000 mg/l	NA
TAN	0.256	1.067	97.87	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	Standard	Reason
	Quantity	Concentration	%variation		
Stack - I (Boiler)- Pthalic Anhydride - TPM	51.74	65.83	56.31	150 Mg/ Nm3	NA
Stack - I (Boiler)- Pthalic Anhydride - SO2	150.89	192.01	83.23	900 Kg/day	NA

Stack - I (Boiler) - Pthalic Anhydride - NOx (31.60 ppm)	46.73	59.46	36.80	50 ppm	NA
Stack - II Heater (1)- Pthalic Anhydride I - TPM	4.67	90.08	39.95	150 Mg/ Nm3	NA
Stack - II Heater (1)- Pthalic Anhydride I - SO2	83.60	1610.96	90.71	900 Kg/day	NA
Stack - II Heater (1)- Pthalic Anhydride I - NOx (32.60 ppm)	3.184	61.35	34.8	50 ppm	NA
Stack - III Heater (2)- Pthalic Anhydride II - TPM	4.43	91.21	39.19	150 Mg/ Nm3	NA
Stack - III Heater (2)- Pthalic Anhydride II - SO2	83.36	1715.56	90.74	900 Kg/day	NA
Stack - III Heater (2)- Pthalic Anhydride II - NOx (34.64 ppm)	3.17	65.18	30.72	50 ppm	NA
Process Stack (1) - Scrubber - PA I (VOC)	89.17	65.36	75.79	270 mg/Nm3	NA
Process Stack (1) - Scrubber - PA I (SO2) (8.27 ppm)	29.57	21.68	83.46	50 ppm	NA
Process Stack (2) - Scrubber - PA II (VOC)	88.97	65	75.93	270 mg/Nm3	NA
Process Stack (2) - Scrubber - PA II (SO2) (8.816 ppm)	31.62	23.10	82.37	50 ppm	NA
Process Stack (3) - Scrubber - PA III (VOC)	92.38	67.64	74.95	270 mg/Nm3	NA
Process Stack (3) - Scrubber - PA III (SO2) (17.44 ppm)	62.41	45.69	65.12	50 ppm	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
1.6 Still bottoms from distillation proce	1016.4	927.18	MT/A
1.7 Spent catalyst and molecular sieve	0	54.16	MT/A
5.1 Used /spent oil	4.2	7.2	MT/A
15.2 Discarded asbesto	15.3	0.683	MT/A
33.3 Discarded containers / barrels / liner	0	13.312	MT/A
33.3 Discarded containers / barrels / liner	0	2.793	MT/A
35.3 Spent carbon*	11.3	5.035	MT/A
36.2 Ash from incineration of hazardous waste	0	4.343	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.3 Chemical sludge from waste water treatment	16.71	13.204	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other debris like insulation, packaging materials etc.	0	0	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)	152.51	145.501	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
1.6 Still bottoms from distillation proce	1016.4	927.18	MT/A

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
1.6 Still bottoms from distillation proce	927.18	MT/A	Viscous (Disposal - Use as fuel heater)
1.7 Spent catalyst and molecular sieve	54.16	MT/A	Solid (Disposal - Sent back to manufacturer)
5.1 Used /spent oil	7.2	MT/A	Liquid (Disposal - Sale CPCB / MPCB authorized reprocessor)
15.2 Discarded asbesto	0.683	MT/A	Solid (Disposal-Sent to CHWTSDF)
33.3 Discarded containers / barrels / liner	13.312	MT/A	Solid (Disposal-Washed & Reused)
33.3 Discarded containers / barrels / liner	2.793	MT/A	Solid (Disposal-Washed & Reused)
34.3 Chemical sludge from waste water treatment	13.204	MT/A	Semi Solid (Disposal- Sent to CHWTSDF)
35.3 Spent carbon*	5.035	MT/A	Solid (Disposal-Sent to CHWTSDF)
36.2 Ash from incineration of hazardous waste	4.343	MT/A	Solid (Disposal-Sent to CHWTSDF)

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Biological Sludge from ETP	145.501	MT/A	Solid (Disposal- CHWTSDF) - Landfilling
Other debris like insulation, packaging materials etc.	0	MT/A	Solid (Disposal- CHWTSDF)

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Details of Power, water consumption & ETP etc.	0.000	0.00	601970	0.00	125.33	0.00

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)
Effluent Treatment Plant (ETP)	Treatment of effluent prior to disposal	NIL

[B] Investment Proposed for next Year

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

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

Particulars

Consent to Operate granted for Phthalic Anhydride (169110 MT/A) & Benzoic Acid (1000 MT/A) as a By - Product.

Name & Designation

Mr. J. K. Saboo (Executive Director)

ANNEXURE – IX

BUDGET FOR ENVIRONMENT PROTECTION

Description	Capital Cost (Rs. Lakhs)	Recurring Costs per Annum (Rs. Lakhs)
Environmental Monitoring	--	15.00
Green Belt	--	3.00
HW Disposal / Treatment etc.	--	25.00
Effluent Treatment		
Manpower	--	8.00
Power	--	5.50
Chemicals / Nutrients	--	12.00
Miscellaneous R & M	--	22.00
TOTAL	--	47.50
Improvements to ETP		
As part of expansion ETP is being upgraded to incorporate RO and MEE to recycle max.quantity of effluent. The consented effluent discharge will reduce from existing 686 m3/day to 221 m3/day.	Budgeted capital expenditure is rs 20 crores approx	The upgradation is at execution stage. Attached statement gives status of orders.The project is expected to be completed by june2019

ETP ORDERS

PROJECT NAME	LOI	LOI DATE	PO NUMBER	PO DATE	VENDOR NAME	ITEM DESCRIPTION	PO DELIVERY DATE	PO/LOI BASIC VALUE	PO/LOI PO VALUE WITH TAX
ETP-PA4.	LOA RELEASED	2-Jul-18	ERP PO PENDING	2-Jul-18	RAY CONSTRUCTIONS	CIVIL ETP WORK	4-Nov-18	5 65 00 000	8 22 40 031
ETP-PA4.	IGPL/2018/DPJ/ETP/LOA-1	1-Mar-18	IG-PA4-18190017	19-Apr-18	NEILSOFT	UPGRADTION OF ETP & NEW ZLD	15-Dec-18	1 00 00 000	1 18 00 000
ETP-PA4.	IGPL/2018/DPJ/ETP/LOA-2.	28-Apr-18	IG-PA4/18190059	28-Apr-18	MAZDA LTD	MEE+ATFD	15-Sep-18	3 69 00 000	4 35 42 000
ETP-PA4.	IGPL/2018/DPJ/ETP/LOA-3.	28-Apr-18	IG-PA4/18190082 & IG-PA4/18190153	28-Apr-18	PROMINENT ENGINEERING SERVICES	MEE+ATFD	15-Sep-18	1 61 00 000	1 89 98 000
ETP-PA4.			IG-PA4/18190029	3-May-18	MAHESHWARI INDUSTRIES	TMT STEEL FOR ETP	6-May-18	22 27 350	26 28 273
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-14.	4-May-18	IG-PA4-18190058	4-May-18	AQUAMECH ENGINEERING CORPORATION	UF-RO	5-Oct-18	1 14 00 000	1 34 52 000
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-14.	4-May-18	IG-PA4-18190119	4-May-18	AQUAMECH ENGINEERING CORPORATION	UF-RO	5-Oct-18	3 00 000	3 54 000
ETP-PA4.			IG-PA4/18190045	16-May-18	TECHNIP ENGINEERING WORKS PVT LTD	PUDDLE PIPE	23-May-18	80 000	94 400
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-40.	23-Jun-18	IG-PA4-18190093	23-Jun-18	NETZSCH TECHNOLOGIES INDIA PRIVATE LIMITED	PROGRESSIVE CAVITY PUMP	18-Aug-18	2 63 000	3 10 340
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-41.	23-Jun-18	IG-PA4/18190090	23-Jun-18	ORBIT PUMPS & SYSTEMS PVT LTD	PVDF PUMP	18-Aug-18	3 65 000	4 30 700
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-44.	26-Jun-18	IG-PA4/18190091	26-Jun-18	INDOFAB INDUSTRIES	TRICKLING FILTER/FLASH MIXER/FLOCULATOR/P RIMARY CALRIFIER	18-Sep-18	10 00 000	11 80 000
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-45.	26-Jun-18	IG-PA4-18190088	26-Jun-18	SPX TECHNOLOGY(I) PVT LTD	CENTRIFUGAL PUMP	21-Aug-18	4 80 000	5 66 400
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-52.	4-Jul-18	IG-PA4-18190107	4-Jul-18	EVEREST BLOWERS PVT LTD	BLOWERS	29-Aug-18	7 98 000	9 41 640
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-63.	16-Jul-18	IG-PA4-18190118	16-Jul-18	MM AQUA TECHNOLOGIES LTD	TRICKLING FILTER MEDIA.	20-Aug-18	17 50 000	20 65 000
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-67.	24-Jul-18	IG-PA4-18190140	24-Jul-18	SHAPOTOOLS	DOSING SYSTEM WITH INTRUMENTS.	16-Oct-18	21 00 000	24 78 000
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-72.	24-Jul-18	IG-PA4-18190132	24-Jul-18	PUNJA PETROKEM ENGINEERING LTD	TANKS & MIXER	21-Aug-18	4 12 950	4 87 281
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-75.	1-Aug-18	IG-PA4-18190142	1-Aug-18	LOYLI TECHNOLOGIES	LIME DOSING SYSTEM WITH INTRUMENTS.	30-Sep-18	5 50 000	6 49 000
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-77.	2-Aug-18	IG-PA4-18190152	2-Aug-18	ACCUSONIC CONTROLS PVT. LTD.	TRICKLING FILTER MCC PANEL	30-Aug-18	4 85 000	5 72 300
ETP-PA4.			IG-PA4-18190149	11-Aug-18	TEGH CABLES PVT LTD	CABLES	16-Aug-18	41 640	49 135
ETP-PA4.			IG-PA4-18190171	29-Aug-18	FORBES MARSHALL (HYD) PVT LTD	PRESSURE GAUGES FOR ETP	28-Sep-18	87 400	1 03 132
ETP-PA4.			IG-PA4-18190172	29-Aug-18	EUREKA INDUSTRIAL EQUIPMENTS PVT LTD	ROTAMETERS FOR ETP	13-Oct-18	17 397	20 528
ETP-PA4.			IG-PA4-18190175	5-Sep-18	BNA STEEL INDUSTRIES	STRUCTURAL STEEL FOR ETP DOSING SKIDS	7-Sep-18	4 16 440	4 91 399
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-99.	12-Sep-18	ERP PO PENDING	12-Sep-18	AQUAMECH ENGINEERING CORPORATION	FILTER PRESS	7-Nov-18	42 00 000	49 56 000
ETP-PA4.			IG-PA4-18190183	14-Sep-18	TECHNIP ENGINEERING WORKS PVT LTD	PUDDLE PIPES FOR TERTIARY CLARIFIER	26-Sep-18	1 97 000	2 32 460
ETP-PA4.			IG-PA4-18190184	15-Sep-18	TEGH CABLES PVT LTD	IEC CABLES FOR TRICKLING FILTER	22-Sep-18	3 91 349	4 61 791

ETP ORDERS

PROJECT NAME	LOI	LOI DATE	PO NUMBER	PO DATE	VENDOR NAME	ITEM DESCRIPTION	PO DELIVERY DATE	PO/LOI BASIC VALUE	PO/LOI PO VALUE WITH TAX
ETP-PA4.			IG-PA4-18190195	19-Sep-18	BNA STEEL INDUSTRIES	STRUCTURAL STEEL-ETP	26-Sep-18	61 93 248	73 08 032
ETP-PA4.	IGPL/2018/DPJ/PA4-MA4/LOA-110.	25-Sep-18	ERP PO PENDING	25-Sep-18	SMK INFRATECH	E & M TENDER FOR ETP TRICKLING FILTER	6-Nov-18	27 12 235	32 00 437
ETP-PA4.			IG-PA4-18190203	25-Sep-18	EMERSON PROCESS MANAGEMENT INDIA PVT LTD	MAGNETIC FLOW METER	20-Nov-18	96 200	1 13 516
ETP-PA4.			IG-PA4-18190204	25-Sep-18	VEGA INDIA LEVEL & PRESSURE MEASUREMENT PVT LTD	RADAR LEVEL TRANSMITTERS	30-Oct-18	80 300	94 754
ETP-PA4.			IG-PA4-18190202	24-Sep-18	FORBES MARSHALL (HYD) PVT LTD	GLOBE TYPE FLOW CONTROL VALVE	5-Nov-18	66 000	77 880
ETP-PA4.			IG-PA4-18190208	26-Sep-18	MAHESHWARI INDUSTRIES	TMT STEEL FOR PA-4 & ETP	29-Sep-18	21 24 950	25 07 441
ETP-PA4.			IG-PA4-18190215	5-Oct-18	NIKANT STEEL	TMT STEEL	7-Oct-18	9 85 475	11 62 861
								15 93 20 933	20 35 68 732

ANNEXURE VIIIA

[Prescribed under Rule 18(7)]
HEALTH REGISTER

(In respect of person employees in occupations declared to be dangerous operations under section 87)

Company Name:- I.G.PETROCHEMICALS LIMITED, Talaja Staff employees.

Fitness Checkup Period 06-Sep-18 To 05-Sep-19 Name of Certifying Surgeon DR. VIJAYA BAND

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job	Raw Material or	Employee Fit	Signature of
1	8-125131	NIKHIL A. BONDRE	Male	27				Fit	
2	8-230418	JAGDISH B. MATTE	Male	29				Fit	
3	8-125432	MAHESH DESHPANDE	Male	28				Fit	
4	8-240097	M.S. MUAJALAR	Male	58				Fit	
5	8-020059	NIWRUTTI UMALLE	Male	36				Fit	
6	8-040034	RAH K. SHEDBALE	Male	46				Fit	
7	8-280120	NARENDRA BENDI	Male	37				Fit	
8	8-230153	RAJ MUNDRA	Male	28				Fit	
9	8-120017	SHANKAR SHARMA	Male	32				Fit	
10	8-125142	SONNATH PETSANGWE	Male	24				Fit	
11	8-230128	PAVAN CHAUDHARI	Male	34				Fit	
12	8-125131	JITENDRA JACHAV	Male	28				Fit	
13	8-230128	S.N. KHADE	Male	53				Fit	
14	8-230050	T.RANGAPRASAD	Male	61				Fit	
15	8-110014	SANTOSH KUMAR PAUDEY	Male	47				Fit	
16	8-130009	VIKAS BHAGATKAR	Male	53				Fit	
17	8-041-1482	RAMA BALKAR	Male	48				Fit	
18	8-125140	NITESH MALI	Male	26				Fit	
19	8-280042	SWAPNIL SAWOOL	Male	28				Fit	
20	8-230247	ABHJIT BHAMBURE	Male	28				Fit	
21	8-040009	SANDEEP SURVE	Male	50				Fit	
22	8-170010	KAMLESH PAREEK	Male	46				Fit	
23	8-117004	PARAG JAIN	Male	51				Fit	
24	8-125022	A.G. DESHMUKH	Male	49				Fit	

Page 1 of 6

DR. VIJAYA BAND
M.D.S., D.O., A.T.M., B.A.
Reg. No. 57108
Authorized Certifying Surgeon
Under Factories Act 1948, Section 10(21)
District Assigned

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G. PETROCHEMICALS LIMITED, Talaja, Staff employees**

Fitness Checkup Period **06-Sep-19 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No | Emp Code | Employee Name | Sex | Age | Date of Empl | Nature of Job | Raw Material or Bye Product handled | Employee Fit | Signature of Certifying Surgeon

25 5-120010 RAJESH BAGRI Male 38

26 5-170010 GABARISINGH PAMVAR Male 48

27 8-952012 RUPAK KARNIK Male 32

28 5-140004 ANIL KUMAR GUPTA Male 53

29 5-200005 CHANDRASHEKHAR JOSHI Male 52

30 5-170010 VASUDEVSARDA Male 39

31 5-700028 NITIN DESHMUKH Male 54

32 5-950020 MOHAN KHATT Male 61

33 5-250301 AKSHAY DONGRE Male 28

34 9-250276 ROHIDAS JAGE Male 48

35 5-250200 KIRAN KANNERKAR Male 26

36 5-125006 SANTOSH RANE Male 43

37 5-710128 AMIT JAISWAL Male 25

38 5-250016 SUBODH KADAM Male 52

39 5-210121 MOHITKUMAR SINGH Male 27

40 5-210002 YOGESH N.PATIL Male 38

41 5-210007 SANDEEP KULKARNI Male 49

42 5-210127 PANKAJKUMAR JHA Male 26

43 5-130014 KISHOR D.BORADE Male 46

44 5-220010 SANJAY JAGTAP Male 41

45 5-230306 PRADESHANT SINGWAN Male 24

46 5-250297 NITESH MAHAMUNI Male 28

47 5-250023 DILIP LAKOTE Male 50

48 5-112004 MANI CHANDRAN WARMER Female 49

DR. VIJAYA BAND
M.B.S., D.G.O., F.I.H., B.A.
Reg. No. 57106
Authorized Certifying Surgeon
Under Factories Act 1947, Section 10(12)
Dist: Raigad

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- I.G.PETROCHEMICALS LIMITED, Talaja, Staff employees

Fitness Checkup Period 06-Sep-18 To 05-Sep-19

Name of Certifying Surgeon

DR. VIJAYA BAND

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Eye Product handled	Employee Fit	Signature of Certifying Surgeon
49	8-270000	PRANINDRA CHAUDHARY	Male	31				Fit	
50	8-120008	SATYANARAYAN MAHESHWARI	Male	61				Fit	
51	8-120010	RAJESH PURWAR	Male	50				Fit	
52	8-210035	AKSHAY V. SHINDE	Male	24				Fit	
53	8-210018	SHRIRAM THAKUR	Male	30				Fit	
54	8-280024	RAJESH P.	Male	36				Fit	
55	8-230012	VIVEK M. THAJ	Male	25				Fit	
56	8-250011	SOYMON THOMAS	Male	47				Fit	
57	8-180050	BINDESHWAR P. SHAH	Male	47				Fit	
58	8-180018	NILESH S. PANDE	Male	43				Fit	
59	8-220084	K.M.CHIDANANDAPPA	Male	61				Fit	
60	CA7	SUNIL S. CHAVAN	Male	25				Fit	
61	8-210127	AMOL BURYAYANSHI	Male	30				Fit	
62	8-230021	SANDESH KADAM	Male	25				Fit	
63	8-210130	SATYAKRISHNAN ALLURI	Male	26				Fit	
64	8-250138	KOLTI RAMA RAGHAVA KUMAR	Male	52				Fit	
65	8-210133	VIVEK K.G.	Male	27				Fit	
66	CA7HKE20	PRADIP SALUNKHE	Male	52				Fit	
67	8-120134	VIVEK SHINDE	Male	28				Fit	
68	8-280338	WAMANRAO KAKADE	Male	50				Fit	
69	8-250325	ROHIT J. SONI	Male	41				Fit	
70	8-280310	SACHIN ERUDKAR	Male	37				Fit	
71	8-221007	V. SHASHIDHAR REDDY	Male	45				Fit	
72	8-280001	SHIVKUMAR DHANJURE	Male	50				Fit	

Dr. Vijaya Band
 M.B.B.S., D.O., A.F.I.H., B.A.
 Reg. No. 57186
 Under Factories Act 1948, Section 10(2)
 Dist: Raigad

[Prescribed under Rule 18(7)]

FORM No. 7

HEALTH REGISTER

(In respect of person employee is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G.PETROCHEMICALS LIMITED (Tajira Staff employees)**

Fitness Checkup Period **06-Sep-19 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sl.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or	Employee Fit	Signature of Certifying Surgeon
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73	8-180008	AKHIL INGALE	Male	42				Fit	
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74	5-44021	VAIBHAV PATIL	Male	36				Fit	
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75	8-230117	SANJAY TEMGHARE	Male	34				Fit	
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76	8-220027	K.SHAASHOHAR REDDY	Male	28				Fit	
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77	5-240022	VILAY KASAR	Male	62				Fit	
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78	8-14004	RAMAKANT GAUTAM	Male	36				Fit	
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79	5-14004	SAGAR JARAG	Male	24				Fit	
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80	5-100003	K.S.PATIL	Male	53				Fit	
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81	0-230071	ANIL S.MAHADIK	Male	48				Fit	
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82	5-112002	BHASKAR GHARAT	Male	53				Fit	
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83	5-140008	V.K.MOHANDAS	Male	49				Fit	
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84	5-170018	AMIT KUMAR	Male	38				Fit	
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85	5-140008	ANIL SURADKAR	Male	32				Fit	
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86	5-220058	BHUSHAN PATIL	Male	27				Fit	
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87	4-280041	GANESH KAWADE	Male	28				Fit	
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88	5-140004	SUDHIR RANE	Male	40				Fit	
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89	8-250042	SANDEEP R.MAOKARNI	Male	52				Fit	
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90	5-140004	RAJENDRA CHANDRA	Male	50				Fit	
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91	5-140004	KIRAN KAMBLE	Male	22				Fit	
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92	5-140004	PRASAD AVADAN	Male	23				Fit	
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93	8-250045	MOHIT KATARE	Male	22				Fit	
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94	8-150004	BILAL AHMAD SHAIGH	Male	51				Fit	
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95	5-132007	VITHAL T.RANE	Male	62				Fit	
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96	8-240002	SANDEEP KADAM	Male	31				Fit	
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DR. VIJAYA BAND
M.B.B.S., D.O., A.T., M.B.A.
Reg. No. 57106
Authorized Certifying Surgeon
Under Factories Act 1948, Section 87
Dist: Raigad

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees in occupations declared to be dangerous operations under section 87)

Company Name:- **I.G. PETROCHEMICALS LIMITED, Talaja, Staff employees**

Fitness Checkup Period **08-Sep-18 To 05-Sep-19** Name of Certifying Surgeon: **DR. VIJAYA BAND**

Sl. No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
87	GA2-6	ASHISH SOMANI	Male	23				Fit	
88	S-150004	OHARMA NARSING	Male	54				Fit	
89	S-25-1431	PRASAD GARUD	Male	32				Fit	
100	S-210134	KIRAN K. PATIL	Male	23				Fit	
101	S-240032	SHASHIKANT GUTAR	Male	50				Fit	
102	B CAT	P. NARAYANAN KUTTY	Male	62				Fit	
103	S-145004	MAHJUMATHI R.	Female	54				Fit	
104	S-125108	GAJANAN MATKHE	Male	26				Fit	
105	S-180040	OOKUL KHATOOE	Male	40				Fit	
106	S-210117	NITYASWARADOP MAHAPATRA	Male	30				Fit	
107	S-150004	NAYAN PALADE	Male	54				Fit	
108	S-220047	PRABHAKAR PARISE	Male	41				Fit	
109	S-300081	D. AJAY KUMAR REDDY	Male	51				Fit	
110	S-250079	HANUMANT SURYAWANSHI	Male	34				Fit	
111	S-250044	K. KARTHIQANAL	Male	34				Fit	
112	S-250008	HEMANT ATHALYE	Male	61				Fit	
113	S-240083	ASHOK PULUSU	Male	48				Fit	
114	S-250038	BACHIN VALEKAR	Male	27				Fit	
115	S-210132	PRASHANT MUNDHGE	Male	57				Fit	
116	S-250070	S. SIKDAR	Male	60				Fit	
117	S-250001	PRADIEP VAIDYA	Male	62				Fit	
118	S-250034	GAURAV CHIKHALE	Male	28				Fit	
119	S-125103	GANESH PATIL	Male	36				Fit	
120	S-1500193	ANANTA BANAIT	Male	32				Fit	

Under Factories Act 1948, Section 10(2)
 Regd. No. 671106
 Authorized Certifying Surgeon
 Dist: Raigad

DR. VIJAYA BAND

FORM No. 7

[Prescribed under Rule 16(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **T.G. PETROCHEMICALS LIMITED, Talaja, Staff employees**

Fitness Checkup Period **06-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
121	B-125146	VISHAL PATIL	Male	26				Fit	
122	B-260327	MANDESH KALAP	Male	30				Fit	
123	B-464241	VINOD S KEETAY	Male	58				Fit	
124	B-150013	DHARMA SHEEL SHINDE	Male	40				Fit	
125	B-140037	MANISH TIWARI	Male	41				Fit	
126	B-180001	S.N.PATHAK	Male	60				Fit	
127	B-120009	MAHESH SOMANI	Male	64				Fit	
128	B-130012	RENOLD PINTO	Male	45				Fit	
129	B-210008	A.S.PAVAN KUMAR	Male	48				Fit	
130	B-310127	RANJEET THAKUR	Male	28				Fit	
131	B-250322	CHYANESHWAR KAWLE	Male	25				Fit	
132	B-200348	SURAJ SURYAVANSHI	Male	24				Fit	
133	B-260200	ONKAR BHURUGAWAR	Male	27				Fit	
134	B-280320	AMOL GHOSKE	Male	32				Fit	
135	B-250282	P.M.PANCHAKSHARIAN	Male	57				Fit	
136	S	N.L.MATHUR	Male	72				Fit	
137	B-226000	SRINIVAS GANDARU	Male	54				Fit	
138	B-240326	PRASHANT P.NIKAM	Male	28				Fit	
139	B-110017	MILIND GADRE	Male	43				Fit	
140	B-120010	NISHIT CHUDASAMA	Male	25				Fit	
141	B-216128	MILESH CHAUDHARI	Male	26				Fit	
142	B-180007	ANILKUMAR PANDEY	Male	43				Fit	

DR. VIJAYA BAND
M.B.B.S., D.G.O., A.F.I.M., B.A.
Reg. No. 57108
Authorized Certifying Surgeon
Union Factories Act 1948, Section 18(2)
Dist: Raigarh

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G. PETROCHEMICALS LIMITED, Talaja, Worker employees.**

Fitness Checkup Period **07-Sep-18 To 05-Sep-19**

Name of Certifying Surgeon

DR. VIJAYA BAND

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
1	W-128001	BALARAM R. PATIL	Male	52				Fit	
2	W-128002	RAJKISHOR KAPAR	Male	43				Fit	
3	W-120006	R.T. SAWASKAR	Male	58				Fit	
4	W-280001	NARAYAN KADAM	Male	50				Fit	
5	W-280005	SUNIL K. SHINDE	Male	48				Fit	
6	W-123008	UNNIKISHAN K.	Male	43				Fit	
7	W-122008	V.P. JOSHI	Male	45				Fit	
8	W-128009	KISHOR MADHAVI	Male	45				Fit	
9	W-110000	APPA VETE	Male	52				Fit	
10	W-280032	T.Y. PAWAR	Male	50				Fit	
11	W-080007	ANANT PATIL	Male	58				Fit	
12	W-230014	RAJESH RAJE	Male	47				Fit	
13	W-240066	R.C. MHATRE	Male	49				Fit	
14	W-280039	ASHOK BAGAL	Male	48				Fit	
15	W-250018	ASHOK DHAWALE	Male	52				Fit	
16	W-128008	ANANTA PATIL	Male	52				Fit	
17	W-280083	SAWDEEP VADYA	Male	45				Fit	
18	W-121001	SHYAM MADHAV	Male	54				Fit	
19	W-280000	ATUL BHIOE	Male	47				Fit	
20	W-240017	LAXMAN DOKE	Male	44				Fit	
21	W-280022	SHANKAR S. PATIL	Male	56				Fit	
22	W-280030	D.N. NAIK	Male	51				Fit	
23	W-210014	AVINASH DHAWDE	Male	42				Fit	
24	W-210032	PARAG KAMBH	Male	42				Fit	

Dr. Vijaya Band
 Reg. No. 67106
 M.B.B.S. D.G.O., A.F.J.M., B.A.
 Authorized Certifying Surgeon
 Under Factories Act 1948, Section 16(2)
 Dist. Raigad

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employee's is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G. PETROCHEMICALS LIMITED, Talaja, Worker employees.**

Fitness Checkup Period **07-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or By Product handled	Employee Fit	Signature of Certifying Surgeon
25	W-120041	NARESH GLAD	Male	48				Fit	
26	W-120015	MADHUKAR NICHURKAR	Male	46				Fit	
27	W-240001	M.M.SINAPKAR	Male	50				Fit	
28	W-120040	GIRISH CHAVAN	Male	48				Fit	
29	W-120003	DOLFI J. VAZ	Male	48				Fit	
30	W-250027	SANJAY PATIL	Male	44				Fit	
31	W-120015	BALKRISHNA M.PATIL	Male	51				Fit	
32	W-120008	TUKARAM PATIL	Male	51				Fit	
33	W-250049	HASURAM B. THAKUR	Male	48				Fit	
34	W-114002	R.P. TIWARI	Male	54				Fit	
35	W-240018	SAMEER KANE	Male	48				Fit	
36	W-144004	ABODH S. RAUT	Male	46				Fit	
37	W-250034	LAXMIKANT TIWARI	Male	45				Fit	
38	W-250037	R.R. PRADHAN	Male	44				Fit	
39	W-240018	VINAYAK PATIL	Male	43				Fit	
40	W-250035	S.K. KORGADKAR	Male	51				Fit	
41	W-240041	M.S. WAYANGANKAR	Male	48				Fit	
42	W-240026	JAYRAM SHARMA	Male	50				Fit	
43	W-128010	SAKHAMRAM KAMBLE	Male	56				Fit	
44	W-240030	MAHADEV KULE	Male	58				Fit	
45	W-120007	SHRIPAD BHATRE	Male	47				Fit	
46	W-250048	SANDESH PATIL	Male	49				Fit	
47	W-214038	MANOJKUMAR SINGH	Male	52				Fit	
48	W-220013	MANOJKUMAR KULKARNI	Male	51				Fit	

DR. VIJAYA BAND
 M.B.B.S. D.G.O. A.F.I.H., B.A.
 Reg. No. 57106
 Authorized Certifying Surgeon
 Under Factories Act 1948, Section 10(2)
 Dist: Raigad

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G.PETROCHEMICALS LIMITED, Taloja, Worker employees.**

Fitness Checkup Period **07-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Eye Product handled	Employee Fit	Signature of Certifying Surgeon
49	W-26004	KALURAM PATIL	Male	58				Fit	
50	W-125417	BAKRISHNA PATIL	Male	50				Fit	
51	W-26013	MAHESH BAGUL	Male	45				Fit	
52	W-127938	P.P. THAKUR	Male	47				Fit	
53	W-250045	ANIL TRIPATHI	Male	46				Fit	
54	W-256023	SUNIL SONAR	Male	47				Fit	
55	W-250058	AMIT GHARAT	Male	44				Fit	
56	W-128318	MILKANTH PATIL	Male	42				Fit	
57	W-140018	DEEPAK GURJAR	Male	43				Fit	
58	W-126026	DHUP M. PATIL	Male	48				Fit	
59	W-114005	B.R. NAIK	Male	50				Fit	
60	W-250042	PRAKASH PATIL	Male	43				Fit	
61	W-140013	MAHADEO THORAT	Male	61				Fit	
62	W-250017	SHANWAR PATIL	Male	59				Fit	
63	W-250046	BABURAO A. PATIL	Male	51				Fit	
64	W-120007	ASHOK BHATRE	Male	57				Fit	
65	W-128318	SAANTOSH L. PATIL	Male	40				Fit	
66	W-122007	V.S. GANGEKAR	Male	46				Fit	
67	W-250018	BALARAM GONDHAI	Male	58				Fit	
68	W-210044	ARJUNKUMAR JHA	Male	53				Fit	
69	W-128008	KANSHIL BHATT	Male	52				Fit	
70	W-128016	BAKRISHNA R. PATIL	Male	53				Fit	
71	W-128023	EKNATH JALE	Male	44				Fit	
72	W-210014	KAMDEO PATIL	Male	55				Fit	

DR. VIJAYA BAND
M.B.B.S., D.O., A.F.M.S.,
Reg. No. 57105
Authorized Certifying Surgeon
(Under Factories Act 1947, Section 44-B)

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(in respect of person employees in occupations declared to be dangerous operations under section 87)

Company Name:- **I.G.PETROCHEMICALS LIMITED Talaja, Worker employees.**

Fitness Checkup Period **07-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No Emp Code Employee Name Sex Age Date of Empl Nature of Job Raw Material or Byo Product handled Employee Fit Signature of Certifying Surgeon

73	W-120002	DILIP BHOIR	Male	45				Fit
74	W-260034	VIJAYKUMAR UPADHYAY	Male	51				Fit
75	W-260041	ASHOK NIGUMKAR	Male	48				Fit
76	W-120082	SANTOSH J.PATIL	Male	48				Fit
77	W-120040	MANGESH MANJALE	Male	42				Fit
78	W-170004	PRABOD MATHUR	Male	52				Fit
79	W-230009	DEVAP BAPU	Male	50				Fit
80	W-260084	YASHWANT RASKAR	Male	46				Fit
81	W-250088	RISHIKESH PATIL	Male	45				Fit
82	W-150000	MEENA R. SHRIWAS	Female	50				Fit
83	W-140006	RAJESH K.PATIL	Male	47				Fit
84	W-120019	P.S.GHISGAOMAL	Male	57				Fit
85	W-260020	SHIVKAM PATIL	Male	53				Fit
86	W-260017	CHANDRAKANT S.BHOIR	Male	46				Fit
87	W-120008	VIJAY P.PATIL	Male	45				Fit
88	W-260060	YOGESH DESAI	Male	41				Fit
89	W-220013	S.A.KABADI	Male	48				Fit
90	W-260029	BHASKAR KOPARKAR	Male	51				Fit
91	W-260025	SUNIL KAMAT	Male	45				Fit
92	W-260034	V.P.KULKARNI	Male	50				Fit
93	W-260048	ANANTA NIGUMKAR	Male	52				Fit
94	W-250024	B.B.THETE	Male	51				Fit
95	W-230045	NITIN DAVE	Male	44				Fit
96	W-250081	DILIP KANKALE	Male	45				Fit

DR. VIJAYA BAND
M.B.S., D.G.O., F.I.M., B.A.
Reg. No. 57108
Authorized Certifying Surgeon
Under Factories Act 1948, Section 10(2)
Dist. Raigad

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **G. PETROCHEMICALS LIMITED, Talaja, Worker employees.**

Fitness Checkup Period **07-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl. or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
97	W-123005	MANOHAR SONAWANE	Male	49			Fit	
98	W-126007	DATTATRAY PATIL	Male	50			Fit	
99	W-226021	RAVISHI MORE	Male	48			Fit	
100	W-210028	SHANTARAM KAMBLE	Male	47			Fit	
101	W-110004	PRADNYA BHATKAR	Female	49			Fit	
102	W-210013	ASHOK GHOLAP	Male	55			Fit	
103	W-125040	B.D. RASKAR	Male	47			Fit	
104	W-250099	PRASHANT T. MHATRE	Male	44			Fit	
105	W-250047	NARESH KHARE	Male	57			Fit	
106	W-210009	C.K. CHAVAN	Male	53			Fit	
107	W-250007	S.G. PHIKLE	Male	45			Fit	
108	W-250030	ANANDKUMAR THWAR	Male	46			Fit	
109	W-210012	MANIKANT DUBEY	Male	49			Fit	
110	W-220004	A.V. CHANDNANI	Male	51			Fit	
111	W-240002	BHASHIKANT RUPALE	Male	49			Fit	
112	W-280051	ANANDKUMAR UPADHAY	Male	43			Fit	
113	W-170044	LAHU S. NIGHUKAR	Male	44			Fit	
114	W-420017	HITENDRA PADALKAR	Male	50			Fit	
115	W-250046	NARESH SHELAKE	Male	51			Fit	
116	W-250027	SHRIHAR SONAWANE	Male	47			Fit	
117	W-260008	GANESH PATIL	Male	42			Fit	
118	W-250049	MURLIDHAR SARODE	Male	58			Fit	
119	W-260003	MOHAN B. PATIL	Male	58			Fit	
120	W-111008	VASUDEO PATIL	Male	49			Fit	

Page 3 of 3

DR. VIJAYA BAND
 M.B.B.S., D.O., A.F.I.M., B.A.
 Reg. No. 57106
 Authorised Certifying Surgeon
 Under Factories Act, 1948, Section 10(2)
 Dist: Raigad

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G. PETROCHEMICALS LIMITED, Talaja, Worker employees.**Fitness Checkup Period **07-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
121	W-250025	GIRISH T.	Male	52			Fit	
122	W-121000	SURESH K.SHINDE	Male	44			Fit	

Dr. Vijaya Band
 M.B.B.S., D.G.O., A.F.I.H., B.A.
 Reg. No. 67108
 Authorised Certifying Surgeon
 Under Factories Act 1946, Section 10(2)
 Dist: Raigad

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- **I.G.PETROCHEMICALS LIMITED, Talaja, Contract employees.**

Fitness Checkup Period **08-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
1		PRITESH GAVIT	Male	26				Fit	
2		DEVANAND KATHIE	Male	27				Fit	
3		ROHIDAS PATIL	Male	60				Fit	
4		ASHOK C. SHANMA	Male	38				Fit	
5		OMKAR KUDAVHAR	Male	25				Fit	
6		VICKY PATIL	Male	26				Fit	
7		SAGAR JITEKAR	Male	26				Fit	
8		SAGAR KATHIE	Male	28				Fit	
9		RAMESH PHADKE	Male	28				Fit	
10		GANESH KADAM	Male	28				Fit	
11		L.K.BORUJAH	Male	40				Fit	
12		LALLUPRASAD SAKET	Male	40				Fit	
13		AJAY KUMAR BINGH	Male	40				Fit	
14		NAI ESH GONDHALI	Male	34				Fit	
15		PRALHAD RAJE	Male	30				Fit	
16		GURUMATH PATIL	Male	43				Fit	
17		SANTOSH PATIL	Male	40				Fit	
18	BHOPAL MARITAL	AMIT RAYSUNA	Male	27				Fit	
19	BHOPAL MARITAL	RAMBABU MAHASETH	Male	48				Fit	
20		OHARMEYDRA RAM	Male	38				Fit	
21		SUDHIR K. THAKUR	Male	48				Fit	
22		BABURAO KATHIE	Male	35				Fit	
23		ARUN KUMAR VISINUDEY	Male	48				Fit	
24		RAJESH MOKAL	Male	41				Fit	

Dr. Vijaya Band
M.B.S., D.O., A.F.H., S.A.
Reg. No. 57185
Authorized Certifying Surgeon
(In the District of Raigad)

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)
 Company Name:- **I.G. PETROCHEMICALS LIMITED, Talaja, Contract employees.**

Fitness Checkup Period **08-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sl. No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
25		BABURAO MAJI	Male	48				Fit	
26		BHAMUDAS KULKARNI	Male	42				Fit	
27		SHEKHAR GAWDE	Male	21				Fit	
28		SURYAKANT GAWDE	Male	53				Fit	
29		MILAN JOSHI	Male	25				Fit	
30		ANANTA MOKAL	Male	49				Fit	
31		KARVACHAND BINGDI	Male	55				Fit	
32		ARUN PATIL	Male	48				Fit	
33		VASANT PATIL	Male	40				Fit	
34		RAMESH K. PATIL	Male	43				Fit	
35		AKASH SOLANKAR	Male	23				Fit	
36		PRAKASH SAKPAL	Male	48				Fit	
37		BAPU D. NITVE	Male	36				Fit	
38		BALHIM SOLANKAR	Male	37				Fit	
39		ARJUN B. MORE	Male	33				Fit	
40		DILIP N. SOLANKAR	Male	23				Fit	
41		KAKA SATUNKE	Male	47				Fit	
42		SHARAD SOLANKAR	Male	26				Fit	
43		DATTATRAY BAIPUTE	Male	23				Fit	
44		RAJARAM BANGAR	Male	40				Fit	
45		RAMBABU RAUT	Male	41				Fit	
46		RAVIRAJ SINGH	Male	23				Fit	
47		SHIVAPPA WAKSHE	Male	22				Fit	
48		LALASO DORGE	Male	34				Fit	

DR. VIJAYA BAND
 M.B.B.S., D.G.O., F.I.M.S., B.A.
 Reg. No. 51186
 Authorized Certifying Surgeon
 Under Factories Act 1948, Section 14(2)
 Dist. Raichur

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER


{ In respect of person employees is occupations declared to be dangerous operations under section 87)

Company Name:- I.G.PETROCHEMICALS LIMITED,Taaja,Contract employees.

Fitness Checkup Period 08-Sep-18 To 05-Sep-19

Name of Certifying Surgeon

DR. VIJAYA BAND

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
49		TAYAPPA T.KADAM	Male	49				Fit	 Dr. Vijaya Band Reg. No. 67106 M.B.B.S., D.O., A.F.M., B.A. Authorised Certifying Surgeon Factories Act 1948, Section 10(2) District Rajahmundry
50		BALKRISHNA DORGE	Male	38				Fit	
51		APPA K.DORGE	Male	45				Fit	
52		SHANTILAL GALANDE	Male	30				Fit	
53		RAJURAO DORGE	Male	44				Fit	
54		DATTA THOMBRE	Male	38				Fit	
55		VITHALJIJI BANGAR	Male	27				Fit	
56		ASHOK CHOUGULE	Male	38				Fit	
58		RAMESH NIKHUKAR	Male	30				Fit	
59		MANAN KUMAR SINGH	Male	38				Fit	
60		SANJAY PRASAD GUPTA	Male	32				Fit	
61		KRISHNA DHUMAL	Male	38				Fit	
62		CHANDRAKANT CHORMALE	Male	63				Fit	
63		TANAJI YANGAR	Male	55				Fit	
64		BRUPEN SAKIA	Male	35				Fit	
65		BALARAM C. PATIL	Male	63				Fit	
66		CHANDREQ HAZARE	Male	46				Fit	
67		BALARAM D.MADHAVI	Male	44				Fit	
68		PULAK GHOSII	Male	40				Fit	
69		ARUN MAHATO	Male	44				Fit	
70		SUNIL RAUF	Male	28				Fit	
71		MOHAMMAD KUMAR JHA	Male	38				Fit	
72		ARUN SINGH	Male	30				Fit	
73		SURESH PATIL	Male	38				Fit	

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)
 Company Name:- **L.G. PETROCHEMICALS LIMITED, Talaja, Contract employees.**

Fitness Checkup Period **08-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No Emp Code Employee Name Sex Age Date of Empl or Occupation Nature of Job Raw Material or By-Product handled Employee Fit Signature of Certifying Surgeon

74		LALOO PATIL	Male	47					Fit
75		SACHIN KHANDEKAR	Male	26					Fit
76		BANJAY KAU	Male	28					Fit
77		TEJAL MANTO	Male	40					Fit
78		BALARAM J.PATIL	Male	48					Fit
79		SHATRUGHAN SINGH	Male	45					Fit
80		BAJIRANG SAWANT	Male	29					Fit
81		MOHAN BANGAR	Male	40					Fit
82		SUNIL RASKAR	Male	28					Fit
83		UMESH PURBEY	Male	44					Fit
84		MANOHAR WAKSHE	Male	41					Fit
85		SHYAM THAKUR	Male	44					Fit
86		KUNAL PATIL	Male	30					Fit
87		MILIND TUNTUNE	Male	38					Fit
88		SHAMJIWAR SANGADE	Male	47					Fit
89		KESHAV PATIL	Male	41					Fit
90		RAJESH T.PATIL	Male	38					Fit
91		MANGAL RAI	Male	60					Fit
92		HARIBHADRAN BHUNDARE	Male	41					Fit
93		GOPAL THAKUR	Male	42					Fit
94		DEEPAK GAVIT	Male	26					Fit
95		SADASHIV DEVAHDAR	Male	40					Fit
96		RAJENDRA UGALE	Male	38					Fit
97		RAM PARVESH SINGH	Male	48					Fit

DR. VIJAYA BAND
 M.B.B.S., D.O., A.F.M., B.A.
 Reg. No. 57108
 Authorized Certifying Surgeon
 Under Factories Act 1948, Section 10(2)
 Dist: Raigad

FORM NO. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

{ In respect of person employed in occupations declared to be dangerous operations under section 87 }

Company Name:- **L.G.PETROCHEMICALS LIMITED, Talaja, Contract employees,**

Fitness Checkup Period **08-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No Emp Code Employee Name Sex Age Date of Empl or Occupation Nature of Job Raw Material or Bye Product handled Employee Fit Signature of Certifying Surgeon

Dr. Vijaya Band
M.B.B.S., D.O., A.F.M., B.A.
Reg. No. 57106
Ft. Authorized Certifying Surgeon
(under Factories Act 1947, Section 10(2))
Dist: Raigarh

98 BHANSA CHOUGULE

Male 48

99 SANJAY BANDEKAR

Male 45

100 ASHOK WAGHMUDE

Male 45

101 VIJAYKUMAR SHINGADE

Male 38

102 RAVINDRA M. JADHAV

Male 29

103 BALARAM A. PATIL

Male 50

104 DEEPAK K. SHELAR

Male 48

105 SUBHASH KADAM

Male 43

106 SUSHIL U. AYTE

Male 48

107 SHIVAM S. MAHE

Male 44

108 SURYAKANT KHATAL

Male 31

109 AGATRAO KOLEKAR

Male 45

110 DEEPAK DUSHING

Male 28

111 BALAJI SOLANKAR

Male 26

112 RAVI GAIRWAD

Male 23

113 PRADIP MAHAPATRA

Male 28

114 ROHIT SINGH

Male 27

115 BAPURAO GHULE

Male 43

116 LAXMAN BANDGAR

Male 48

117 GAJANAN HUMNE

Male 41

118 JAGANNATH MANDAL

Male 48

119 NAMDEO PATIL

Male 52

120 MANGESH DONGRE

Male 32

121 SAMDIP MHATRE

Male 31

FORM No. 7

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees in occupations declared to be dangerous operations under section 87)

Company Name : **GOVT. PHARMACEUTICALS LIMITED, Taloja, Contact employees.**

Fitness Checkup Period **08-Sep-18 To 05-Sep-19** Name of Certifying Surgeon **DR. VIJAYA BAND**

Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job	Raw Material or	Employee Fit	Signature of Certifying Surgeon
122		SHASHIKANT BHOIR	Male	33				Fit	
123		TANAJI SHENORE	Male	40				Fit	
124		NARAYAN TRIPATHI	Male	32				Fit	
125		KAILASH PATIL	Male	44				Fit	
126		SATISH DOHGE	Male	23				Fit	
127		PAPPU M.BANGAR	Male	21				Fit	
128		RAJU CHOBEY	Male	30				Fit	
129		SHIVNATH PATIL	Male	38				Fit	
130		PRADEEP PATIL	Male	38				Fit	
131		VINOD MALUSARE	Male	42				Fit	
132		RAMKANT SINGH	Male	38				Fit	
133		RAMAKANT KHUSHWAH	Male	48				Fit	
134		SANJAY L.PATIL	Male	45				Fit	
135		VISHNU INGALE	Male	47				Fit	
136		KAMLESH GURTA	Male	18				Fit	
137		MOHAMMAD SAYEED	Male	21				Fit	
138		TAJ MOHAMMAD	Male	18				Fit	
139		DHANAJI ULVEKAR	Male	38				Fit	
140		GAUTAM KUMAR	Male	22				Fit	
141		NASARAT	Male	20				Fit	
142		DHIRENDRA KHUSHWAH	Male	19				Fit	
143		SHAKTI M JADHAV	Male	28				Fit	
144		RUPESH KATHE	Male	31				Fit	
145		SHAIKH SALAUDDIN	Male	40				Fit	

DR. VIJAYA BAND
M.B.B.S., D.C.O., F.I.H., B.M.
Reg. No. 57106
Authorized Certifying Surgeon
Under Factories Act 1948, Section 87
Dombivli

[Prescribed under Rule 18(7)]

HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section 87)


To be filled up by the Employer in respect of all employees engaged in dangerous operations.

Date of issue: _____

Fitness Checkup Period 08-Sep-18 To 05-Sep-19

Name of Certifying Surgeon

DR. VIJAYA BANO

Sr. No	Emp Code	Employee Name	Sex	Age	Date of Empl or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
148		KARUNA JENA	Male	35			Fit	 Dr. Vijaya Bano M.B.B.S., D.O., A.T.L.H., B.A. Reg. No. 47108 Authorized Certifying Surgeon Under Factories Act 1948, Section 10(2) Dist: Raigad
147		BHARAT DAS	Male	31			Fit	

ANNEXURE-XVII

I G PETROCHEMICALS LIMITED, TALOJA CSR ACTIVITIES DURING THE FINANCIAL YEAR 2018-2019

SR.NO	PARTICULARS	2018-19 (In Rs)
1	GOVERNEMENT INDUSTRIAL TRAINING INSTITUTE , PANVEL	25,000
2	WATER RESERVOIR AT KOREGAON (MLA,SHRI SHASHIKANT SHINDE)	10,00,000
3	PARAM SHANTIDHAM VRIDHAASHRAM (On monthly basis @Rs.30,000/- per month)	3,60,000
4	SOLAR POWER PROJECT AT PARAM SHANTIDHAM VRIDHAASHRAM	2,00,000
5	BOREWELL INSTALLATION & PIPE LINE WORKS AT 4 VILLAGES(AMBEGAON,KONDAPGAON, CHINCHWALIGAON & SIRAVALLIGAON)	6,80,000
6	TREE PLANTATION IN MIDC TALOJA (MIDC -CORRIDOR)	2,34,000
7	BLIND ORGANISATION OF INDIA (Contribution made from past 10 years)	30,000
8	PORTABLE OFFICE CABIN FOR POLICE STATION (At IGPL Road 'T' Junction and adjoining to plot T-2 Part across Nallaha)- ONE EACH	10,00,000
9	DIAGNOSTIC CENTRE proposed at Taloja spring shopping complex A) CAPEX - Rs. 27,82,500 B)Rental for the Diagnostic Centre 02 shops :- @ Rs.70000/- each per month :- Rs.16,80,000	29,22,500 44,62,500
10	DUSHMI KHARPADA	2,13,050
	TOTAL	1,11,27,050

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 2-4010437/4020781/403712
4035273
Fax : 2-4044532/4024068/402351
Email : cac-cell@mpcb.gov.in
Visit at : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion-
Matunga Scheme Road No. 8, Opp. Cine
Planet Cinema, Near Sion Circle, Sion (E),
Mumbai - 400 022.

Consent order No. Format 1.0/BO/CAC-Cell/UAN No. 0000036672/2nd CAC/ 1808000 654
Date: 16/08/2018

To,
M/s I G Petrochemicals Ltd.,
Plot No. T- 1 & T-2,
Taloja Industrial Area,
MIDC Taloja,
Dist: Raigad- 410 208.

Subject: - Consent to Establish for proposed expansion under RED/LSI Category.

Ref:- 1. Consent order No. Format 1.0/BO/CAC-Cell/EIC No. NM-5370-14/1st
CAC/4700 dtd. 24.04.2015.

2. Minutes of Consent Appraisal Committee meeting held on 28/06/2018.

Your application UAN No. 0000036672

Dated: 21.11.2017

For: Consent to Establish for proposed expansion under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- 1. The Consent to Establish is granted for a period upto commissioning of the unit or upto five years i.e. 30/06/2023 whichever is earlier.**
- 2. The capital investment of the industry is Rs. 980.99 Crs. [Existing - Rs. 664.99 Crs. + Proposed Expansion - Rs. 316 Crs.] as per Undertaking submitted by industry.**
- 3. The Consent is valid for the manufacture of -**

Sr. No.	Name of Product	Maximum Quantity (MT/A)
1	Phthalic Anhydride (PAN)	53,000
2	Benzoic Acid	500
3	Maleic Anhydride	1,160
4	Diethyl Phthalate/ Di Methyl Phthalate	12,600
By-products name		
5	Sodium Sulphate	900
6	Phthalic Acid	800
7	Monoester Salts	3,000

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	154	As per Schedule -I	100% Recycle/ reuse to achieve Zero Liquid Discharge (ZLD)
2.	Domestic effluent	20	As per Schedule -I	

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1	Hot Oil Heater/TO	1	As per Schedule -II
2	Process stack	3	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biological Sludge	15 MT/M	NA	Sent to CHWTSDF for landfill
2	Debris during maintenance activities like insulation/ packing material/ scrap iron etc.	2.5 MT/M	NA	By Sale to Auth. Party / at CHWTSDF

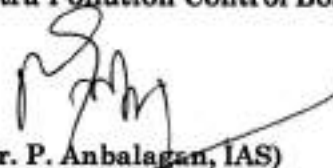
7. Conditions under Hazardous & Other Wastes (M&TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Hazardous Waste Category	Quantity	Disposal
1	Still bottoms from distillation process	1.2	1,412 MT/A	Use as fuel in heater/CHWTSDF
2	Organic Residues	1.4	12 MT/A	CHWTSDF
3	Spent Catalyst & Molecular Sieve	1.6	30 MT (once in 3 years)	CHWTSDF/ Sale to Auth. Recycler
4	Used/ Spent oil	5.1	10 MT/A	Sale to Authorized Re-processor
5	Discarded containers/ barrels/liners	33.1	50 Nos./A	Washed & reused
6	Discarded bags used for hazardous chemicals	33.2	2.5 MT/A	CHWTSDF
7	Chemical sludge from waste treatment plant	35.3	7.2 MT/D	CHWTSDF
8	Spent Carbon	36.2	70 MT/A	CHWTSDF
9	Sludge from wet scrubber	37.1	5 MT/D	CHWTSDF

- The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- Industry shall obtain Consent to Operate from the Board prior to commencement of commercial production of proposed expansion.
- The applicant shall comply with the conditions of the Environmental Clearance granted by MoEF&CC vide letter F. No. J-11011/73/2016-IA-II(I) dtd. 18/07/2017 and amendments dtd. 20/02/2018.
- The applicant shall provide full fledged Effluent Treatment Plant including RO & MEE for the treatment of effluent generated from proposed expansion and treated effluent from proposed expansion shall be 100% recycled into process, in cooling tower & utility to achieve Zero Liquid Discharge (ZLD). Also, net discharge of existing treated effluent into CETP shall be restricted to 220 m³/day.
- The applicant shall install online continuous monitoring systems and connect to CPCB & MPCB Servers for parameters Flow, pH, TSS, BOD & COD.

14. The industry shall not increase pollution load & hydraulic load on CETP due to proposed expansion.
15. This Consent is issued pursuant to the decision of the Consent Appraisal Committee meeting held on 28.06.2018.

For and on behalf of the
Maharashtra Pollution Control Board



(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD/DR/RTGS/NEFT No.	Date
1	Rs. 6,32,000/-	TXN1711001972	23/11/2017

Copy to:

1. Regional Officer (Navi-Mumbai) / Sub-Regional Officer (Taloja), M.P.C. Board.
-They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updating purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have proposed to provide Effluent Treatment Plant (ETP) consisting of primary, secondary & tertiary treatment followed by RO & MEE to achieve Zero Liquid Discharge (ZLD) for proposed expansion.
- 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	Standards prescribed by Board (If any)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	6.0 to 8.5
02	Oil & Grease	10 mg/l.
03	BOD (3 days 27°C)	100 mg/l.
04	Total Dissolved Solids	2100 mg/l.
05	Suspended Solids	100 mg/l.
06	COD	250 mg/l.
07	Sulphates	1000 mg/l.
08	Chlorides	600 mg/l.
09	TAN	50 mg/l.
10	% Sodium	60%
11	Bio-Assay Test	90% survival of fish after first 96 hours in 100% effluent.

C] The treated effluent from proposed expansion shall be 100% recycled into process, in cooling tower & utility to achieve Zero Liquid Discharge. Also, restrict net discharge of existing treated effluent into CETP to 220 m³/day. In no case treated effluent from proposed expansion shall be disposed of outside factory premises.

- 2) As per your consent application, you have proposed to treat 20 CMD of sewage generated from expansion into ETP.
- 3) 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 and extension or addition thereto.
- 4) 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.
- 5) The Applicant shall submit Water Cess Returns in Form-I and pay the Water Cess charges for period upto 30/06/2017 as per the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977. Industry shall install water meters for consuming water as follows:

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	1,254

2.	Domestic purpose	26
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	48
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	—
5.	Gardening	—

- 6) 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/ Environmental Clearance/ CREP guidelines.



Maharashtra Pollution Control Board

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-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Hr
1	Hot Oil Heater/ TO	Scrubber	31	HSD & Distillation residue	100 Kg/Hr 175 kg/Hr	-	48
2	Di ethyl Phthalate/ Di Methyl Phthalate / PA vent	Scrubber	50	---	----	---	----
3	Phthalic Anhydride De-dusting	Bag filter	12	---	----	-	----
4	Maleic Anhydride Bagging	Scrubber	30	---	----	-	----

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:

Total Particulate matter	Not to exceed	150 mg/Nm ³ .
Acid Mist	Not to exceed	35 mg/Nm ³ .

4. 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.
5. 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).



Schedule-III

Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C TO E	Rs. 5 Lakh	Within 15 days	Towards compliance of the Consent to Establish conditions	30/06/2023	31/10/2023


Maharashtra Pollution Control Board

Schedule-IV

General Conditions:

- 1) 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.
- 2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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 equipment, the production process connected to it shall be stopped.
- 6) 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.
- 7) The firm shall submit to this office, the 30th day of September every year , the Environmental 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.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Waste (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.
- 9) The industry should comply with the Hazardous & other Waste (M,H & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & other Waste (M,H & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) **The applicant shall obtain Consent to Operate from the Board prior to commencement of commercial production.**
- 12) 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).
- 13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 14) 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.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 16) 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.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) 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.
- 22) 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 equipment 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.
- 23) 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.
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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Maharashtra Pollution Control Board



ANNEXURE-XXIII

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IG 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,

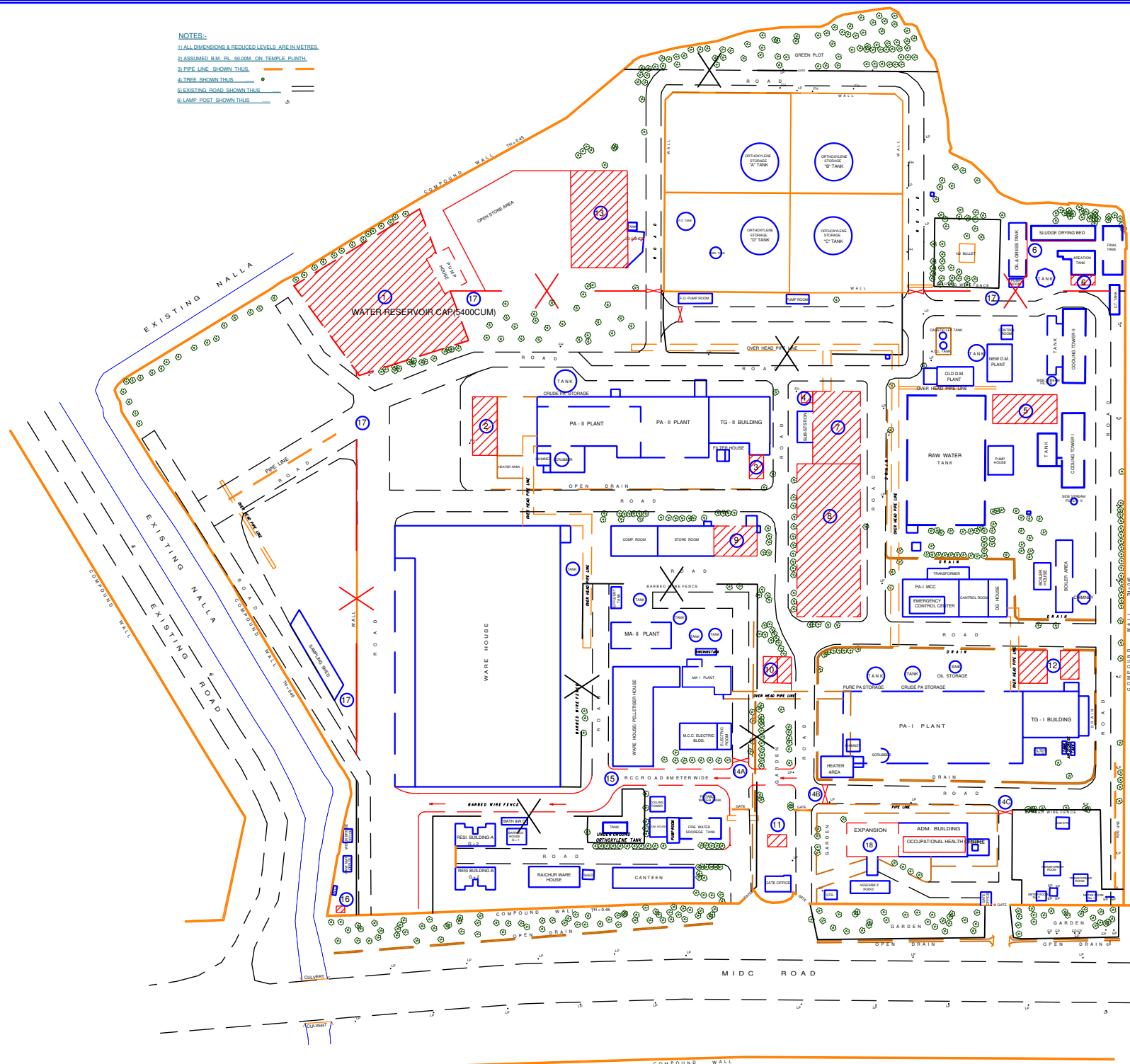
Yours faithfully,
For I G PETROCHEMICALS LIMITED

(JK SABOO)
EXECUTIVE DIRECTOR

Encl : As above

११/१०/१८
लेखनिक
आवक-जावक
पनवेल शहर महानगरपालिका
पनवेल - रायगड.

NOTES:
 1. ALL DIMENSIONS & REDUCED LEVELS ARE IN METRES.
 2. ASSUMED B.M. IN 50.00M ON TEMPLE PLINTH.
 3. PIPE LINE SHOWN THIS
 4. ALTERED SHOWN THIS
 5. EXISTING ROAD SHOWN THIS
 6. LAMP POST SHOWN THIS



ANNEXURE-VII

PROPOSED EXPANSION
FOR PA - 3 PLANT.

DETAILS :-

1. FIRE WATER 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



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

PUBLIC ANNOUNCEMENT

The proposed debottlenecking and resultant expansion of manufacturing capacity at I. G. Petrochemicals Ltd's plant at T2 MIDC, Talaja, 410208, Dist. Raigad, has been accorded environmental clearance by The Ministry of Environment & Forests, Govt. of India. Copies of the clearance are available with Maharashtra Pollution Control Board and on ministry web site <http://envfor.nic.in>

नवशक्ति, मुंबई, शनिवार ३० जून, २००७

जाहीर सूचना

भारत सरकारच्या वन व पर्यावरण
मंत्रालयाने आय. जी. पेट्रोकेमिकल्स
लि. टी. २, एम. आय. डी. सी.
ता. तालाजा - ४१०२०८ लि. रायगड
जिल्ह्यास वारखेच्या निमित्त
यंत्रसुधारणा व त्यामुळे होणाऱ्या
उत्पादन वाढीस मान्यता दिली आहे.
मान्यताचे महाराष्ट्र इंधन नियंत्रण
मंडळ व वन / पर्यावरण मंत्रालयाचे
वेबसाईट - <http://envfor.nic.in>
वरील उपलब्ध आहे.

PUBLIC ANNOUNCEMENT

The Proposed Expansion of Petrochemicals and synthetic organic chemicals manufacturing facility at Plot No. T-2, Talaja Industrial Area, MIDC Talaja, 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/online/researchmodl.aspx?pid=ECAmendgrnt>

I G Petrochemicals Ltd.
Authorized Signatory

८

नवशक्ति

मुंबई, शनिवार, ३ मार्च २०१८

जाहीर नोटीस

सर्व संबंधितांना माहिती देण्यात येते की, प्लॉट क्रमांक टी-२, तळोजा एम.आय.डी.सी., जिल्हा रायगड, महाराष्ट्र येथील आय. जी. पेट्रोकेमिकल्स लि. द्वारे प्रस्तावित प्रकल्प, कृत्रिम सैद्ध्य रासायनिक उत्पादन सुविधेच्या संबंधित असून या प्रकल्पाला पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार (MoEF & CC) समितीने संमती सदर्थ अक्षर क्र. J-11011/73/2016-IA-II (I), दिनांक २० फेब्रुवारी २०१८ प्रमाणे दिली आहे. सद्य पर्यावरणीय समिती पत्राची प्रत महाराष्ट्र प्रदूषण निबंधन मंडळाकडे तसेच मंत्रालयाच्या पर्यावरणीय विभागाकडे <http://environmentclearance.nic.in/online/researchmodl.aspx?pid=ECAmendgrnt> या संकेत स्थळावर उपलब्ध आहे.

आय. जी. पेट्रोकेमिकल्स लि.
अधिकृत सहीधारक

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpafaru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E).
Mumbai - 400 022

Consent order No :- Formate 1.0/ BO/CAC-Cell/ UAN No 30425/2nd CAC/ 1806000105
Date- 02/06/2018

To,
M/s I.G. Petrochemicals Ltd.
Plot No. T-1 & T-2, Talaja Industrial Area,
MIDC Talaja, Tal- Panvel,
Dist: Raigad-410208.

Subject: Renewal of Consent to Operate of Plot No T-2 with amalgamation of
Consents of Plot No T-1 & T-2 under RED category.
Ref : 1. Earlier Consent granted vide no. Formate 1.0/BO/CAC-Cell/EIC No NM-
5370-14/1st CAC/4700 dtd. 24.04.2015 valid upto-28.02.2018.
2. Earlier Consent granted vide no. Formate 1.0/BO/CAC-Cell/UAN No
10674/6th CAC/1704001234 dtd. 28.04.2017 valid upto-30.06.2021.
3. Your application approved in CAC meeting held on 05.05.2018.

Your application UAN No 30425
Dated: 18.07.2017.

For: Renewal of Consent to Operate of Plot No T-2 with amalgamation of
Consents of Plot No T-1 & T-2 under Section 26 of the Water (Prevention & Control of
Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of
Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous & Other
Wastes (M & TM) 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 is granted for a period from 28.02.2018 to 31.08.2021.
2. The actual capital investment of the industry is Rs.795.36 Crs. (As per C.A.
Certificate submitted by industry)[Existing CI (plot T-2) Rs 664.99 Crs+(plot T-1)
Rs 89.11 Crs+ Increase in CI Rs 41.26 Crs]
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1	Phthalic Anhydride	169110MT/A
2	Benzoic Acid	1000 MT/A
3	Power (Exported to Grid)	2.5 MW
4	Maleic Anhydride(MA)	6500 MT/A

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	670.00	As per Schedule -1	CETP
2.	Domestic effluent	16.00	As per Schedule -1	CETP

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler -3 Nos	1 (No.)	As per Schedule -II
2.	Process vents	3 (Nos.)	As per Schedule -II
3.	DG set	1 (No.)	As per Schedule -II
4.	HT oil Heater	2 (Nos.)	As per Schedule -II
5.	De-dusting vents-PA Plant	3 (Nos)	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biological Sludge from ETP	20 MT/M		Landfilling
2	Other debris like insulation, packaging materials etc	6 MT/M		CHWTSDF

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Still bottom from distillation	1.2	4055.80	MT/A	N.A	Use as fuel heater
2	Discarded container/barrels/liners	33.1	190	Nos/A	N.A	Washed and reuse
3	Discarded bags used for hazardous chemicals	33.1	8.7	MT/A	N.A	Washed and reuse
4	Chemical Sludge from water treatment	35.3	18.0	MT/A	N.A	Sent to CHWTSDF
5	Spent Carbon	36.2	23.7	MT/A	N.A	Sent to CHWTSDF
6	Ash from incineration of hazardous waste	37.2	9.5	MT/A	N.A	Sent to CHWTSDF
7	Spent catalyst and molecules sieve	1.6	80.0	MT/A	N.A	Sent to CHWTSDF
8	Used oil/spent Oil	5.1	35.0	MT/A	N.A	Sale CPCB/MPCB authorized reproprocessors
9	Discarded asbestos	15.2	43.0	MT/A	N.A	Sent to CHWTSDF
10	Organic Residue (from cleaning of wash/residue storage tanks)	1.4	36	MT/A	NA	Sent to CHWTSDF
11	E-waste(IT/Telcom, electrical, electronic etc)	-	600	Kg/M	NA	Authorized recycle

12	Biomedical Waste	1,2,3,4,6,7	12	Kg/M	NA	CBMWTSDf
13	Plastic waste	-	500	Kg/M	NA	Authorized recycle
14	Battery waste	-	100	Nos/M	NA	Sent Back to manufacture

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. The applicant shall install online continuous stack emission monitoring system and online effluent quality monitoring systems at the outlet of effluent treatment plant for measurement of consented parameters & to connect and upload the online emissions and effluent monitoring data at MPCB and CPCB server.
11. This consent is issued by overriding consent No BO/CAC-Cell/UAN No 10674/6 th CAC/1704001234 dtd. 28.04.2017 valid upto-30.08.2021
12. This consent is issued pursuant to the decision of the Consent Appraisal Committee held on 05.05.2018

For and on behalf of the
Maharashtra Pollution Control Board

(P K Mirashe)

Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD/TRN No.	Date	Drawn On
1	66,28,688/-	UBINH173 33450526	29.11.2017	Union Bank Of India

After requisite fees to grant this consent upto- 31.08.2021, the fees of Rs 9,86,168/- is remain balance with the Board and same shall be considered at the time further renewal in future.

Copy to:

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

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Combined Effluent Treatment Plant (ETP) with the design capacity of 709 CMD.

B] The Applicant shall operate the combined 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	Standards as per EP Act, 1986
		Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Total Dissolved Solids	2100
05	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
06	Suspended Solids	100
07	COD	250
08	Chloride	1000
09	Sulphate	600
10	TAN	50

C) The treated effluent shall be recycled to maximum extent and remaining treated effluent shall be disposed into CETP.

D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

- 2) 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/and extension or addition thereto.
- 3) 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.

- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I 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	3552.0
2.	Domestic purpose	18.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	655.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00.0
5.	Gardening	10.0

- 5) 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/ Environmental Clearance / CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

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

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Vent scrubber (3 nos)	Stack	50.0 (Each)	N.A	N.A	N.A	N.A
2	Boiler-3 Nos	Stack	55.0 (common)	F.O.	27 MT/D	4	900
3	Hot oil heater (2 Nos)	Stack	31.0 (Each)	FO + Distillation residue	FO- 4 MT/D + 7 MT/D	4	800
4	D.G.Set (2000 KVA)	Stack	15.0 (above the roof)	HSD	8.30 MT/D	1	166
5	De-dusting vents-PA Plant-3 Nos	Bag Filters	12.0 each	N.A	N.A	N.A	N.A

- 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.
- Standards for Emissions of VOC Pollutants:

Sr. No	Petrochemical process / compounds	Maximum emission limit (mg/Nm ³) dry basis.
1	MA, PA, Phenol	20
2	Ethyl, benzene (EB), Styrene, Toulene, Xylene, Aromatics, EG, PG	100
3	Non-methane HC (paraffin), Acetone, olefins	150

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

Particulate matter	Not to exceed	150 mg/Nm ³ .
SO ₂ Process	Not to exceed	50 ppm
NO _x	Not to exceed	50 ppm

- 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.
- 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).

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	C2O	Rs. 15 Lakh	Within 15 days from the date of issue of consent	O & M of pollution control system	31.08.2021	31.12.2021

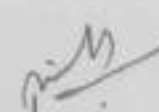
- The existing BG/BG's if submitted towards same purpose may be extended upto- 31.12.2021.

Schedule-IV

General Conditions:

- 1) 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.
- 2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) The firm shall submit to this office, the 30th day of September every year, the Environmental 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.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous & Other Wastes (M & TM) Rules 2016, which can be recycled
- 9) /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.
- 10) The industry should comply with the Hazardous & Other Wastes (M & TM) Rules 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 13) 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).
- 14) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 15) 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.

- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 17) 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.
- 18) 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 siting 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 MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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 be downloaded from MPCB official site).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.



28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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Maharashtra Pollution Control Board

ANNEXURE XVIII

Activities Proposed under CER

Types of Proposed Social Development Activities	Budget in Rs. lakhs
Educational	
schools, colleges, facilities such as hostel, scholarship, educational aids, donations for infrastructure such as computers, laboratory equipment	75.0
Medical / Health	
Health and hygiene awareness camps, health check-up camps	30.0
Environmental activities	
Tree plantation , sapling distribution ,rain water harvesting in surrounding villages	75.0
Social sector	
Solar energy projects likes power supply for lighting,computers etc in schools and Virdhasharm	70.0
Total	250.0



EXTRA

IG PETROCHEMICALS LIMITED

Date: 16th November, 2018

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 vide clearance no.

- 1) J-11012/78/96-IA dated 20th June 1997
- 2) J-11013/14/2007-IA II (I) dated: 12th June, 2007
- 3) J-11011/994/2007/IA (II) I, Dated: 03.12.2009
- 4) J-11011/73/2016-IA-II (I), Dated : 18th July, 2017 & amendment in same is received on 20th February 2018

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 2018 - September 2018. We hope the above is to your satisfaction.

Thanking You,

Yours faithfully
FOR I. G. PETROCHEMICALS LTD

J K SABOO
EXECUTIVE DIRECTOR

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, Subhanpura, Vadodara- 390023.





I G PETROCHEMICALS LIMITED

Date: 16th November, 2018

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

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Yours faithfully
FOR I. G. PETROCHEMICALS LTD

J K SABOO
EXECUTIVE DIRECTOR

CC to:

पर्यावरण, वन एवं जलवायु परिकर्तन मंत्रालय
Ministry of Environment, Forest & Climate Change
केन्द्रीय कार्यालय (पश्चिम मध्य क्षेत्र)
Regional Office (Western Central Zone)
पृथ्वी, पूर्व खंड / Ground Floor, East Wing
नया सचिवालय भवन / New Secretariat Building
सिविल लाइन्स / Civil Lines
नागपुर / Nagpur - 440 001

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, Plot No. 10, Subhanpura, Vadodara- 390023.

ETGWH13P0021N IVR:6Y060WY15185
OF JAGPETH-00 (110001)
Counter No: 1, 24/11/2018, 12:52
To: CENTRAL POLLUTION BOARD,
PLOT NO. 10, SUBHANPURA GU
From: IGPL, NO
M: 110001
Ret: 106.20 (Cash) Tax: 16.20
(Track on www.indiagpetro.com)
(Fax) 1888 266 0260



Ref	PA-I EXPANSION 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 -----

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

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

Product	As per Environmental Clearances	As per Consent to Operate (2018)	Actual Production April2018-September2018	Remarks
Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA	169110MT/A	80900 MT	• We are well within the prescribed limit of EC & Consent
Benzoic Acid	1000 MT/A	1000 MT/A	372 MT	
Power (Exported to Grid)	2.5 MW	2.5 MW	NIL	

Compliance to the conditions stipulated under Environmental Clearance granted by the Ministry of

Environment & Forest, Government of India vide letter No. J-11013/14/2007-IAll (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 reduce from 375.6 kg/hr to 366.50 kg/hr for PA-I and from 398.3 kg/hr to 336.40 kg/hr for PA-II. This will reduce the TOC in the scrubber outlet as inlet load will be reduced. Total DM water usage will be reduced from 3816 m ³ /hr to 3600 m ³ /hr due to reduced organics levels in the off gases.	<p>We are regularly monitoring Air pollution through MoEF recognized laboratory. TOC monitoring reports for april-sept2018 are enclosed under ANNEXURE -II.</p> <p>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</p>
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 /minth.	<p>Yes, Agreed. The total water consumption and effluent generation are under the consented quantities.Data on Actual Water Consumption & Waste Water Generation for April2018-September2018 period is enclosed as ANNEXURE - III</p>
iii.	There will be no change in the quantity of distillate residue generated. It will be	<p>Yes, Agreed. Data on Residue Generation April2018-September2018 period is enclosed</p>

	disposed off as per the authorization from MPCB.	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
vi.	Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained	Yes, Noted. Work zone monitoring reports for April2018-September2018 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 April2018-September2018 are enclosed as ANNEXURE - II
ix.	The company shall strictly follow all the relevant guidelines of CPCB given from time to time.	Agreed / Is being done
x.	25% of the total land area will developed as green belt.	Yes, we have developed green belt in company premises. Plan showing Green Belt enclosed as ANNEXURE - VII .



xi.	The company shall harvest surface as well as rainwater from the rooftops of the building proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Yes, we have installed rainwater harvesting at two locations and these are in operation. This year we have recovered total of 3000 m3 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.	<p>Yes, regular Occupational Health surveillance of the workers is carried out regularly as required under Factories act. A copy of form-VII Annual Medical Examination report of Workers is enclosed as <u>Annexure-VIII A & Annexure VIII</u></p> <p>Company has well equipped Occupational Health center (OHC) with two beds located in its admin building.</p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year.</p>

B.	General Conditions:	
i.	The project authority must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and State Government.	<p>Yes agreed. We have received Consent to Operate from Maharashtra Pollution Control Board vide no. Formate 1.0/ BO/CAC-Cell/UAN No. 30425/2nd CAC/1806000105 Dated: 02/06/2018, Copy of same is enclosed as ANNEXURE - XV.</p>

ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
iii.	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four Ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the SPCB. It will be ensured that at least one monitoring station is set up in up-wind & down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and SPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.	We are regularly monitoring Ambient Air Quality Monitoring through MoEF recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB. Same are undertaken at industry premises and nearby villages. Ambient Air Monitoring Reports for April2018-September2018 period are enclosed as ANNEXURE - II
iv.	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.	We are regularly monitoring effluent quality through MoEF recognized laboratory. Effluent monitored at intermediate stages of ETP. Inlet / Outlet of ETP monitoring Reports for the period April2018-September2018 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 OPEMS DASHBOARD



v.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st 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 April2018-September2018 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 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 the period April2018-September2018 are enclosed under ANNEXURE - II showing compliance to in plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vii.	Proper House Keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.	<p>Yes, proper hours keeping and adequate occupational health programs are taken up regularly. Occupational Health surveillance of the workers is carried out regularly as required under Factories act. Company has well equipped Occupational Health center (OHC) with two beds located in its admin building. Details of OHC provided at site are enclosed as <u>Annexure-VIII</u>.</p> <p>Company has a program of pre and post (periodic) medical checkups whereby all workers in hazardous operations are tested twice a year. Note on Occupational health surveillance program enclosed as</p>

		ANNEXURE - VIII
viii.	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.	Environment Management looked after by Vice President , directly reporting to Executive Director. Separate team under Dy Gen Manager (SHE) looks after safety ,health and environment related compliance.
ix.	Separate funds will be earmarked for the environmental protection measures and shall be used judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Yes, we have provided separate funds for Environmental Protection Measures and we affirm that same will not be diverted for any other purpose, Budget for Environment Protection is enclosed as ANNEXURE - IX
x.	Concerned Regional Office of this Ministry / SPCB / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	Yes, we are regularly submitting six monthly compliance report to the ministry / SPCB / CPCB. Please refer ANNEXURE - V for last submitted six monthly compliance report.
xi.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be	Yes, we have advertised in two local newspapers in vernacular language's such as Marathi at Navshakti & in English at Free Press Journal. Copy of advertisement is enclosed as ANNEXURE - X.



	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.	
xii.	The project authority shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Not applicable as production change worked out on the basis of changing over to a high yield catalyst.
	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Yes, Agreed.
	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.	Yes. Noted.



Ref	PA-II EC No.J.11012/78/96-IA-II Dated 20 th 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.	Combined Consent to Operate /Authorization from MPCB is obtained for existing units including expanded PA - III plant (ANNEXURE - XV).
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Yes, agreed. For further expansion (installation of new plants of Phthalic Anhydride/Maleic Anhydride/benzoic acid) we have received EC No J-11011/73/2016-IA-II(I) dated 18 th July 2017. We have also received Consent to Establish for the same from Maharashtra Pollution Control Board REF ANNEXURE XX
iii.	The gaseous emission from the various process units should adhere to the air emission standards specified in Part D, Schedule VI of Environmental (Protection) Second amendment and Rules, 1993. For boiler stack the EPA norms as per Notification dated 27th February, 1996 should be complied. In case the standards stipulated	Regular stack / vent monitoring is being carried out through MoEF recognized lab. We have also provided online monitoring system which is linked directly with CPCB /MPCB server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD

	by SPCB are more stringent than the EPA norms, the industry should follow the above. At no time the emission should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit the respective unit should <i>be</i> immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency.	
iv.	<p>Ambient- Air quality monitoring stations should be set up in the downwind direction as well as at location- where 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.</p> <p>Stack emissions from the process and boilers and incinerator should be monitored for SO₂, NO_x and SPM and record maintained. It is observed that SO₂ concentration in the ambient air is 64 microgram per cubic meters. This along with emission from the plant is expected to exceed ambient air quality standards.</p> <p>In view of the above, project proponent should provide necessary enhancement/changes in stack design to ensure that SO₂ level in the ambient air is maintained within the stipulated norms.</p> <p>Data on ambient air quality and stack emission from boiler should be submitted to this Ministry once in six months</p>	<p>Yes, the ambient air quality monitoring is carried out regularly in existing plants and same practice will be continued in future. REFER ANNEXURE II</p> <p>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</p> <p>The ambient air quality data is submitted along with 6 monthly EC compliance report. REFER ANNEXURE II</p>



	along with the statistical analysis and interpretation.	
v.	Storage of solvents should be in accordance with the prescribed safety norms. Fugitive emissions should be prescribed safety norms. Fugitive emissions should be controlled, regularly monitored and data recorded. The monitored data should be submitted to this Ministry once in 6 months for review	Major Raw Material is o-Xylene which is liquid in nature. Stored in Storage tanks with sprinklers arrangement. The installation is approved by CCOE .Photograph showing designated storage area for storage of raw material: o-Xylene are enclosed as ANNEXURE - VI
vi.	The existing ETP facilities should be upgraded by providing tertiary treatment facilities to ensure that the existing discharges meet the norms stipulated by the SPCB/MINAS. Further, as indicated in the BMP, a new ETP should be provided to treat the additional effluent load after the expansion. The treated effluent should meet the norms prescribed norms under Gazette Notification dated 2.4.96 Specifically BOD (3 days at 27 C) shall be 30 mg/l if discharged directly to a freshwater body. Bioassay test must be carried out to meet 90% survival after 96 hrs. in 100% effluent. Test shall be carried out as per ist6582-197i. 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 otified under the Environment (Protection) Rules, 1986.	<p>The ETP plant was revamped in the years 1998 (incorporating tertiary treatment) and also subsequently in the year 2013to treat the additional load from the expansion before commissioning the Phase III plant. A guard pond is already provided in existing ETP. Bioassay test is already carried out on our effluent through MOEF recognized third party. Company is already a Member of CETP .Effluent after treatment is disposed to CETP as per MPCB norms as specified in CTO .</p> <p>The note on revamping of ETP is enclosed as ANNEXURE - XI.</p> <p>For the ongoing expansion ETP is further under upgradation 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 m3/day to 221 m3/day as stipulated in expansion CTE.</p>



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 respective units should be immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Holding tanks with total capacity 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 once a year 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.
xi	The ground water quality around the guard ponds should be monitored on a regular basis. The monitored data should be submitted to this Ministry once in six months and to the SPCB and State Ground Water Board once in three months	



xii	The hazardous wastes should be handled r&S 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 plans which are 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 check up of the workers should be done and records maintained as a measure to provide occupational health service to the workers.	Yes, it is carried out regularly in existing plants. 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 ANNEXURES - VIII & VIIIA 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. For medical reports refer ANNEXURE VIIIA



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.	Environment Laboratory is set up in ETP to look after performance monitoring of ETP. All other sampling and analysis is outsourced from MoEFF&CC approved laboratories. The supervision is done by qualified environment manager who reports to Vice President Production (who in turn reports to Executive Director of the company).
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 Organisation.	Environment Management looked after by Vice President (Production), Manager (Env) and directly reporting to Executive Director. Separate Safety Officer looks after Safety related compliances
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



nRef	EC No. J-11011/994/2007/1 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-11011/994/2007/1 A dated 03.12.2009.

It is noted that water requirement will increase 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.

The water requirements and effluent generation are within stipulated limits. REFER ANNEX III for water consumption and effluent generated during period April 2018-Sept 2018. 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.

A. SPECIFIC CONDITIONS:

- | | |
|---|--|
| <p>i) The Company shall install full-fledged ETP to treat the process effluent and treated effluent after primary, secondary and tertiary treatment and conforming 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.</p> | <p>The existing ETP plant is revamped 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.</p> |
| <p>ii) Process emissions in the form of HCl and TOC shall be controlled by installation of scrubbers. The company shall provide</p> | <p>Process emissions are controlled by three stage scrubbers. Provision shall be made of sampling port hole and monitoring is being done. DG sets</p> |



	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.	are provided with stack height of 31 m which is as per the Consent granted to our unit. Regular monitoring is carried out through MoEF recognized laboratory. 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, SO ₂ , NO _x & CO (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We are uploading compliance reports on our company web site (http://www.igpetro.com/quality#main-content). We shall file 6 monthly returns to various Authorities as stipulated. We are regularly monitoring ambient air quality and stack emissions from various stacks. Display Board as specified by Honorable Supreme Court is put up at our Gate. Please refer ANNEXURE - XII. & 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 or spent carbon should be incinerated.	Spent carbon is generated from ETP tertiary treatment process and thus unsuitable for burning in cement plants. Also, quantity generated is very small (10 TPA max) and there is no Cement plant in 500 km distance from our unit. Hence, we shall dispose this in CHWTSDF Taloja which is located in 2 km distance from our unit. Copy of MWML Membership Certificate is enclosed as ANNEXURE - XIII & Copy of Hazardous Waste Return submitted in form - IV for 2017 - 2018 is enclosed as ANNEXURE - XIV.
vi)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import	We shall abide by this strictly. The site details are submitted to the DISH as they are the prescribed authority under the MSIHC Rules. Combined



	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.	consent to operate / Authorization from MPCB for existing unit as well as expanded PA - III Plant is obtained & we have received renewal of same vide No. Formate 1.0/BO/CAC-Cell/UAN No.30425/2 nd CAC/1086000105 Dated: 02/06/2018 validity: 28.02.2018 to 31.08.2021 (ANNEXURE - XV). We shall abide by the conditions of the Authorization. All hazardous chemicals/wastes are transported as per MVA, 1989 and through approved transporters of MPCB.
vii)	The project authority shall obtain the membership of TSDF for disposal of solid and hazardous waste and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.	Yes complied. We have membership with CHWTSDF at Taloja and regularly disposing off our hazardous waste from Phase I and Phase II plants to TSDF. Copy of the membership certificate enclosed as ANNEXURE - XIII.
viii)	The company shall develop in land area of 35685 sq. ft, as per the CPCB guidelines to mitigate the effect of fugitive emissions.	Green belt is developed on 36,000 sq. ft. of area within plot. Local species endemic to Konkan have been planted for green belt. Please refer ANNEXURE - VII for details of Green belt developed.
ix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yes, it is carried out regularly in existing plants. 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 ANNEXURES - VIII & VIIIA 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. For medical reports refer ANNEXURE VIIIA
x)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Complied- entire plant is covered by a hydrant system, which is provided with separate fire water reservoir and emergency pumps (diesel operated). Fire extinguishers are kept in various parts of the plant depending upon type of fire hazard likely.



xi)	The company shall comply with the recommendations made in the EIA/EMP and Risk Assessment Report	We are abiding by the recommendations in the EIA/EMP and Risk assessment study.
B.	GENERAL CONDITIONS:	
i)	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Combined Consent to Operate /Authorization from MPCB is obtained for existing unit as well as expanded PA - III plant (ANNEXURE - XV). We shall abide by the conditions of the Consent /Authorization and other stipulations.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alternations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Yes, agreed.
iii)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Yes, agreed.
iv)	The gaseous emissions (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 server for stack emissions as well as effluent. REFER ANNEXURE XVI FOR OCEMS DASHBOARD



iv)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the up wind and down wind directions as well as where maximum ground level concentrations are anticipated.	Yes, the ambient air quality monitoring is carried out regularly in existing plants will be continued. REFER ANNEXURE II
v)	The overall noise levels in and around the plant area shall kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989 viz. 75 dBA (day Time) and 70 dBA (night time).	Ambient and work place Noise level monitoring is carried out regularly in existing plants and same practice will be continued in future. We have taken all control measures as stipulated to control noise. REFER ANNEXURE II
vii)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management & risk mitigation measures relating to the project shall be implemented.	Yes agreed.
viii)	The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details
ix)	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Company is undertaking various community welfare measure for improvement of the environment as under: Refer ANNEX XVII for details



x)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environment Management looked after by Vice President, directly reporting to Executive Director. Separate team under Dy Gen Manager (SHE) looks after safety, health and environment related compliance. Environmental Laboratory Set up in ETP to look after performance monitoring of ETP, all other sampling outsourced.
xi)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule from all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Budget for Environment Protection as stipulated in the EIA has been used for environmental protection in expansion project.
xii)	The implementation of the project vis-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.	Yes- being done regularly.
xiii)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local body and local NGO, if any from whom suggestions / representations, if any were received while processing the proposal.	Yes -submitted to Ghot Grampanchayat.
xiv)	The project proponent shall also submit six monthly reports on the status of compliance of conditions stipulated E C conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and State Pollution Control Board.	Yes six monthly reports are being submitted regularly. 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 III PA plant is done. Benzoic acid recovery project which envisages recovery of benzoic acid from residue and waste water is installed and commissioned- copy of combined Consent to Operate for all units enclosed- ANNEXURE - XV
7)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Yes, above condition is noted.
8)	The Ministry reserves the right to stipulate additional conditions. If found necessary. The company is a time bound manner implements these conditions.	Yes, above condition is noted.
9)	Any appeal against this environmental clearance shall lie with the National Appellate Authority, if proffered within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.	Yes, Noted.
10)	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of pollution) Act, 1981, The	Yes, Noted.



	Environment Protection Act 1986, Hazardous Waste (Management & Handling) Rules, 2003/2008 and Public Liability Insurance Act, 1991 along with their amendments and rules.	
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Ref	EC No. J-11011/73/2016-IA-II (I), Dated : 18 th July, 2017 & amendment in same dated 20 th February 2018
To	IG Petrochemicals Ltd, T-2, MIDC Talaja
For	Expansion of Petrochemical and synthetic organic chemicals manufacturing facility
Status	Project is under detailed engineering and construction stage

Proposal is for expansion of petrochemical and synthetic organic chemicals manufacturing facility at Plot No. T-2, MIDCTalaja, 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 earlier Clearances	As per Consent to Operate (2018)
Phthalic Anhydride	PAI+PAII90000 MTPA PAI EXP 26110 MTPA PAIII 53000 MTPA	169110MT/A
Benzoic Acid	1000 MT/A	1000 MT/A
Power (Exported to Grid)	2.5 MW	2.5 MW
*Maleic Anhydride	6500 MT/A	6500A

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



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

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

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

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

OK. Above condition is noted.

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



		report of plants will be reported to RO, MoEF & CC in six monthly compliance reports. We are in the process of identifying various sites in nearby villages/locations where there is scope for implementing the tree plantation program.
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&C office memorandum F.No.22-65/2017-IA.III dated 1 st May 2018 REF ANNEXURE -I) of the total cost of the project will be earmarked towards Enterprise Social Commitment. Sufficient budgetary provision will be made for health improvement, education, water and electricity supply etc. at nearby villages. Budgetary allocation made towards ESC /CER is enclosed as ANNEXURE - XVIII
iii.	A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.	Yes, Qualified staff with post-graduation in Environmental Science / Environmental Engineering is appointed for environmental management activities.
iv.	The unit shall adhere to zero liquid discharge (ZLD) . As per EC amendment dated 20 th Feb 2018(ANNEXURE XIX) effluent discharge to CETP should be 220 m ³ /day	Yes, Agreed. Effluent generated from existing unit and proposed expansion will be treated and recycled within the plant for maximum extend & remaining treated effluent is restricted to 220 m ³ /day for final discharge to CETP. Upgradation involves installation MEE/RO for partial Effluent recycle. The upgradation project is at detailed engineering & construction stage.
v.	Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the	Yes, we have installed continuous online (24*7) monitoring system measurement for



	treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF & CC, CPCB and SPCB.	stacks emission& effluent. We have connected online continuous emission monitoring system to CPCB / MPCB Server and data is uploaded on company's website regularly. The same system will be extended in the upcoming expanded plants. Refer Annexure - XVI for OCEMS dashboard. 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, will be Complied with- entire plant will be covered by a hydrant system, which will be provided with separate fire water pump and emergency pumps (diesel operated) as per existing unit. Fire extinguishers will be kept in various parts of the plant depending upon type of fire hazard likely.
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yes, it is carried out regularly in existing plants. 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 ANNEXURES - VIII & VIIIA 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 as per factories act. For medical reports refer ANNEXURE VOLA



viii.	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	We are having necessary permissions for existing plants. We have already received consent to establish from MPCB(REF ANNEXURE XX)for the additional requirement from the expansion plants. We are member of CHW-TSDF REF ANNEXURE XII

B.	General Conditions:	
i.	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority.	Combined Consent to Operate /Authorization from MPCB is obtained for existing unit (ANNEXURE - XV). For expansion (installation of new plants of Phthalic Anhydride/Maleic Anhydride/benzoic acid) We have received Consent to Establish from Maharashtra Pollution Control Board REF 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. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Yes, agreed. No further expansion or modification in the plant will be carried out without prior approval from MoEF.
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We are regularly monitoring Ambient Air Quality Monitoring through MoEF recognized laboratory. Ambient Air Quality monitoring stations are set up as per guidelines of SPCB.. Ambient Air Monitoring Reports for last one year is enclosed as ANNEXURE - II



iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	Yes, Agreed.
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Yes, we have provided enclosures, hood etc. to ensure noise level is under control. Regular ambient Noise monitoring is carried out within the unit and at fence level. Same practice will be carried out for proposed expansion (PA- IV). All high noise generating sources are enclosed. Regular Noise Level monitoring undertaken. Reports for April18-Sept 18 period are enclosed under ANNEXURE - II showing compliance to in existing plant limits of 85 dBA and ambient noise std of 75 and 70 dBA.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Yes, We have installed rainwater harvesting at two locations and these are in operation. This year we have recovered total of 3000 m3 of rain water from these two locations.
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Yes, Training will be carried out of all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for regular basis.
viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA & EMP in respect of environmental management, risk	Yes agreed. All Environmental Protection measures will be carried out as per documents submitted to ministry.



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



xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/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 by-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 31- March in Form-Vas is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by email.	Yes, it is carried out regularly in existing plants and same practice will be adopted in expansion plant.
xvi.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/ Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of	Complied- advertisement was placed in media on obtaining the Environmental clearance. Copy of Advertisement published in local news paper is enclosed herewith as ANNEXURE- X



	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. Implementation of Phase – IV is under process. We will intimate to RO, MOEF for once implementation of project will be completed.
xviii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Yes, Noted.
xix	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Yes, Agreed.
xx.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Yes, Noted.



ANNEXURE II

Ambient Air Quality Monitoring Reports							
Main gate							
Parameter	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Limiting Standard
Samplig Date	20/4/2018	17/05/2018	18/06/2018	16/07/2018	27/08/2018	28/9/2018	
SO2	10.9	11.8	10.6	10.3	11.5	12.4	80
NOX	13.6	14.1	12.2	11.1	13.9	15.3	80
PM10	57.4	58.1	56.2	50.6	57.2	61.2	100
PM2.5	18.3	18.2	18.5	18.4	19.2	20	60
Ozone [O3]	ND	ND	ND	BDL	BDL	BDL	180
CO	0.19	0.22	0.14	0.11	0.15	0.17	4
DM Plant	Near ETP						
Parameter	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Limiting Standard
Samplig Date	20/04/2018	17/05/2018	18/06/2018	16/07/2018	27/08/2018	28/09/2018	
SO2	10.8	13	10.7	10.8	12.2	12.4	80
NOX	13.3	15.5	12.3	11.1	14.6	15.8	80
PM10	57	57.1	55.7	51.9	59.1	62.5	100
PM2.5	18.5	18.1	19.3	19.7	20.2	20.4	60
Ozone [O3]	ND	ND	ND	BDL	BDL	BDL	180
CO	0.18	0.21	0.20	0.12	0.17	0.2	4
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

WORK ROOM EMISSION MONITORING REPORT AS PER GSR No.820 (E)								
Sr. No.	Parameter	Analysis Result						Limiting Standard
		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	
		Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	Phthalic Anhydride Plant	
		21/04/2018	16/05/2018	19/06/2018	17/07/2018	27/08/18	28/09/18	
1	VOC	BDL	BDL	BDL	BDL	BDL	BDL	20 mg/Nm ³
2	CO	0.08	0.04	0.08	0.06	0.1	0.13	-- ppm
3	TPM (mg/m3)	0.314	0.672	0.62	0.41	0.524	0.855	20 mg/Nm ³
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.								

ANNEXURE II

	Ambient Noise Level Monitoring Report											
Date	Apr-18		May-18		Jun-18		Jul-18		Aug-18		Sep-18	
	20/4/18		16/05/18		18/06/18		17/07/18		27/08/18		28/09/18	
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	63.9	59.4	64.2	63.1	63.8	59.2	64.8	57.3	64.8	58	65	57.8
L2	64.2	58.1	65.2	64.5	61.7	58.8	59.7	54.3	60.2	56.1	65.3	62.9
L3	61	56.8	68.1	67.1	58.2	56.7	57.8	55.9	58.8	54	72.2	68.2
L4	67.6	64	67.3	66.5	58.8	55.9	63.1	60.2	63.4	59.9	70.1	67.4
L5	70.3	69.3	68.1	67.4	68.1	66.7	74.2	69.8	69.7	65	72.5	69.1
L6	72.1	69.2	67.1	65.3	61.5	58.2	67.8	62.3	68.8	64.4	68.9	62.5
L7	71.2	68.4	65.6	64.2	64.7	62.8	69.5	60.5	64.2	62.1	70.8	68.6
Standard	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)	75 (*)	70 (*)
Within Plant :												
L8	67.2	66.2	72.3	63.1	69.8	67.2	74.3	72.8	72.8	68.1	70.1	67.4
L9	59.1	59.5	62.1	64.5	58.1	57.8	58	56.3	56.2	54.8	59.8	56.2
L10	73.8	70.3	75.4	67.1	67.9	65.5	85.9	82.3	68.1	63.4	66.3	63.9
L11	67.9	67.6	73.2	66.5	66.3	64.8	73.8	67.7	70.3	68.4	78.2	74.8
L12	68.8	61.8	68.1	67.4	67.6	63.5	68	62.5	67.3	62.6	71.1	68.7
L13	62.6	60.8	63.2	65.3	59.8	57.6	61.8	57.7	65	59.2	67	64.9
Standard	90 (#)		90 (#)		90 (#)		90 (#)		90 (#)		90 (#)	

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

(#) As specified by MOEF

Details of Location				
Location Code	Location Name			
Location 1	: Southern Boundary Near Main Gate			
Location 2	: Southern Boundary Opp. Canteen			
Location 3	: Western Boundary Near loading / unloading area			
Location 4	: Western Boundary Near Tank Farm			
Location 5	: Eastern Boundary Near Cooling Tower			
Location 6	: Eastern Boundary Near Boiler House			

Location 7	: Northern Boundary Near ETP		
Location 8	: Opp. Control Room		
Location 9	: Opp. Weigh Bridge		
Location 10	: Road Opp PA II Plant		
Location 11	: Road Opp DM plant		
Location 12	: Road Opp. TG Bldg		
Location 13	: Road Opp. Transformer		

ANNEXURE II

Noise Level Survey Report							
Location		Month					
		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
	Date	20/04/18	17/05/18	18/06/18	16/07/18	27/08/18	28/09/18
I Laboratory							
a)	Chemical Laboratory (middle table)	60.1	60.2	58.9	59.8	60.8	65.4
b)	Chemical Laboratory (last table)	59.2	62.3	60.1	59	62.9	64.9
c)	Changing room	57.2	57.1	62.3	57.8	65.3	66.8
d)	Officer cabin	58.1	56.9	57.7	56.8	58.5	51.2
e)	Instrumental Laboratories	61.5	63.8	57.2	62.7	57.3	53.6
f)	Micro Laboratories	0.0	0.0	0.0	0.0	0.0	0.0
II Operator cabin (Near PA II)							
a)	On table	65.9	68.2	58.4	63.2	66.7	65.5
III Store room							
a)	Near entrance	62.3	60.3	69.8	60.3	69.9	79
b)	Cabin for store supervisor	58	57.4	63.6	56.8	65.2	59.1
IV Engineering work shop							
a)	Near entrance	64	62.3	70.1	63.9	70.1	79.6
b)	Inside cabin on table	57.8	61.2	60.7	58.2	65.8	58.1
V 83.8							
a)	Near o-Xylene preheaters	82.9	82.1	68.9	83.8	68.7	70.2
VI Turbine room PA - I plant							
a)	Near turbine	83.8	80.5	75.4	81.5	89.2	89.2
b)	Compressor	84	78.3	76.2	82.6	87.8	88.5
VII Control Room							
a)	Door open	68.2	63.1	67.8	65.4	67.5	62.3
b)	Door closed	62	57.2	59.7	59.7	64.2	68.4
VII Utilities							
a)	Boiler room (Door open)	69.8	67.6	66.1	68.2	66.3	87.1
b)	(Door closed)	59.2	60.2	63	57.8	59.8	72.6
IX PA - II turbine room							
a)	Near air compressor	83	83.2	65.7	84.5	68.2	81
X PA - II plant							
a)	Near o-Xylene preheaters	85	84.1	67.5	85	69.5	58.9
XI PA plant flaker packing							
a)	Flaker panel Room (Door opened)	62.5	67.9	68.2	64.2	65.8	74.5
b)	Flaker panel Room (Door closed)	59.3	59.2	69.2	58.6	62.7	68.2
c)	Flaker Room	67	70.4	67.3	66.9	66.3	65.5
d)	Warehouse	66.8	72.3	65.4	62.7	65.8	62.8
XII Operator cabin (Near PA III)							
a)	Near air boiler	79.2	75.2	72.9	74.9	70.6	63.7
b)	Near turbine	80.1	75.4	73.4	82.5	71.8	66.1
c)	Near PA III	62.5	62.1	62.8	60.1	68.8	68.1
Limit as per Factory Act		90					
Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.							

ANNEXURE II

Drinking Water Analysis Report

Sr. No.	Location	18-Apr			18-May			18-Jun		
		20/04/2018			17/05/2018			18/06/2018		
		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	<u>potable</u>	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>
2	Canteen-2 (Contract Canteen)	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>
3	PA Control room	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>
4	Workshop	Absent	Absent	<u>potable</u>	-	-	-	Absent	Absent	<u>potable</u>
5	Instrumentation	Absent	Absent	<u>potable</u>	-	-	-	Absent	Absent	<u>potable</u>
6	Admin	Absent	Absent	<u>potable</u>	-	-	-	Absent	Absent	<u>potable</u>
7	LAB	Absent	Absent	<u>potable</u>	-	-	-	Absent	Absent	<u>potable</u>
8	MA Control Room	Absent	Absent	<u>potable</u>	-	-	-			
9	PA Bagging Section	Absent	<u>potable</u>	<u>potable</u>				<u>potable</u>	Absent	<u>potable</u>

Sr. No.	Location	18-July			18-Aug			18-Sep		
		16/07/2018			27/08/2018			28/09/2018		
		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	<u>potable</u>	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>
2	Canteen-2 (Contract Canteen)	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>
3	PA Control room				Absent	Absent	<u>potable</u>			
4	Workshop				Absent	Absent	<u>potable</u>			
5	Instrumentation				Absent	Absent	<u>potable</u>			
6	Admin				Absent	Absent	<u>potable</u>			
7	LAB				Absent	Absent	<u>potable</u>			
8	MA Control Room				Absent	Absent	<u>potable</u>			
9	PA Bagging Section	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>	Absent	Absent	<u>potable</u>

ANNEXURE II

WORK ROOM AIR MONITORING

Location	18-Apr	
	20/04/2018	
	Ortho	Phthalic
Phthalic Anhydride-I		
Near Ortho xylene pre heater	ND	ND
Phthalic Anhydride II		
i) Near Ortho xylene pre heater	ND	ND
Phthalic Anhydride Bagging Area		
i) Flaker Area ABC	0	0.01
ii) Flaker Area D & E	0	0.01
Phthalic Anhydride-III		
i) Near Ortho xylene preheater.		
Limiting Standards		
NIOSH		
TLV(TWA)	100	1
STEL	150	--
ACGIH		
TLV(TWA)	100	1
STEL	150	--

Location	18-May	
	15/05/2018	
	Ortho xylene	Phthalic
Phthalic Anhydride-I		
Near Ortho xylene pre heater	0.065	ND
Phthalic Anhydride II		
i) Near Ortho xylene pre heater	ND	ND
Phthalic Anhydride Bagging Area		
i) Flaker Area ABC	0	0.03
ii) Flaker Area D & E	0	0.02
Phthalic Anhydride-III		
i) Near Ortho xylene preheater.		
Limiting Standards		
NIOSH		
TLV(TWA)	100	1
STEL	150	--
ACGIH		
TLV(TWA)	100	1
STEL	150	--

Work Room Air Monitoring Reports			
Location	2018 - June		
	18/06/18		
	SO ² ppm	NOx ppm	SPM mg/m ³
Phthalic Anhydride Ware House	0.011	0.013	0.14
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Work Room Air Monitoring Reports			
Location	2018 -July		
	16/07/18		
	SO ² ppm	NOx ppm	SPM mg/m ³
Phthalic Anhydride Ware House	0.01	0.011	0.125
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Work Room Air Monitoring Reports			
Location	2018 - Aug		
	27/08/18		
	SO ² ppm	NOx ppm	SPM mg/m ³
Phthalic Anhydride Ware House	0.012	0.015	0.152
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Work Room Air Monitoring Reports			
Location	2018 -Sept		
	28/09/18		
	SO ² ppm	NOx ppm	SPM mg/m ³
Phthalic Anhydride Ware House	0.01	0.012	0.141
Limiting Standards			
NIOSH			
TLV(TWA)	2	--	--
STEL	5	1	--
ACGIH			
TLV(TWA)	2	3	10
STEL	5	5	--

Date	Apr-18	May-18	Jun-18	Jul-18	18-Aug	18-Sep	Limiting Standard (*)
	21/04/18	17/05/18	18/06/18	16/07/2018	08-11-18	28/09/2018	
pH	7.09	8.33	8.46	6.74	8.06	8.22	5.5 to 9.0
Suspended Solids	40	46	40	64	44	40	not to exceed 600
Biochemical Oxygen Demand	180	60	137	69	80	242	not to exceed 350
Chemical Oxygen Demand	72	22	52	20	30	86	not to exceed 250
Oil & Grease	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 20
Ammonical Nitrogen as N	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 50
Vanadium as V	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 0.2
Arsenic as As	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 0.2
Mercury as Hg	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 0.01
Lead as Pb	BDL	BDL	BDL	BDL	0.72	BDL	not to exceed 1.0
Cadmium as Cd	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 1.0
Iron as Fe	0.4	0.3	0.26	0.76	0.85	1.39	not to exceed 3.0
Cr⁶⁺	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 2.0
Total Chromium as Cr	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 2.0
Copper as Cu	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 3.0
Zinc as Zn	BDL	BDL	BDL	BDL	0.02	BDL	not to exceed 15
Selenium as Se	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 0.05
Nickel as Ni	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 3.0
Cyanide as CN⁻	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 2.0
Fluoride as F	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 15
Phenolic compounds as C₆H₅OH	BDL	BDL	BDL	BDL	BDL	0.12	not to exceed 5.0
Manganese as Mn	BDL	BDL	BDL	BDL	BDL	BDL	not to exceed 2.0
Bio-assay	90% survival of fish after 96 hr in 100%	90% survival of fish after 96 hr in 100%	90% survival of fish after 96 hr in 100%	90% survival of fish after 96 hr in 100%	90% survival of fish after 96 hr in 100%	90% survival of fish after 96 hr in 100%	90% survival of fish after 96 hr in 100% effluent

survival

(*) 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 @ 27⁰C.

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Stack Emission Monitoring Reports
Boiler Stack Emission Monitoring -PA I (2-no.)

Physical Data:						
Stack Height (m)	55 m	55 m	55 m	55 m		
Inside Diameter (m)	2.5 m	2.5 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		
Flue Gas Temperature (°C)	136°C	138°C	139°C	165°C		
Velocity m/sec	3.76 m/sec	3.94 m/sec	3.11 m/sec	3.32m/sec		
Flow m ³ /hr.	5236/9.42 Nm ³ /hr.	5460/9.43 m ³ /hr.	4301/4.71 m ³ /hr.	43151.81 m ³ /hr.		
Fuel Used	Furnace Oil	Furnace Oil	Furnace Oil	Furnace Oil		
Fuel Quantity	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)	27 MTPD (maximum)		
Date	Apr-18	May-18	Jun-18	Jul-18	18-Aug	18-Sep
	21/04/2018	16/05/2018	18/06/2018	28/07/2018	27/08/2018	28/09/2018
TPM (mg/Nm3)	118.48	79.4	88.6	122.6	100.3	114
SO ₂ (kg/day)	185.6	131.9	125.8	20.41	22.6	24.2
NO _x (ppm)	39	32	28	40	44	42

#Note: The boiler is used during initial production process hence analysis reports of stack emission is available for one month only
(*) Amount of SO₂ is calculated for 24 hours but the actual emission quantity is much less depending upon duration of operation.
ND - Not Detected

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.

Heater Stack Emission
Monitoring - PA I

Physical Data:						
Stack Height (m)	31 m	31 m	31 m	31 m	31 m	
Inside Diameter (m)	0.5 m	0.5 m	0.5 m	0.5 m	0.5 m	
Stack Area (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)	203°C	190°C	185	188	194	
Velocity m/sec	8.92 m/sec	8.21 m/sec	9.57	7.56	6.77	
Flow m ³ /hr.	3940.33 Nm ³ /hr.	3665.19	4401.96	3452.62	3052.1	
Fuel Used	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	
Date	Apr-18	May-18	Jun-18	Jul-18	Aug-18	18-Sep
	21/04/2018	16/05/2018	18/06/2018	17/07/2018	28/08/2018	28/09/2018
TPM (mg/Nm3)	105.3	108.6	112.3	128.3	122.1	118.3
SO ₂ (kg/day)	85.9	54.2	15.9	18.6	14.3	12.8
NO _x (ppm)	35	34	32	34	36	34
CO (%)	0.41	0.52	0.42	0.28	0.2	0.18
CO ₂ (%)	12.7	12.2	12.4	13.2	13.4	13.5

Heater Stack Emission

Monitoring - PA II

Physical Data:						
Stack Height (m)	31 m	31 m	31 m	31	31	31
Inside Diameter (m)	0.6 m	0.6 m	0.6 m	0.6	0.6	0.6
Stack Area (m ²)	0.2826 m ²	0.2826 m ²	0.2826 m ²	0.2826	0.2826	0.2826
Flue Gas Temperature (°C)	192°C	192	187	192	191	152
Velocity m/sec	6.12 m/sec	6.1	3.88	7.69	6.47	4.98
Flow m ³ /hr.	3906.14 Nm ³ /hr.	3977.11	1775.58	3481.78	2935.72	2466.99
Fuel Used	FO + Residue	FO + Residue	FO + Residue	FO + Residue	FO + Residue	FO + Residue
Fuel Quantity	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD	4 MTPD + 7 MTPD
Date	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
	21/04/2018	16/05/2018	18/06/2018	17/07/2018	28/08/2018	28/09/2018
TPM (mg/Nm3)	137.2	116.3	132.5	118.6	101.5	112.3
SO ₂ (kg/day)	132.21	39.8	34.1	42.3	36.8	42.1
NO _x (ppm)	34	28	26	34	38	28
CO (%)	0.46	0.32	0.32	0.2	0.2	0.28
CO ₂ (%)	13.1	13.8	13.2	13	13.3	12.6

Scrubber Stack Emission

Monitoring - PA I

Physical Data:						
Stack Height (m)	50 m	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)	1.7 m	1.7 m	1.7 m	2.0 m	2.0 m	2.0 m
Stack Area (m ²)	2.269 m ²	2.269 m ²	2.269 m ²	3.14 m ²	3.14 m ²	3.14 m ²
Flue Gas Temperature (°C)	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
Velocity m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec
Flow m ³ /hr.	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr
Date	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
	21/04/2018	16/05/2018	18/06/2018	16/07/2018	27/08/18	28/09/2018
Volatile Organic Acids (mg/Nm3, 10°C)	64	62	60	64	62	60
SO ₂ (ppm)	2.9	12.1	14.2	38.6	32.8	13.2
N.D. : Not Detected						

Scrubber Stack Emission

Monitoring - PA II

Physical Data:						
Stack Height (m)	50 m	50 m	50 m	50 m	50 m	50 m
Inside Diameter (m)	1.7 m	1.7 m	1.7 m	1.7 m	1.7 m	1.7 m
Stack Area (m ²)	2.269 m ²	2.269 m ²	2.269	2.269	2.269	2.269
Flue Gas Temperature (°C)	34 °C	34 oC	34 °C	34 oC	34 °C	34 °C
Velocity m/sec	5.2 m/sec	5.2	5.2 m/sec	5.2	5.2 m/sec	5.2 m/sec
Flow m ³ /hr.	58780.8 m ³ /hr	58780.8	58780.8 m ³ /hr	58780.8	58780.8 m ³ /hr	58780.8 m ³ /hr
Date	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
	21/04/2018	16/05/2018	18/06/2018	16/07/2018	28/08/2018	28/09/2018
Volatile Organic Acids (mg/Nm3, 10°C)	60	62	60	62	64	60
SO ₂ (ppm)	6.56	16.2	11.6	28.4	26.2	22.6

Scrubber Stack Emission

Monitoring - PA III

Physical Data:						
Stack Height (m)	50 m	50 m	50 m	50 m	50 m	
Inside Diameter (m)	1.7 m	1.7 m	1.7 m	1.7 m	1.7 m	
Stack Area (m ²)	2.269 m ²	2.269 m ²	2.269	2.269	2.269	
Flue Gas Temperature (°C)	35 °C	35 oC	35 °C	35 oC	35 °C	
Velocity m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	5.2 m/sec	
Flow m ³ /hr.	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	58780.8 m ³ /hr	
Date	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
	21/04/2018	16/05/2018	18/06/2018	16/07/2018	27/08/2018	28/09/2018
Volatile Organic Acids (mg/Nm3, 10°C)	48	52	54	62	58	46
SO ₂ (ppm)	14.2	16.1	15.6	18.9	22.4	18.6

Monitoring & Analysis by Aditya Environmental Services Pvt. Ltd.



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

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

FORM FOR FILING ANNUAL RETURNS

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

1. Name of the generator/operator of facility

I. G. Petrochemicals Ltd.

Address of the unit/facility

Plot T-2, MIDC Taloja, MIDC Industrial Area Panvel, Navi Mumbai- 410208.

1b. Authorization Number

Formate 1.0/BO/CAC-Cell/EIC No. NM-5370-14/1st CAC/4700

Date of issue

Apr 24, 2015

2. Name of the authorised person

MR. J. K. Saboo (Executive Director)

Full address of authorised person

Plot T-2, MIDC Taloja, MIDC Industrial Area Panvel, Navi Mumbai- 410208

Telephone

2239289100

Fax

2239289148

Email

jksaboo@igpetro.com

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

Product Type *	Product Name *	Quantity	UOM
Petrochemicals	Phthalic Anhydride	153161.5	MT/A
Petrochemicals	Benzoic Acid	747.8	MT/A
Petrochemicals	Power (Exported to Grid)	2.5	MW

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	Waste Name	Quantity	UOM
1.2 Tarry residues and still bottoms from distillation	Still bottoms from distillation process	927.18	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Discarded containers / barrels / liners contaminated with hazardous wastes / chemicals	13.312	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Filter bags	2.793	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	13.204	MTA
36.2 Spent carbon or filter medium	Spent carbon	5.035	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incineration of hazardous waste, flue gas cleaning residues	4.343	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	54.16	MTA
5.1 Used or spent oil	Used / spent oil	7.2	MTA
15.2 Discarded asbestos	Discarded asbestos	0.683	MTA

2. Quantity dispatched category wise.

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	13.312	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Incineration
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	2.793	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Incineration
35.3 Chemical sludge from waste water treatment	13.204	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Land Fill
36.2 Spent carbon or filter medium	5.035	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML)- Incineration
37.2 Ash from incinerator and flue gas cleaning residue	4.343	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Land Fill
1.6 Spent catalyst and molecular sieves	54.16	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML) - Land Fill
5.1 Used or spent oil	7.2	MTA	Recycler or Actual user	Star Petrochemicals- / Poonam Petrochem Pvt. Ltd. Recycle/Sell
15.2 Discarded asbestos	0.683	MTA	Disposal Facility	M/s. Mumbai Waste Management Limited (MWML)- Land Fill

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 bottoms from distillation process	927.18	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 bottoms from distillation process	0	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Discarded containers / barrels / liners contaminated with hazardous wastes / chemicals	0	MTA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	Filter bags	0	MTA
35.3 Chemical sludge from waste water treatment	Chemical sludge from waste water treatment	0	MTA
36.2 Spent carbon or filter medium	Spent carbon	0	MTA
37.2 Ash from incinerator and flue gas cleaning residue	Ash from incineration of hazardous waste, flue gas cleaning residues	0	MTA
1.6 Spent catalyst and molecular sieves	Spent catalyst and molecular sieves	0	MTA
5.1 Used or spent oil	Used / spent oil	0	MTA
15.2 Discarded asbestos	Discarded asbestos	0	MTA

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

1.Total Quantity received	UOM
NA	KL/Anum
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	Quantity of waste received from domestic sources	Quantity of waste imported(If any)	Units
NA	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
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ANNEXURE VIII

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

1. All employees and contract employees are undergoing bi-annually medical check up every year in the month of January and July through Certifying Surgeon appointed by State Government of Maharashtra.
2. These medical check ups includes general medical examination, weight, height, eye sight, Blood Pressure, lung function test, routine blood examination, routine urine examination and X-ray once in a year.
3. Medical check up reports are available since 2006. As due to flood in July, 2005 all records since commissioning of the plant at Taloja have been lost.
4. Pre-employment medical check up is being carried out for each new recruit.
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.