

GACL: DAHEJ

**Compliance report of Environmental Clearance No. J-11011/102/2009-IA II (I) dtd. 29/04/2009: Period - July. 2011 to Dec. 2011**

Condition No.	Description	Status																																			
3.0	<p>Details of Products along with production capacities are given below:</p> <table border="1"> <thead> <tr> <th>S.no</th> <th>Products</th> <th>Existing (MTPM)</th> <th>Proposed (MTPM)</th> <th>Total (MTPM)</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Caustic Soda Lye (100%)/Prills/Flakes.</td> <td>22050</td> <td>1500</td> <td>23550</td> </tr> <tr> <td>02</td> <td>Chlorine</td> <td>19455</td> <td>1329</td> <td>20784</td> </tr> <tr> <td>03</td> <td>Hydrochloric Acid (100%)</td> <td>6000</td> <td>1260</td> <td>7260</td> </tr> <tr> <td>04</td> <td>Hydrogen</td> <td>546</td> <td>37.5</td> <td>583.5</td> </tr> <tr> <td>05</td> <td>Sodium hypochlorite (100%)</td> <td>910</td> <td>109</td> <td>1019</td> </tr> <tr> <td>06</td> <td>Dil. Sulphuric Acid (78-80%)</td> <td>550</td> <td>39</td> <td>589</td> </tr> </tbody> </table>	S.no	Products	Existing (MTPM)	Proposed (MTPM)	Total (MTPM)	01	Caustic Soda Lye (100%)/Prills/Flakes.	22050	1500	23550	02	Chlorine	19455	1329	20784	03	Hydrochloric Acid (100%)	6000	1260	7260	04	Hydrogen	546	37.5	583.5	05	Sodium hypochlorite (100%)	910	109	1019	06	Dil. Sulphuric Acid (78-80%)	550	39	589	Complied
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4.0	<p>It is noted that water requirement after the proposed expansion will be 11,644.4 m<sup>3</sup>/day which will be sourced from the GIDC water supply. The effluent generation will be additional 131 m<sup>3</sup>/d. The effluent will be treated in the ETP and will be sent to existing final treated effluent collection pit from where the combined effluent will be discharged to gulf of Khambhat through the existing effluent disposal system having long underground pipeline. The sewage will be treated in STP having secondary treatment facility. The domestic effluent will be treated in the sewage treatment plant having secondary treatment facility. The treated sewage will be used for green belt. The alkaline waste water produced during secondary brine purification will be recycled. The evaporated water from the caustic evaporator after cooling and steam condensate will be recycled. The total power requirement for the project will be met through the 90 MW existing captive power plant. To control process emissions in the form of Cl<sub>2</sub> and HCl, scrubbers will be installed. The chlorine bearing waste gases will be led to the waste air de-chlorination system which will be scrubbed with NaOH solution to produce sodium hypo-chlorite. Brine sludge (78 MT/day) will be disposed at captive secured land fill site TSDF as per CPCB guidelines.</p>	Complied as per GPCB consent order no. AWH 36640 amended on dtd 27/06/2011																																			
5.0	<p>Sludge from Naphtha/HSD storage tank (1 MT/year) and residue iron contaminated solvents-high boiling material (360 MT/year) will be incinerated within the industry/send for common incineration of BEIL. Used/spent oil (50 MT/year) will be sold to register re-refiners. Residue/filter cake of acid from drum filter of Phosphoric Acid (10 MT/year) and waste residue from industry use of paints during repairing work of plant/building (0.5 MT/year) will be disposed at own TSDF. Discarded barrels (2400 nos/year) will be sold to authorized recyclers. Discarded bags/liners/packing material (90 MT/year) and discarded personal protective equipment, waste gasket etc (30 MT/year) will be collected and stored after decontamination. Chemical sludge from ETP (25550 MT/year) will be thickened in a thickener and the thickened sludge will be dewatered in a centrifuge. The dewatered sludge is disposed at captive secured land fill site TSDF ETP waste from PAC plant (76.65 MT/year) and ash from incineration of hazardous waste (27.38 MT/year) will be disposed at own TSDF. Copper scrap from scrap copper tubing/pipes used in Cl<sub>2</sub> bottling and plants (1 MT/year), lead scrap from scrap lead washers used in chlorine tonners (2 MT/ year), Nickel scrap from scrap nickel tubes of plants (1 MT/year) will be sold to registered recyclers.</p>	Complied as per GPCB consent order no. AWH 36640 amended on dtd. 27/06/2011.																																			

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Condition No.	Description	Status
	Waste asbestos material (0.5 MT / year) from scrap of used asbestos gloves in plants will be disposed at TSD after solidification/encapsulation. Waste nitrate salt (inorganic salt) from heating salt for CCU (50 MT/year) will be disposed at own captive secured landfill facility. Discarded lead batteries (8 MT/year) will be sold to registered authorized re-processors. Spent catalyst (waste palladium catalyst) (0.6 MT/year) will be sold to authorized & approved vendors. Spent carbon (waste activated carbon) (5 MT/year) will be incinerated within the industry/send for common incineration of BEIL. Concentrated organic waste liquid (96 MT/year) will be incinerated within the industry/send for common incineration of BEIL.	
6.0	The project activity is listed at 4(d) in the Schedule of EIA Notification, 2006 and is of 'A' Category. The Expert Committee (Industry) recommended the project for environmental clearance in its meeting held on 18th-20th March 2009 as per para 7(ii) of EIA Notification, 2006 subject to specific and general conditions.	--
7.0	Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14 <sup>th</sup> September 2006 subject to the compliance of the following Specific and General conditions:	--
<b>A. SPECIFIC CONDITIONS:</b>		
i)	The process effluent generation from the proposed expansion shall not exceed 131 m <sup>3</sup> /d. The effluent after treatment in the ETP and conforming to the prescribed standards shall be discharged through underground pipeline into the Gulf of Khambhat. The domestic effluent shall be treated in sewage treatment plant and treated effluent shall be used for green belt development.	Complied
ii)	Gaseous emissions from the gas turbine and thermic fluid heater shall be dispersed through stack of height as per CPCB standards. Particulate emissions shall conform to the prescribed standards. For dispersion of emissions from the DG set, stack height as per CPCB standards shall be provided. Emissions from the D G Sets shall conform to the standards prescribed by the CPCB.	Complied
iii)	The Company shall install online chlorine gas detectors to detect leakage of chlorine at liquid chlorine storage tanks, chlorine bottling area, sodium hypo plant at vent pipe, HCl synthesis unit and electrolyser area. Caustic scrubber shall be provided in the HCl plant for absorption of chlorine/HCl from the stack. Dykes of adequate height shall be provided around the HCl acid tanks to collect the acid within the dyke walls in the event of catastrophic failure of the tank.	Complied
iv)	The vent gases from Sodium hypochlorite plant and HCl acid plant shall be controlled at source by effective absorption system. Waste Chlorine gas shall be used in preparation of HCl. The vent gases shall be discharged from the stacks of adequate height for effective dispersion. Chlorine sensors shall be installed to monitor Cl <sub>2</sub> .	Complied
v)	The solid waste including ETP sludge shall be disposed of in the secured landfill site within the plant premises approved by the Gujarat State Pollution Control Board. Construction of secured landfill facility shall be as per the CPCB guidelines.	Complied as per GPCB consent order no. AWH 36640 as amended on dtd 27/06/2011.
vi)	The company shall develop rainwater-harvesting structures to harvest the run-off water from the rooftops and by laying a separate storm water drainage system for recharge of ground water and to reduce the withdrawal from the ground water.	Complied. 07 rainwater harvesting ponds with total 65000 M <sup>3</sup> capacity are

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Condition No.	Description	Status
		developed
vii)	Green belt of adequate width and density in an area of 30 ha shall be provided to mitigate the effect of fugitive emission all around the plant. The development of green belt along the boundary walls, open space and avenue roads should be in consultation with the local DFO or any of the agencies having expertise in this area.	Complied
<b>GENERAL CONDITIONS:</b>		
i)	The project authorities shall strictly adhere to the stipulations made by the Gujarat State Pollution Control Board.	Complied
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 alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We agree
iii)	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.	We agree
iv)	The project authorities shall strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management, Handling and Trans-boundary Movement Rules) Rules, 2008. Authorization from the State Pollution Control Board must be obtained for collections/ treatment storage/ disposal of hazardous wastes.	We agree
v)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources .of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA ~Rules, 1989 viz. 75 dBA (day time) and 70 (dBA (night time).	Complied
vi)	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre should be strengthened and the medical records of each employee should be maintained separately.	Complied
vii)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and Risk analysis Report. The Company must also undertake social welfare/community development measures in the surrounding villages, such as health care, education and drinking water supply facilities.	Complied. Attached <b>Annex-I</b>
viii)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	Complied
ix)	The project authorities shall provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Complied
x)	The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's regional office at Bhopal/State Pollution Control Board /Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.	Complied
xi)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance	Complied

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Condition No.	Description	Status
	letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should be advertised within seven days from the date of issue of -the clearance -letter-;at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.	
xii)	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work, if any.	The date of financial closure is 31/03/2011.
08	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	OK
09	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.	OK
10	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	OK
11	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 Wastes (M, H & TM) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	OK

**Compliance report of Environmental Clearance No. J-11011/825/2008-IA II(I) dtd 15/08/2007 : Period – July. 2011 to Dec. 2011**

Condition No.	Description	Status																				
2.0	<p>The Ministry of Environment and Forests has examined your application and noted that M/s. Gujarat Alkalies &amp; Chemicals Ltd. have proposed for the expansion of Chlor-Alkali Plant Caustic Soda Plant (18,182 MTPM to 22,050 MTPM) at Dahej, Vagara, Bharuch, Gujarat Expansion will be done within existing plot and no additional land will be acquired. Production will be expanded by increasing the number of membrane electrolyzers in existing plant. The details products and product capacity are as given below:</p> <table border="1"> <thead> <tr> <th>Name of product</th> <th>Existing capacity (MTPM)</th> <th>Proposed expansion (MTPM)</th> <th>Total after expansion (MTPM)</th> </tr> </thead> <tbody> <tr> <td>Caustic Soda (Lye/Prills/Flakes-100%)</td> <td>18,182</td> <td>3,868</td> <td>22,050</td> </tr> <tr> <td>Chlorine</td> <td>16,110</td> <td>3,345</td> <td>19,455</td> </tr> <tr> <td>Hydrogen</td> <td>445</td> <td>101</td> <td>546</td> </tr> <tr> <td>78%-80% Dilute Sulphuric Acid</td> <td>300</td> <td>250</td> <td>550</td> </tr> </tbody> </table>	Name of product	Existing capacity (MTPM)	Proposed expansion (MTPM)	Total after expansion (MTPM)	Caustic Soda (Lye/Prills/Flakes-100%)	18,182	3,868	22,050	Chlorine	16,110	3,345	19,455	Hydrogen	445	101	546	78%-80% Dilute Sulphuric Acid	300	250	550	Complied as per latest Environmental Clearance No. J-11011/102/2009-IA 11(1) dtd. 29/04/2009.
Name of product	Existing capacity (MTPM)	Proposed expansion (MTPM)	Total after expansion (MTPM)																			
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3.0	Production of HCl (100%) and Sodium Hypochlorite will not exceed the limit of 6,000 MTPM and 910 MTPM respectively. Total cost of the project is Rs. 33.3741 Crores.	Complied as per latest Environmental Clearance No. J-11011/102/2009-IA 11(1) dtd.9/04/2009.																				

Condition No.	Description	Status
4.0	All the waste chlorine bearing gaseous emission streams will lead to the waste air de-chlorination unit to scrub through a 3-stage scrubber with caustic solutions. Sodium Hypochlorite will be scrubbed from scrubbed solutions. Ventury scrubber will be provided to the incinerator. Low NOx burner will be provided to CPP. Cyclone, scrubber, mist eliminator will be provided to spray dryer. Scrubbers will also be provided to Phosphoric Acid Plant.	Complied.
5.0	Total water requirement from GIDC supply for the expansion project will be 774 M3/d (Total 10,052.54 M <sup>3</sup> /d). GIDC has accorded permission for 11362.5 M <sup>3</sup> /d supply and water to GACL, Dahej. Total effluent will be 3,908 M3/d, and out of this 200 M <sup>3</sup> /d will be consumed in-house for gardening, green belt etc. Rest 3,708 M <sup>3</sup> /d effluent from brine treatment section, caustic concentration section etc. will be treated in the ETP and will be discharged into gulf of Khambhat through the existing underground pipeline only as per the permission accorded by the GPCB.	Complied as per GPCB consent order no. AWH 36640 as amended on dtd. 27/06/2011
6.0	Solid waste will be generated in the form of brine sludge (60 MTPD), sewage sludge (30 kg/hr) chemical sludge from wastewater treatment (70 MTPD). Incineration ash (75 kg/day), Cu, Pb & Ni Scrap (4 MTPA); Solvent residue (30 MTPM) will be generated. Discarded batteries (8 MTPA), used oil (15 MTPA) will be sold to authorised recyclers. Brine sludge, chemical sludge and incineration ash will be disposed of in own SLF	Complied as per GPCB consent order no. AWH 36640 as amended on dtd. 27/06/2011
7.0	The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14 <sup>th</sup> Sept., 2006 subject to compliance of the following specific and general conditions	
<b>A. SPECIFIC CONDITIONS:</b>		
i)	The project authorities shall comply with the stipulations made by ministry in its environmental clearance letter issued F, NO. J-11011/93/96-IA II dated 30 <sup>th</sup> Oct., 1996	Complied
ii)	The Company shall install Chlorine gas detectors to detect leakage of Chlorine at liquid Chlorine storage tanks. Sodium hydro plant, HCl synthesis unit and Electrolysis area. The company shall install on-line analyser in HCl plant and hypo stack with recording facility.	Complied. Chlorine sensors are installed at all these places.
iii)	The vent gases from Sodium Hypochlorite plant and HCl Plant shall be controlled at source by effective absorption system so that Chlorine concentration in the vent gases shall not exceed 5 ppm. Waste Chlorine gas shall be used in preparation of HCl. The vent gases shall be discharged from the stacks of adequate height for effective dispersion. Additional Chlorine sensors shall be installed to monitor Ch. ESP shall be installed to minimise emissions.	Complied. ESP is not applicable to our industry as we are using NG as fuel.
iv)	Green belt shall be developed in 33% plot area to mitigate the effects of fugitive emissions all around the plant. The development of green belt shall be as per the Central Pollution Control Board guidelines.	At present 33% of area is covered with green belt and garden.
v)	Ventury scrubber to the incinerator and scrubbers to Phosphoric Acid Plant should be provided. Cyclone, scrubber, mist eliminator should be provided to spray dryer. Low NOx burner should be provided to CPP. The stack emissions from various sources should not exceed 50 mg/Nm <sup>3</sup> .	Complied as per GPCB consent order no. AWH 36640 as amended on dtd. 27/06/2011
vi)	Capacity of the existing ETP of Caustic Soda Plant shall be augmented and treated effluent should be discharged into Gulf of Khambhat through the existing underground pipeline only as per the permission accorded by the GPCB.	Complied as per GPCB consent order no. AWH 36640. as amended

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Condition No.	Description	Status
		on dtd. 27/06/2011
vii)	Wastewater generated during brine filtration and secondary brine purification, steam condensate and evaporated water from the caustic evaporator after cooling shall be recycled.	Complied
viii)	Brine sludge, chemical sludge and incineration ash should be disposed off in own secured landfill.	Complied
<b>GENERAL CONDITIONS :</b>		
i)	The project authorities shall strict adhere to the stipulations of the SPCB / State Government or any statutory body.	Complied
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.	We agree
iii)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	We agree
iv)	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> , HCl, CO) 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 emission levels 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.	Complied. Copies of gaseous emission analysis reports for last six months are attached as <b>Annex-II</b> .
v)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	At present we are monitoring ambient air continuously at three fixed locations and two mobile stations on monthly basis.
vi)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	Complied as per GPCB consent order no. AWH 36640 as amended on dtd 27/06/2011.
vii)	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N <sub>2</sub> blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimise vapour losses. All liquid raw material shall be stored in storage tanks and drums.	All feasible precautions are taken to avoid leakages/minimise vapour losses.
viii)	The company shall undertake following Waste Minimisation measures: <ul style="list-style-type: none"> <li>• Metering and control of quantities of active ingredients to minimise waste</li> <li>• Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> <li>• Use of automated filling to minimise spillage</li> <li>• Use of "Close Feed" system into batch reactors.</li> </ul>	Complied. We are utilising effluent of Phosphoric Acid Plant for recovery of Calcium Chloride to sell it as product. We are recovering

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Condition No.	Description	Status
	<ul style="list-style-type: none"> <li>Venting equipment through vapour recovery system.</li> </ul> Use of high-pressure hoses for equipment cleaning to reduce waste water generation	Gypsum from effluent of Caustic soda plant. The waste chlorine gas is scrubbed with Caustic Soda solution to produce sellable Sodium Hypochlorite.
ix)	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Board/Central Pollution Control Board	Fugitive emission is monitored & recorded through online sensor. Refer <b>Annex-III.</b>
x)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorisation from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous waste.	Complied. We have obtained consent order no. AWH 36640 as amended on dtd. 27/06/2011 from Gujarat Pollution Control Board.
xi)	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).	Complied
xii)	The company shall develop rainwater harvesting structures to harvest the run off water for recharge of ground water and to reduce requirement of the fresh water.	07 Nos. of water harvesting ponds are developed with a total 65,000 M <sup>3</sup> storage capacity, as shown in enclosed <b>Annex-IV.</b>
xiii)	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act	Complied.
xiv)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Details of eco development measures including community welfare measures, Environment Day celebration. Enclosed as <b>Annexure-I.</b>
xv)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.	Complied
xvi)	A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental management and Monitoring function	Complied
xvii)	The project authorities shall earmark separate funds to implement the conditions stipulated by the Ministry of Environment and Forests as	Complied

Condition No.	Description	Status
	well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	
xviii)	The implementation of the project vis-à-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	Complied. It is posted on website of the company at <a href="http://www.gacl.com/pulic_hm/new/env_clear.pdf">http://www.gacl.com/pulic_hm/new/env_clear.pdf</a> .
xix)	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 SPCBL Committee and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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.
xx	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.	Complied.
xxi)	All the CREP recommendations suggested for the Caustic Soda Plant by the CPCB shall be implemented effectively and report submitted to MOEF/CPCB/Gujarat Pollution Control Board.	Complied
8.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	We agree
9.0	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	We agree
10.0	The above conditions will 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 Wastes (Management and Handling) Rules, 2003 as amended from time to time and the Public Liability Insurance Act, 1991 along with their amendments and rules.	We agree

**Compliance Report of Environment Clearance No. 11011/93/96-IA.II dtd 30/10/1997 for Caustic Soda Plant: Period - July. 2011 to Dec. 2011**

Condition No.	Subject	Compliance Status
2 (iv)	Air quality monitoring status	Air quality monitoring reports during last six months are enclosed as <b>Annexure-V</b> .
	Stack emission monitoring	Stack emission monitoring data for last six months are enclosed as <b>Annexure-II</b> .
v)	Monitoring of fugitive emission of chlorine	Fugitive emission of chlorine is monitored and recorded continuously at 19 vulnerable locations through out the plants. Copies of few recording strips for last six months are enclosed as <b>Annexure-III</b> .
vi)	Liquid effluent quality	Liquid effluent monitoring reports by GPCB approved third agency for last six months is enclosed as <b>Annexure-VI</b> .
vii)	Marine environment monitoring	We had carried out marine environment monitoring through NIO.

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ix)	Green belt	Till date, land is covered with 72,000 nos. of trees i.e. density greater than 2,000 trees per hectare.
xii)	Hazardous waste authorisation from GPCB	We are having consent & authorisation order no. AWH 36640 as amended on dtd. 27/06/2011 from GPCB valid up to 26/11/2015.
xv)	Expenditure on environment protection	Rs.15.80 lacs were spent in the year 2010-11 for safety, environment, gardening & related activities.

**Compliance Report of Environment Clearance No. J.13011/29/95-IA-II dtd 09/09/1996 for Power Plant: Period - Jan. 2011 to June. 2011**

Condition No.	Subject	Compliance Status
2 (iii)	NOx emission	NOx emission remains quite below 80 ppm. Please refer analysis report for last six months enclosed as <b>Annexure-II</b> .
2(vi)	Liquid effluent	Treated liquid effluent conforms to the prescribed standard. Please refer analysis reports for the last six months enclosed as <b>Annexure-VI</b> .
2(vii)	Air quality monitoring	Air quality monitoring reports for last six months are enclosed as <b>Annexure-V</b> .
2(ix)	Afforestation & green belt	Land is covered with 72,000 nos. of trees i.e. density greater than 2,000 nos. trees per hectare.
2(x)	Ground water monitoring	Ground water monitoring reports during last six months are enclosed as <b>Annexure-VII</b> .
2(xi)	Conducting mock drill	Mock drills are conducted regularly to check emergency preparedness. Details of mock drills conducted on 20/09/2011 (simulation of chlorine leakage) is enclosed as <b>Annexure-VIII</b>