

KRIBHCO**कृषक भारती कोआपरेटिव लिमिटेड**

डाकखाना : कृभको नगर, सूरत-394 515. (गुजरात)

KRISHAK BHARATI COOPERATIVE LIMITED

P. O. : KRIBHCO NAGAR, SURAT-394 515. (GUJARAT)

BY REGISTERED A.D POST

Ref. No.: HP/10 /Env. Lab / Status MoEF/ 2011 / 01

Dated: 31.01.2011

To,
The Additional Director (S)
Ministry of Environment & Forest,
Regional Office, Western Region,
BHOPAL – 462 016. (M.P.)

Kind Attention : Dr. A Mehrotra

Subject : Status Report for the implementation of the Project up to
December - 2010.

Dear Sir,

We have been granted Environmental Clearances by the honorable ministry as per details given below:

- (A) Revamping of existing Ammonia and Urea plant: : Reference No. J - 11011/1222//2007-IA-II (I) dated: 28.04.2008.
- (B) Expansion of Hazira Fertilizer Complex for 6.6 Lakh MTPA of Ammonia and 11.55 MTPA of Urea at Surat-Gujarat
(Env Clearance letter No. J-11011/503/2009--IA II (I) dated 04.10.2010)

The status reports pertaining to above clearances are as under:

- (A) Revamping of existing Ammonia and Urea plant: Reference No. J - 11011/1222//2007-IA-II (I) dated: 28.04.2008.

The Board of KRIBHCO had in its 247 meeting held on 29.12.2008, approved the implementation of revamp project at Hazira. The estimated schedule of implementation is 32 months with its zero date as 27th Jan 2009. The estimated cost of the project is about Rs.1301 crores. The project is expected to close during the last quarter of 2011. This is a revamp project, the expenses incurred so far have been taken care by Kribhco from its own sources, Kribhco has a very robust balance sheet, and however finances would be tied as per fiscal prudence.

The implementation work for the project is in advance stage, brief description of the activities undertaken up to Dec-2010 is attached at **Annexure – I**. Also we are attaching the point wise compliance status to various stipulated conditions of Environment Clearance and Consent to Established (NOC) issued by GPCB-Gandhinagar at **Annexure –II & III** respectively.



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ACCREDITATION



Site Office : Tel. : 0261-2862766 to 68 Fax : 0261-2860283

Website : www.kribhcosurat.com

Head Office : KRIBHCO Bhawan, A-8-10, Sector-1, NOIDA-201 301. (U.P.)

Tel. Nos. 120-2534614 / 2534631 / 32 / 36 Fax Nos. 0120-2537113

Website : www.kribhco.org, www.kribhco.net, www.kribhcoindia.com

Regd. Office : Red Rose House, 49-50, Nehru Place, New Delhi-110 019.

HCO

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(B) Expansion of Hazira Fertilizer Complex for 6.6 Lakh MTPA of Ammonia and 11.55 MTPA of Urea at Surat-Gujarat (Env Clearance letter No. J-11011/503/2009--IA II (I) dated 04.10.2010)

Environment Clearance has been granted to us by Ministry of Environment and Forest (MoEF) vide aforesaid letter for expansion of Hazira Fertilizer Complex for establishment of Ammonia and Urea plant of capacities 6.6 Lakh MTPA and 11.55 MTPA respectively. In this regard, society has requested the Department of Fertilizers, Ministry of Chemicals & Fertilizers, and Government of India for allocation of natural gas feedstock. It is understood that Department of Fertilizers has forwarded our request to the Ministry of Petroleum & Natural Gas. A decision in this regard will be taken by Empowered Group of Ministers. Till the time gas feedstock is allocated, KRIBHCO is trying to undertake pre-project activities like short listing of technology supplier. Simultaneously, Comprehensive Risk Assessment study of entire Hazira Fertilizer Complex is being undertaken as advised by MoEF. Consultancy work has already been awarded for the same.

All the stipulated conditions as mentioned in the aforesaid EC will be complied with at the time of implementation of expansion of Hazira Fertilizer Complex.

This is for your kind information and records please.

Thanking You.

Yours faithfully,
For Krishak Bharati Co-operative Limited

B. R. Nagar
31.01.11

B. R. Nagar
Chief Manager (Lab.)

- C/c:**
- (i) MoEF - Delhi.
 - (ii) CPCB - Delhi.
 - (iii) GPCB - Surat.
 - (iv) GPCB - Gandhinagar.
 - (v) CGM(T) / OD, O/C.



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Project status report of Revamping of existing Ammonia and Urea plant**For the period 01.07.2010 to 31.12.2010****Reference No. J -11011/1222//2007-IA-II (I) dated: 28.04.2008.**

KRIBHCO is implementing the revamp of its existing Urea Manufacturing facility at Hazira. The estimated schedule of implementation is 32 months. The estimated cost of the project is about Rs.1301 crores. The project is expected to close during the last quarter of 2011.

The implementation work for the project is in advance stage, brief description of the activities undertaken till date is given as below:

- Basic Engineering for Ammonia and urea plant is complete.
- The Detail engineering and procurement work with M/s PDIL is under advance stage of completion.
- Procurement for the Revamp is almost complete and orders has been placed for all the equipments and instrumentation items and most of Piping items.
- Civil and mechanical erection work at site is under progress.

The progress of the project is satisfactory

Compliance Status Report for the Environment Clearance (Re-vamp)
For the period 01.07.2010 to 31.12.2010

F.No. J – 11011/1222/2007 – IA-II (I), Dated: 28/04/2008

**Revamping of Existing Ammonia and Urea Plant at Surat- Gujarat by
M/s Krishak Bharati Cooperative Limited- Environment Clearance reg.**

A. SPECIFIC CONDITIONS:

Sr.No.	Condition	Compliance
1.	The project revamping shall be in ammonia & urea plants to increase the capacity and to reduce specific energy consumption incorporating latest technological feature in the process with minimum augmentation in infrastructure and utilities.	Will be complied
2.	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for fertilizer industries.	complied
3.	The project authorities shall install efficient scrubbing system to control emission and bag filters for dust control in the plant.	Will be complied
4.	Permission of the competent authority shall be obtained for drawl of water.	KRIBHCO is having a contractual agreement with Gujarat irrigation department for supply of 12 MGD of water. Additional requirement for revamp activity will be catered by existing contractual quantity.
5.	The gaseous emissions (SO ₂ , NO _X , NH ₃ , fertilizer dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office, CPCB and SPCB.	Will be complied

6.	All the wastewaters generated from the various processes shall be recycled/reuse in the plant and zero discharge shall be maintained. The domestic wastewater shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.	Society has implemented various recycle/reuse schemes and there is no discharge of treated wastewater from final outlet of Balancing Pond since 2003. Same status will be maintained after implementation of revamp activity. Domestic waste water after tertiary treatment is being used for cooling water make up and same practice will be followed after revamp.
7.	The company shall develop the green belt in atleast 33% land area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	An area of 100 acre of land has already been developed for green belt and 5000 No of trees of different species has been planted in the year 2010.
8.	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Annual medical check up is carried out for all the employees and records are maintained.

B. GENERAL CONDITIONS:

1.	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	Will be complied
2.	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.	Will be complied
3.	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.	Will be complied.

4.	The locations of ambient air quality monitoring stations shall be reviewed in consultations 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.	Ambient air quality monitoring is being carried out at six stations. Out of which Two stations are within the complex and other four stations are in the periphery of 10 km radius of the complex. The stations are fixed in consultation with GPCB.
5.	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
6.	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N ₂ blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw material shall be stored in the storage tanks and drums.	There are two atmospheric storage tanks each of capacity of 10,000 MT of liquid ammonia. The tanks are double wall double integrity type with suspended deck at the top and insulation on the outer wall of the outer tank to avoid the release of ammonia to the atmosphere in case of accidental failure. NGL/ARN is being stored in storage tank and all the safety measures are in place. Efficacy and adequacy of the system is being checked regularly by mock drills.
7.	The company shall undertake following waste minimization measures. <ul style="list-style-type: none"> (i) Metering and control of quantities of active ingredients to minimize waste. (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (iii) Use of automated filling to minimize spillage. (iv) Use of “Close Feed” system into batch reactors. (v) Venting equipment through 	Complied - Not Applicable - Not Applicable - Not Applicable - will be complied

	<p>vapour recovery system.</p> <p>(vi) Use of high pressure hoses for equipment cleaning to reduce wastewater generation.</p>	<p>- Will be complied</p>
8.	<p>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 Boards/ Central Pollution Control Board.</p>	<p>Will be complied</p>
9.	<p>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. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.</p>	<p>Authorization for spent oil and spent catalyst for collection/storage/transportation and ultimate disposal to MoEF/CPCB registered recycler reprocessor or any TSDF site approved by GPCB has already been taken. Application has been submitted to GPCB- Surat for obtaining Authorization for storage, transportation and disposal of Benfield solution to TSDF after stabilization and solidification.</p>
10.	<p>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).</p>	<p>Will be complied</p>
11.	<p>The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.</p>	<p>Possibility will be explored for rain water harvesting.</p>
12.	<p>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.</p>	<p>Society has signed a memorandum of understanding with the Gujarat Ecology Commission (GEC) Gandhinagar for planting Mangroves on an area of 100 hectares at village Kantiyajal, dist. Bharuch. Work of planting mangroves has already started at the project site.</p>

		Society spends approx. Rs. 80 Lakhs/annum for the community welfare and development activities such as drinking water supply, plantation of different trees, construction of roads, check dams etc.
13.	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.	Will be complied
14.	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 cell with full fledged laboratory facilities already exists to carry out the Environmental Management and Monitoring functions.
15.	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Will be complied
16.	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
17.	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 and may also be seen at Website of the Ministry at http://envfor.nic.in This shall be advertised within seven days from the due date of issue of the clearance letter, at least in two local newspapers that are	Public Notice stating that project has been accorded Environment Clearance by MoEF was published in "The Times of India-Surat" & "Divya Bhaskar-Surat" on 24th May 2008.

	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.	
18.	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.	Zero date of the project was 27th Jan 2009. This is a revamp project. The expenses incurred so far have been taken care by Kribhco from its own sources, Kribhco has a very robust balance sheet, and however finances would be tied as per fiscal prudence.

Compliance Status Report for the Consent to Establish (Re-vamp)
For the period 01.07.2010 to 31.12.2010

Consent to Establish (NOC) UNDER section 25 of Water Act 1974 and Section 21 of Air Act – 1981

SNo.	Conditions	Compliance
1)	The validity period of the order will be five years from date of issue of this order	--
2)	Applicant shall comply with all the conditions stipulated by MoEF in the order of Environment Clearance issued vide order no. J-11011/1222/2007-1A-II (i) dtd. 28/4/08.	Will be Complied

CONDITIONS UNDER WATER ACT 1974

1)	The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 941 m ³ /day & same shall be reused/recycles after treatment.	Will be complied	
2)	The quantity of the domestic waste water (sewage) shall not exceed 4000 m ³ /day including existing & expansion activity.	Will be complied	
2 (a)	The quantity of water to be used for the mfg. Process and other ancillary industrial operation shall not exceed 6620 m ³ /day	Will be complied	
2 (b)	The quantity of water to be used for domestic/gardening and other ancillary industrial operation shall not exceed 5681 m ³ /day including existing & expansion activity.	Will be complied	
3)	Existing effluent treatment plant shall be used.	Will be complied.	
4)	The applicant shall provide adequate effluent treatment system in order to achieve the quality of the treated effluent as per GPCB norms mentioned below:	Will be complied	
	PARAMETERS		GPCB NORMS
	PH		6.5 to 8.5
	Temperature		40 °C
	Colour (pt.co.scale) in units		50 units
	Suspended solids	50 mg/l	

	Oil and Grease	10 mg/l	Will be complied
	Phenolic compounds	1 mg/l	
	Ammonical Nitrogen	i) 50 mg/l at the outlet of Ammonia Stripping Tower. ii) 25 mg/l at the final outlet	
	Total Chromium	2 mg/l	
	Hexavalent chromium	0.1 mg/l	
	BOD (5 days at 20°C)	50 mg/l	
	COD	150 mg/l	
	Total Kjeldahi Nitrogen	25 mg/l at the outlet of the Hydrolyser Stripper	
	Nitrate Nitrogen	10 mg/l	
	Arsenic	0.2 mg/l	
	Bio assay test	90% survival of fish after 96 hours in 100% effluent.	
5)	The effluent conforming to the above standards shall be reused/ recycled & there shall not be discharge of waste water outside the premises.		Society has implemented various recycle/reuse schemes and achieved Zero discharge and there is no discharge of treated waste water from final outlet of Balancing Pond since 2003. Same status will be maintained after implementation of revamp activity.
6)	Sewage shall be treated separately to conform to the following standards and shall be utilized on land for gardening, plantation and irrigation.		Sewage after tertiary treatment is being used for cooling water make up and same practice will be followed after revamp.
	BOD	Less than 20 mg/l	
	Suspended Solids	Less than 30 mg/l	
	Residual chlorine	Minimum 0.5 ppm	
7)	The unit shall install meters for measuring category wise (category as given in water cess Act – 1977 Schedule-II) consumption of water.		complied

CONDITIONS UNDER AIR ACT 1981:

8)	The following shall be used as fuel in existing boiler/furnace/prilling tower.		Will be complied	
	Sr. No.	Fuel		Quantity
	1)	N.G.		9400 MT/Months
	2)	ARN/NGL		20,000 MT/Months
9)	Stack monitoring facilities like port hole, platform/ladder etc., shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.		Will be complied	
10)	Ambient air quality within the premises of the industry shall conform to the following standards:		Will be complied	
	PARAMETERS			PERMISSIBLE LIMIT
	Particulate Matter 10			100 Microgram/M ³
	PM 2.5			60 Microgram/M ³
	SO ₂			80 Microgram/M ³
	NO _x			80 Microgram/M ³
	HCL			200 Microgram/M ³
	CL ₂			100 Microgram/M ³
	Ammonia			400 Microgram/M ³
	Hydrocarbon			160 Microgram/M ³
H ₂ S		500 Microgram/M ³		
11)	All measures for the control of environmental pollution shall be provided before commencing production		Will be complied	

CONDITIONS UNDER HAZARDOUS WASTE:

12)	Applicant shall have to comply with provisions of Hazardous Waste (Management & Handling & transboundary Movement) Rules-2008 as amended from time to time.	Will be complied
12.1	The applicant shall obtain membership of common TSDF site for disposal of Haz Waste as categorized in Hazardous Waste (Management & Handling &	Spent oil and spent catalyst are being sold to the CPCB registered

	transboundary Movement) Rules-2008 as amended from time to time.	recycler / reprocessor. Disposal of other waste which will be required to be disposed off to TSDf will be done through competitive bidding as per the society norms. At that time membership of the L1 TSDf operator will be taken.
12.2	The applicant shall obtain membership of common Haz Waste incinerate waste.	No incinerable waste is generated in the complex.
12.3	The applicant shall provide temporary storage facilities for each type of Haz. Waste as per Hazardous Waste (Management & Handling & transboundary Movement) Rules-2008 as amended from time to time.	A separate storage area for hazardous waste is provided with adequate waterproof roof.

CONDITIONS UNDER ENVIRONMENTAL AUDIT SCHEME:

13)	Unit shall submit Environment Audit Report from the recognized schedule-1 Auditor every year by 31 st Jan as per Environment Audit Scheme introduced by Hon'ble High Court of Gujarat vide its order dtd. 16/09/09 & submit point wise compliance report with reference to all the suggestions/recommendations of auditor in the auditor report.	Will be complied
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GENERAL CONDITION:

14)	Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt shall be minimum 33% of total land area.	100 acre of land is under green belt. 5000 No of trees of different species has been planted in the year 2010.
15)	The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the board under the Water Cess Act-1977.	Will be complied
16)	In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the board.	Will be complied

17)	The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emissions or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.	Will be complied
18)	THE APPLICANT ALSO COMPLY WITH THE General conditions as per Annexure-1 attached herewith (No.1 to 38) (whichever applicable).	Will be complied
19)	The concentration of noise in ambient air within the premises of industrial unit shall not exceed following levels. Between 6 A.M. and 10 P.M. : 75 dB(A) Between 10 P.M. and 6 A.M. : 70 dB(A)	Will be complied
20)	Applicant is required to comply with the Manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.	Will be complied
21)	If it is established by any competent authority that the damaged is caused to their industrial activities to any person or his property, in that case they are obliged to pay the compensation as determined by the competent authority.	It will be ensured that no damage is caused to any person or his property due to our industrial activities.