ANNEXURES TO

EIA REPORT
ANNEXURE – A

COPY OF MoU WITH

CEMENT

MANUFACTURERS
MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) has been entered between;


BODAL CHEMICALS LTD [UNIT-VII] is engaged in manufacturing of Dyes & Dye Intermediates having domestic & international market for sale of their products. They have sufficient infrastructure, technical as well as field staff along with their in house laboratory.

ULTRATECH CEMENT LIMITED a Company Incorporated under the Companies Act, 1956 of India and having its registered office at Ahura Centre, “B Wing” 2nd floor, Mahakali Caves Road, Andheri[East], Mumbai.

ULTRATECH CEMENT LIMITED, will receive and utilize all the Gypsum Sludge & Iron Sludge generated at the unit namely BODAL CHEMICALS LTD [UNIT-VII] on mutually agreeable charges.

For, Bodal Chemicals Ltd., Unit-VII

Authorized Signatory

ULTRATECH CEMENT LIMITED,

Authorized Signatory
M/s Bodal Chemicals Ltd.
Plot No. 123/124, Phase – I,
GIDC Estate, Vatva,
Ahmedabad – 382 445 (Gujarat)

Kind Attn.: Mr. Shailesh M. Soral

Dear Sir,

Sub.: Memorandum of Understanding – Chemical Gypsum & Iron Sludge
Ref.: Your letter dated 06.05.11 and 23.05.11

With reference to above and as confirmed by you to keep continue the supplies of Gypsum and Iron Sludge as per existing terms, we are enclosing herewith the MOU sent by you duly signed by us for your needful please. (*Scanned copy of the same already sent over email*)

Thanking you,

Yours faithfully,
For ULTRATECH CEMENT LTD.
Unit: Narmada Cement, Jafarabad Works

S.P. Ladha
Dy. Manager (Materials)
MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) has been entered between;


BODAL CHEMICALS LTD [UNIT-VII] is engaged in manufacturing of Dyes & Dye Intermediates having domestic & international market for sale of their products. They have sufficient infrastructure, technical as well as field staff along with their in house laboratory.

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ULTRATECH CEMENT LIMITED, will receive and utilize all the Gypsum Sludge & Iron Sludge generated at the unit namely BODAL CHEMICALS LTD [UNIT-VII] on mutually agreeable charges.

For, Bodal Chemicals Ltd., Unit-VII

Authorized Signatory

ULTRATECH CEMENT LIMITED

Authorized Signatory
Dear Sirs,

We are pleased to place our order on you for the following materials/services subject to terms & conditions and instructions specified here.

<table>
<thead>
<tr>
<th>Item</th>
<th>Indent No Date</th>
<th>Material Code Material Description</th>
<th>Item Qty</th>
<th>UoM</th>
<th>Item Price</th>
<th>Discount</th>
<th>Net Value (INR) (Inc Inc &amp; Oth)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td>GypsumChemicalGypsum</td>
<td>5,000.00</td>
<td>MT</td>
<td>110.00</td>
<td></td>
<td>550,000.00</td>
</tr>
</tbody>
</table>

Total value of PO in INR (Excluding Duties and Taxes):

Rupees Five Lakhs Fifty Thousand ONLY

TERMS & CONDITIONS

Excise Duty: NIL
Sales Tax: NIL
VAT: 12.5%
Addl. VAT: 2.5%
Freight: NIL
Packing & Forwarding: NIL
Handling Charges: NIL
Price: / By Road
Dispatch Mode: ULTRATECH CEMENT LIMITED
Delivery Address:

Delivery Period: 31.03.2011
Packing Instruction: Our Account
Insurance: Within 30 Days After Receipt Of Material
Payment Terms: 

Received on 11/02/11
EXCISE DETAILS

Central Sales Tax Number : 24631300430
Local Sales Tax Number : 24131300430
ECC No. : AAACL6442LXM013
Excise Registration Number : AAACL6442LXM013
Excise Range : III
Excise Division : IV
Excise Commissionerate : SURAT-I
Income Tax PAN Number : AAACL6442L
Service Tax Registration Number :
Tin Number : 24131300430 DTD.23.04.2004

*Reference: With ref. to our previous order No:7692000080 Dt:19.11.2010.

Chemical Gypsum CaSO₄ with purity minimum 80%.

Terms & Condition:

1. Material: Chemical Gypsum from your Ex-works at Baroda(Unit-V) to our site UTCL-Magdalla [Surat].

2. Rate: Rs.110/- per MT. Total value of this order is Rs.5,50,000/- (Rupees Five Lac Fifty Thousand only) Excluding applicable Taxes & Duties.

3. Excise: Nil

4. VAT @ 12.5% + 2.5% additional will be paid extra, you shall provide us Tax Invoice along with materials.

5. Above mentioned quantity is our tentative requirement and should not be considered as firm committed order quantity. The order shall be continued only and only if you supply the materials of quality as per specifications mentioned on regular basis. In case of your failure to supply the material as per specifications given, the order shall be cancelled immediately. In such case of cancellation of order, the un-executed/balance quantity shall be considered as cancelled. No claim from you shall be entertained by us on any ground in case of cancellation of order.

6. Transportation & Loading/Unloading: Transportation will be arranged by us from your works Baroda to our works Magdalla through our authorized transporter M/s. Shree Gurukrupa Trading Co. However if quality of gypsum is not acceptable, transportation charges will not be paid and payment for materials also will not be done. Loading & unloading will be arranged by our transporter. We will not pay any extra charges to you for the same.

7. Delivery: As per given schedule & as & when required basis.

8. Weightment: Weightment will be done at your weighbridge and our weighbridge both. Your weightment will be applicable for material billing purpose & Weightment as per our weighbridge will be applicable for transportation billing purpose.

9. Inspection: Acceptance of supplies shall be subject to our inspection and quality check, particularly with reference to purity. Our finding and decision in this regard shall be final and binding on you. In the event of purity content in any lot being ascertained to be lower than 80% as per our tests, we will not release any payment for the material and freight. However we reserve the right to either reject such a lot or accept the same at a mutually agreed lower rate.

If the material is rejected, it is your responsibility to collect & take back the material from our premises within 7 days.

We shall not responsible for return of material under any circumstances.

Inspection of gypsum will be done on truck to truck basis and not on average basis. Only such trucks will be allowed to Regd Office: Ahura Centre, B-Wing.2nd Floor, Mahakali Caves Road, Andheri(East), Mumbai-400 093
enter our plant premises which are carrying gypsum of acceptable quality. We are not liable to pay any payment for the gypsum rejected by us.

10. We will deduct the amount on Prorata basis from your bill, if we received the materials....

# Contains Purity less than 80%.
# Contains Moisture more than 20%.

11. You will take care that all the trucks should be covered with tarpaulins to avoid any leakage/spillage in route.

12. Force Majeure: Neither party shall be responsible for any loss to the other party whereby they are unable to fulfill full or part of any terms and conditions in the order or prevented or delayed from fulfilling the conditions due to force majeure situations which shall include civil disturbances, floods, strikes fires, government action, war, hostilities (whether declared or not), riots, earthquakes and acts of god etc.

TEST CERTIFICATE:
You will ensure that material is accompanied by all relevant certificate, failing which the material may be liable for rejection

We require order acknowledgement immediately.

For ULTRATECH CEMENT LIMITED
(UNIT: NARMADA CEMENT - MAGDALLA WORKS)

Prepared by  
Checked by  
Authorised Signatories

Regd Office : Ahura Centre, B-Wing,2nd Floor, Mahakali Caves Road, Andheri(East), Mumbai, 400 092.
<table>
<thead>
<tr>
<th>S.NO.</th>
<th>INDEBT NO.</th>
<th>ITEM NO.</th>
<th>DESCRIPTION &amp; SPECIFICATION</th>
<th>UOM</th>
<th>QTY.</th>
<th>RATE Rs.</th>
<th>DISC %</th>
<th>VALUE Rs.</th>
<th>REG. DELIVERY DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0280/101/1</td>
<td>760110</td>
<td>IRON SLUDGE: IRON SLUDGE FROM BARODA</td>
<td>TON</td>
<td>2000.000</td>
<td>0.01</td>
<td>0.00</td>
<td>20.00</td>
<td>31/03/2011</td>
</tr>
</tbody>
</table>

**Other Terms And Conditions:** As per SS: 1.05 Issued on 12-05-2004

- **Loading:** Shall be done by you at your cost
- **Quality:** Fe2O3: 50% Min., So3: Below 3%, FM: 15-20% Max.
- **Transportation:** M/s. Gurukrupa Trading Co. - Sabarmati (A’bad) is our Authorised transporter.
- **Delivery:** As per our requirement

Cost of transportation shown in the purchase order shall be directly paid by us to transporter.

If the material does not conform to our requirement as above. We shall have the right to terminate the order at any moment. Please sign the duplicate copy of this order as token of your acceptance, and send back to us along with copy of GPCB Concept.

**Material Cost:** 20.00
**Freight Amount:** 8,50,000.00
**Total value:** 8,50,020.00
Vendor Code 137360
BODEL CHEMICALS LTD. UNIT-VII
BLOCK NO. 804,807,832, MAIN ROAD,
PADA, KARAKHADI,
391450 VADODARA
Tel/Fax: 
Email: 

PURCHASE ORDER
PO number/date
GCWG:STPO:40046426:UKC::
Gujarat Cement Works Plant - 1
15.04.2008

CONTRACT NO: 4100030858

Please arrange to supply the following materials as per the terms & conditions mentioned here under:

<table>
<thead>
<tr>
<th>Item No</th>
<th>Material Code</th>
<th>Order Qty</th>
<th>Base Unit</th>
<th>Basic Price</th>
<th>Discount</th>
<th>Net Price</th>
<th>Ord Unit</th>
<th>Ord Pr Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>IRONORE1</td>
<td>1,000.000</td>
<td>TON 0.01</td>
<td>0.00%</td>
<td>10.00</td>
<td>1</td>
<td>TON</td>
<td></td>
</tr>
</tbody>
</table>

IRON ORE1
Rel. ord. against contract 4100030858 Item 00001

TOTAL VALUE (excluding duties & taxes): 10.00 INR

Total Value in Words: Rs. Ten and Paise zero Only.

TERMS & CONDITIONS:

1. MATERIAL: IRONORE from Baroda as per following specifications:
   * IRON SLUDGE WITH MOISTURE CONTENT NOT MORE THAN 15%.
   * FE203 ABOVE 75%
   * NON MAGNATIC

2. RATE: Rs.0.01 per MT inclusive of Excise duty @ 16.32% and VAT @ 4%, Ex-your works.

3. QUANTITY: 1000 MTs

The above mentioned quantity is our tentative requirement and should not be considered as firm committed order quantity. The order shall be continued only and only if you supply the materials of quality as per specifications mentioned, on regular basis. In case of your failure to supply the material as per specifications given, the order shall be cancelled immediately. In such case of cancellation of order, the unexecuted/balance quantity shall be considered as cancelled. No claim from you shall be entertained by us on any ground in case of cancellation of order.

4. Transportation will be done by M/s Gurukrupa Trajanmg co.. from Ahmedabad to our works and unloading at works.

5. We will deduct the amount on prorata basis from the bill of
transporter

# if received material contain moisture more than 15%
# if received material contain Fe2O3 less than 75%.

6. DELIVERY : As and when required basis.

7. WEIGHTMENT: Weighment will be done at our weighbridge. Our weighment will be final and applicable for billing purpose.

9. FORCE MAJEURE: Neither party shall be responsible for any loss to the other party whereby they are unable to fulfill full or part of any terms and conditions in the order or prevented or delayed from fulfilling the conditions due to force majeure situations which shall include civil disturbances, floods, strikes, fires, Government action, war, hostilities (whether declared or not), riots, earthquakes and acts of God etc.

10. GOVT. RULES & REGULATIONS:
You shall strictly follow all Government Rules and Regulations. We shall not be responsible for any violations of such provisions by you or your employees at any time. You shall keep us indemnified in this regard at all times.

11. ARBITRATION:
In case of any dispute arising due to difference of opinion in interpretation of any clause or terms and conditions or meaning of the word or language the decision of our President (Works) shall be treated as final and binding on both parties.

12. ENVIRONMENTAL OBLIGATIONS:
You shall ensure that the environmental laws applicable for transportation are abided. This includes:

a) There should be no spillage of material during transit.

b) The vehicle should be road worthy and comply with the pollution
control requirements as shall be applicable.

13. JURISDICTION:
In case of any legal matters, the jurisdiction shall be Amreli Court.

14. FORCE MAJEURE: Neither party shall be responsible for any loss to the other party whereby they are unable to fulfill full or part of any terms and conditions in the order or prevented or delayed from fulfilling the conditions due to force majeure situations which shall include civil disturbances, floods, strikes, fires, Government action, war, hostilities (whether declared or not), riots, earthquakes and acts of God etc.

15. TERMINATION:
This purchase order may be terminated by either party by giving one month's written notice without assigning any reasons thereof. We reserve the right to terminate the order (Contract) forthwith without any notice period/assigning reasons thereof requirements and such termination shall be effective immediately on our issuing letter of the termination thereof. Such termination shall not create any claim for damages or any liabilities upon the Company.

Kindly return us the duplicate copy of this contract duly signed as a token of your acceptance of the above rates terms and conditions.

Delivery date: 15.04.2008
Terms of delivery: Rates are FOR Vendor's town VADODARA
Terms of payment: 100% WITHIN 07 DAYS OF RECEPT&ACCEPT OF MATL&BILL
Vendor Code 137360
BODEL CHEMICALS LTD. UNIT-VII

CST NO: 24631300430 DTD. 23/04/2004
LST NO: 24131300430 DTD. 23/04/2004
ECC NO: AAACL6442LXM007
PAN NO:

PO number/date
GCWG: STPO: 40046426: UKC:
15.04.2008

for UltraTech Cement Limited
Gujarat Cement Works Plant - 1

Authorised Signatory
# PURCHASE ORDER

**NO.** PO/000944/2009  
**DATE:** 22-03-2009  
**CELL:** NM  
**OUR ENQ. NO.:**  
**OUR QUOT NO.:**  
**DATE:**

<table>
<thead>
<tr>
<th>SNO</th>
<th>INDENT NO.</th>
<th>ITEM CODE</th>
<th>DESCRIPTION &amp; SPECIFICATION</th>
<th>UOM</th>
<th>QTY.</th>
<th>RATE Rs.</th>
<th>DISC %</th>
<th>VALUE Rs.</th>
<th>REQ. DA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>000085</td>
<td>0600</td>
<td>IRON SLUDGE (ALL OTHER TERMS AND CONDITIONS AS PER ENCLOSED ANNEXURE)</td>
<td>TON</td>
<td>1,000.00</td>
<td>5.00</td>
<td>0.00</td>
<td>5,000.00</td>
<td>30/06/20</td>
</tr>
</tbody>
</table>

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**TERMS & CONDITIONS**

- **A. EXCISE DUTY:** Higher Edu.Cess 1% (CENVATABLE)
- **B. PKG. & FORWARD:** INCLUSIVE
- **C. OTHER CHARGES:** 0.00
- **D. DESPATCH INSTRUCTIONS:** To be despatched by Road / Rail at Supplier's Risk through M/S.

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**H. INSURANCE**

To Ranavav / Porbandar (at our Factory). Please note that we shall not bear the cost of insurance if charged by the Transport Agency. Despatch particulars with necessary details are to be informed to us for insurance by telegram / telex / fax under certificate of post despatch of materials.

---

**PRICE ESCALATION**

Prices are firm in all respects till the full order is executed and no price escalation will be allowed for any reason whatsoever.

---

**NAME OF BANKERS**

M/s. Central Bank of India, M.G. Road/Vijaya Bank, S.T. Road, Porbandar-360057. We will bear only our Bank Charges.

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**SALE TAX NO.**

NEW SALES TAX CST NO. 24610200056 Dt. 13-09-05. G.S.T. TIN NO. 24110200056 Dt. 13-09-05.

---

**EXCISE DETAILS**


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**OTHER TERMS & CONDITIONS**

- Please see reverse of this P.O. Invoice as per Rule, 42 of Gujarat VAT rules 2006 must be issued else the amount of tax shall not be paid.

---

**FOR SAURASHTRA CEMENT LTD.**

Prepared by: [Signature]  
Checked by: [Signature]  
Date: [Date]
ANNEXURE – B

COPY OF

ENVIRONMENTAL CLEARANCE CERTIFICATE
ANNEXURE - B

Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail: plahujarat@yahoo.com
Telefax: 011: 2436 3973

No. J-11011/613/2007- IA II (I)

Dated: June 12, 2008

To,

M/s Bodal Chemicals Ltd. (Unit-VII)
Plot No. 123-124, GIDC Vatva
Ahmedabad – 382445
Gujarat

Sub : Expansion of Synthetic Organic Dye unit located at village Dudhwada District Vadodara Gujarat by M/s Bodal Chemicals Limited (Unit VII) – environmental clearance reg.

Sir,

This has reference to your letter no. nil dated 11th March, 2008 along with application in Form – I, pre-feasibility report and EI/EMP report seeking environmental clearance for the above project under the Environment impact Assessment Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is for expansion of synthetic organic Dyes Manufacturing unit at Village Dudhwada, Padra Taluka of Vadodara District in Gujarat. The land area available is 14.2 ha out of which 1.5 ha shall be developed as Green Belt. Expansion will be carried within the existing plant premises for which 9.4 ha of area has been earmarked. The Unit proposes to expand the capacity to 1000 MTM for crude synthetic dyes with an addition of 500 MTM of Beta Naphthol. No National Park/Wildlife Sanctuary/eco-sensitive area/archaeological site are located within 10 km radius of the plant. The cost of the expansion project is Rs. 25.00 Crores, of which Rs. 2.2 Crores will be for environmental protection measures.

3. It is noted that total water requirement after expansion will be 1400 m³/day which will be sourced from Bore well within the plant premises. The waste water generation will increase from 270 m³/d to 700 m³/d after the expansion which will be treated in ETP up to tertiary treatment through activated charcoal and shall be disposed of into channel project leading to sea. Presently 143 m³/d concentrated stream of effluent is incinerated and dilute stream is treated in ETP up to GPCB discharged norms. Mother liquor generated from H-Acid and Vinyl sulphone will be incinerated. For dilute stream of washing wastewater, primary treatment will be provided. Concentrated stream will be segregated from other dilute stream for beta naphthol which will have different collection tanks. The power requirement for the project is 3000 KVA which will be sourced from Madhay Gujarat Vij Co. Ltd. (GEB). Multi-cyclone will be provided for control of SPM emissions from the coal fired boiler and IBR stream boilers. Two-stage Cyclone separator followed by water scrubber shall be provided for Spray dryer and Synthetic Organic Dyes Units. SO₂ will be generated from Beta naphthol unit which will be circulated to other process vessels for reuse. Ventury scrubber followed by three stage counter current Alkali scrubber shall be provided for process vents from Sulphonators, Nitrators and Isolators. Ventury scrubber followed by two stage Caustic Soda scrubber would be provided for process vents from neutralizers. Packed Column followed by two ventury scrubber followed by Alkali Scrubber shall be provided for process vents from
Sulphonators. ETP sludge generation shall increase from 90 MTM to 210 MTM which will be disposed off to TSDF of Nandesari or sold to Cement Manufacturing Unit. Presently the unit is generating 1350 MTM of process sludge, 315 MTM of Iron Sludge, 75 MTM of Incinerator ash, 1500 MTM of Spent Sulphuric Acid, 390 MTM of HCl which is being sent to TSDF of Nandesari or sold. There will be no generation of incineration ash, process sludge, spent Sulphuric Acid and Hydrochloric Acid due to expansion. 2 MTM of Distillation residue due to expansion shall be sent to CHWI Facility at Nandesari for incineration. Waste/used oil shall be sold to Registered Recyclers and Discarded Containers/ Empty bags /Barrels etc. shall be decontaminated or reused for storage of waste for disposal into TSDF Site.

5. The project activity is listed at S.N. 5(f) under Category ‘A’. The proposal was considered and appraised at centre in 81st meeting of the Expert Appraisal Committee (Industry) held during 12-14th May, 2008. Public hearing of the project was held on 4th March, 2008.

6. Based on the information submitted by the Project Authorities, the Ministry of Environment and Forests hereby accords the environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to compliance of the following specific and general conditions:

A SPECIFIC CONDITIONS:

i. The effluent generation shall not exceed 700 m3/d. The process effluent after primary, secondary and tertiary treatment and meeting the prescribed standards shall be disposed of ECP channel leading to sea. The domestic waste water shall be disposed of through septic tank/soak pit. There shall be segregation of concentrated stream from dilute stream i.e stream from the utility and washing section. The concentrated stream shall be incinerated and dilute stream shall be treated in ETP upto GPCB discharge norms.

ii. Process emissions in the form of HCl and SO2 from the process vents shall be scrubbed with ventury scrubber followed by three state counter current alkali scrubber. Monitoring for VOCs and HC shall be carried in the work zone and data submitted to the State Pollution Control Board/RO of the Ministry.

iii. Particulate emissions from the IBR steam boiler and hot air generator shall be controlled by multicyclone dust collector and emissions shall be conform to the prescribed standards. Two stage cyclone separator followed by wet scrubber shall be installed to control the process gas emissions from the spray dryer. To control the emissions from the boiler and DG set shall be controlled by stack height as per the CPCB standards.

iv. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by GPCB.

v. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

vi. The project authorities shall develop greenbelt in 33% of project area as per the guidelines of CPCB to mitigate the effect of fugitive emissions.
vii. Adequate financial provision shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purpose.

viii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

ix. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

x. The company shall undertake waste minimization and water conservation measures.

xi. Rainwater harvesting measures shall be undertaken to control the fresh water consumption and recharge the ground water.

B. GENERAL CONDITIONS

i. The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.

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.

iii. The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.

iv. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.

v. For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.

vi. The company shall undertake following Waste Minimization measures :-

   • Metering of quantities of active ingredients to minimize waste.
   • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
   • Maximizing recoveries
   • Use of automated material transfer system to minimize spillage.
   • Use of “Closed Feed” system into batch reactors.

vii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes.
viii. 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

ix. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.

x. The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry’s Regional Office / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.

xi. 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 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 Ministry's 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 start of the project.

7. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.

9. 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.


(Dr. P L Ahujraai)
Director
Copy to:

1. The Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar-382 010, Gujarat.
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.

6. Guard File
7. Monitoring File
8. Record File.

(Dr.P.L. Ahujarai)
Director
ANNEXURE – C

COPY OF CONSENT TO OPERATE
GUJARAT POLLUTION CONTROL BOARD
Paryavaran Bhavan
Sector-10-A, Gandhinagar - 382 010.
Fax : (079) 23232156
Website : www.gpcb.gov.in

NO:GPCB/CCA-VRD-905(2)/23496

21 OCT 2009 By R.P.A.D.

Amendment to CONSENTS AND AUTHORIZATON Order No. 9906, dtd. 19-12-2007
(Under the provisions/rules of the aforesaid environmental acts)

To,
M/s. BODAL CHEMICALS LIMITED (UNIT-VII),
PLOT NO. 804,805,807 TO 822,824 TO 839 & 849,
VILLAGE- DHDHWADA, TALUKA PADRA,
DISTRICT VADODARA.

In exercise of the power conferred under Section-25 of the Water (Prevention and
Control of Pollution) Act-1974, under Section-21 of the Air (Prevention and Control of
Pollution) Act-1981 and Authorization under rule 3(c)& 5(5) of the Hazardous Waste
framed under the E (P) Act-1986, the Board has granted consolidated consent Authorization
vide order No. 9906, vide letter No. GPCB/CCA-VRD-905/34555, dated 19/12/2007 under
the provisions / Rules of the aforesaid Acts.

And whereas Board has received your online application for the amendment of
Consolidated Consent and Authorization (CC&A) of this Board under the provisions/rules of
the aforesaid Acts, CC&A order no. 9906 is hereby amended as below:

(A) The condition no. 2 is amended to include following products as below:

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Product</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ramazoil Dyes such as Black Mix, Black-5</td>
<td>500 MT/Month</td>
</tr>
<tr>
<td>2.</td>
<td>Reactive Dyes such as Reactive Red 195,</td>
<td>250 MT/Month</td>
</tr>
<tr>
<td></td>
<td>Reactive Yellow 145.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Direct Dyes such as Acid Black 194, Acid Black 210, Direct Black 22</td>
<td>250 MT/Month</td>
</tr>
<tr>
<td>4.</td>
<td>Beta Napthol.</td>
<td>500MT/Month.</td>
</tr>
</tbody>
</table>

(B) SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS:
Applicant shall comply with all the conditions stipulated by the MOEF in the order of
Environment Clearance issued vide letter No. J-11011/613/2007-IA II (I) dated 12 -6-
2008.

(C) Condition no. 3.1 is amended as the quantity of the industrial effluent to be generated
from the manufacturing process & other ancillary industrial operations after the
proposed expansion shall not exceed 622 m3/day (instead of 145 KL/Day), which
includes concentrated effluent streams of 148 m3/day & dilute streams of
474m3/day.

(D) The condition no 2 is amended as quantity of the domestic waste-water (sewage) shall
be 8 M3/day instead of 2.5 KL/day.

(E) Condition no. 3.3.1 is amended as, concentrated stream (148 m3/day) shall be segregated &
incinerated totally in double chambered well designed incinerators and there shall be no
discharg of any concentrated effluent.
Conditions no.3.3.2 & 3.3.3 are amended as, other dilute effluent stream 474 m3/day shall be treated separately to conform to the following standards & the final treated effluent confirming to the standards shall be discharged into effluent conveyance channel of M/s. ECPL.

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>ECP INLET NORMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH</td>
<td>6.5 to 8.5</td>
</tr>
<tr>
<td>Temperature</td>
<td>40 °C</td>
</tr>
<tr>
<td>Colour (pt. co. scale) in units</td>
<td>100 units</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>100 mg/l</td>
</tr>
<tr>
<td>Oil and Grease</td>
<td>10 mg/l</td>
</tr>
<tr>
<td>Phenolic compound</td>
<td>1 mg/l</td>
</tr>
<tr>
<td>Cyanide</td>
<td>0.2 mg/l</td>
</tr>
<tr>
<td>Fluorides</td>
<td>1.5 mg/l</td>
</tr>
<tr>
<td>Sulphides</td>
<td>2 mg/l</td>
</tr>
<tr>
<td>Ammonical Nitrogen</td>
<td>50 mg/l</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.2 mg/l</td>
</tr>
<tr>
<td>Total chromium</td>
<td>2 mg/l</td>
</tr>
<tr>
<td>Hexavelent chromium</td>
<td>0.1 mg/l</td>
</tr>
<tr>
<td>Copper</td>
<td>3 mg/l</td>
</tr>
<tr>
<td>Lead</td>
<td>0.1 mg/l</td>
</tr>
<tr>
<td>Nickel</td>
<td>3 mg/l</td>
</tr>
<tr>
<td>Zinc</td>
<td>5 mg/l</td>
</tr>
<tr>
<td>BOD (5 days at 20°C)</td>
<td>100 mg/l</td>
</tr>
<tr>
<td>COD</td>
<td>250 mg/l</td>
</tr>
<tr>
<td>Chlorides</td>
<td>600 mg/l</td>
</tr>
<tr>
<td>Sulphates</td>
<td>1000 mg/l</td>
</tr>
<tr>
<td>Total dissolved solids</td>
<td>5000 mg/l</td>
</tr>
<tr>
<td>Insecticides/Pesticide</td>
<td>Absent</td>
</tr>
<tr>
<td>Bio-assay test</td>
<td>90% Survival of fish after 96 hours in 100% effluent</td>
</tr>
</tbody>
</table>

**CONDITIONS UNDER THE AIR ACT:**

**Condition no. 4.1** is amended to include following fuel.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Fuel</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Coal</td>
<td>120 MT / Day</td>
</tr>
</tbody>
</table>

**Condition no 4.2.1** is amended to include following stacks.

<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Stack attached to</th>
<th>Stack Height (m)</th>
<th>Air pollution control system.</th>
<th>Parameter</th>
<th>Permissible Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>IBR Stream Boiler</td>
<td>30</td>
<td>Multi cyclone Separator.</td>
<td>Particulate Matter SO₂ NOₓ</td>
<td>150 mg/Nm3 100 ppm 50 ppm</td>
</tr>
<tr>
<td>2.</td>
<td>Hot Air Generator</td>
<td>30</td>
<td>Multi cyclone Separator</td>
<td>Particulate Matter SO₂ NOₓ</td>
<td>150 mg/Nm3 100 ppm 50 ppm</td>
</tr>
</tbody>
</table>
GUJARAT POLLUTION CONTROL BOARD
Paryavaran Bhavan
Sector-10-A, Gandhinagar - 382 010.
Fax : (079) 23232156
Website : www.gpcb.gov.in

(I) Condition no 4.2.2 is amended to include following process stacks:

<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Stack Attached To</th>
<th>Stack Height in Meter</th>
<th>Air Pollution Control System</th>
<th>Parameter</th>
<th>Permissible Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Spray Dryers. (4 Nos.)</td>
<td>25</td>
<td>Two Stage cyclone separator followed by Wet scrubber.</td>
<td>Particulate matter.</td>
<td>150 mg/NM3</td>
</tr>
<tr>
<td>2</td>
<td>Fusion vessel.</td>
<td>15</td>
<td>Alkali scrubber.</td>
<td>SO2</td>
<td>40 mg/NM3</td>
</tr>
</tbody>
</table>

(J) CONDITION UNDER HAZ WASTE RULES.
Condition no 6.1.1 is amended to included ultimate quantity of following Haz. waste than what is prescribed in earlier CCA no. 9906 dated. 19-12-2007.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Waste</th>
<th>Quantity</th>
<th>Category of HW</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ETP Sludge</td>
<td>400-425 MT/M</td>
<td>34.3</td>
<td>Collection, Storage, &amp; Disposal at TSDF site or sell out to cement manufacturing units.</td>
</tr>
<tr>
<td>2</td>
<td>Incineration ash</td>
<td>85 MT/M</td>
<td>36.2</td>
<td>Collection, Storage, &amp; Disposal at TSDF</td>
</tr>
<tr>
<td>3</td>
<td>Distillation residues</td>
<td>1.5-2 MT/M</td>
<td>36.4</td>
<td>Disposal to CHWI facility.</td>
</tr>
<tr>
<td>4</td>
<td>Used Oil</td>
<td>100 Ltr/Yr</td>
<td>5.1</td>
<td>Collection, Storage and selling to recyclers authorized by CPCB.</td>
</tr>
<tr>
<td>5</td>
<td>Discarded containers / Barrels/liners</td>
<td>17,000 Nos/M</td>
<td>33.3</td>
<td>Collection, Storage and selling To registered refiners</td>
</tr>
</tbody>
</table>

(K) The validity and other conditions of the said CC&A order no. 9906, dated 19-12-2007 shall remain unchanged.

For and on behalf of
Gujarat Pollution Control Board

[Signature]
J. R. MEHTA
ENVIRONMENTAL ENGINEER
Amendment to CONSENTS AND AUTHORISATION Order No:- 31081 dtd. 18/10/2008
(Under the provisions/rules of the aforesaid environmental acts)

To,

Ms. BODAL CHEMICALS LIMITED (UNIT-VIII),
BLOCK NO. 106-108, VILL. EKALBARA,
TAL. PADRA, DIST. VADODARA.


And whereas Board has granted consolidated consent Authorization (CC&A) vide order no. 31081 vide letter No. GPCB/CC&A-VRD-238/ 25369 dated 18/10/2008 under the provisions of the aforesaid Acts / Rules.

And whereas Board has received your letter no. Nil dated 27/11/2008 for the amendment of Consolidated Consent and Authorization (CC&A) of this Board under the provisions/rules of the aforesaid Acts, CC&A order no. 31081 is hereby amended as below:

(1) The condition no. 6.3 is amended for ultimate disposal of hazardous wastes at TSDF developed by Ms. Green Environment Services Co-op. Society Ltd., VATva, Ahmedabad instead of Ms. NECL, Vadodara.

The other conditions of the CC&A order no. 31081 dated 18/10/2008 remains unchanged.

For and on behalf of
Gujarat Pollution Control Board

[Signature]

ENVIRONMENTAL ENGINEER
Amendment to CONSENTS AND AUTHORISATION Order No:- 9906
(Under the provisions/rules of the aforesaid environmental acts)
Dtd: 19-12-2007

To,
M/S BODAL CHEMICALS LIMITED (UNIT – VII),
PLOT NO. 804, 805, 807 TO 822, 824 TO 839 & 849,
VILLAGE – DUDHWADA, TALUKA PADRA,
DISTRICT VADODARA


And whereas Board has granted consolidated consent Authorization (CC&A) vide order No. 9906 vide letter No- GPCB / CCA-VRD-905 / 34555, Dated 19/12/2007 under the provisions. Rules of the aforesaid Acts.

And whereas Board has received your application letter No NIL, dated 6/12/2007 for the amendment of consolidated consent and Authorization(CC&A) of this Board under the provisions/rules of the aforesaid Acts. Consents & Authorization are hereby amended as under subjected to amendment for the following conditions only.

(1) The condition no: 4.1 & 4.2.1 for Incinerator no. 1 and Incinerator No. 2 are amended as under:

4.1 The following shall be used as fuel in boiler / furnace / heater respectively.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Fuel</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Furnace Oil (Incinerator No. 1)</td>
<td>0.25 KL / Hour</td>
</tr>
<tr>
<td>2.</td>
<td>Furnace Oil (Incinerator No. 2)</td>
<td>0.10 KL / Hour</td>
</tr>
</tbody>
</table>

4.2.1. The flue gas emission through stack attached to boiler / furnace shall conform to the following standards:

<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Stack Attached To</th>
<th>Stack Height In Meter</th>
<th>Air Pollution Control Measures</th>
<th>Parameter</th>
<th>Permissible Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Incinerator No 1</td>
<td>30 (Common Stack)</td>
<td>Quenching followed by Venturi Scrubber followed by Spray Tower</td>
<td>Particulate matter</td>
<td>150 mg/NW m^3</td>
</tr>
<tr>
<td></td>
<td>Incinerator No 2</td>
<td></td>
<td></td>
<td>SO₂</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NOₓ</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

(2) The condition : No.6.1.1 & 6.1.2 mentioned under the head AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES is amended as under:
6.1.1 M/s. BODAL CHEMICALS LIMITED (UNIT – VII) is hereby granted an authorization to operate facility for following hazardous wastes in the premises situated at ___ in place of wastes mentioned at Sr. No. 1,
2 & 3, condition no. 6.1.1 of said C. C. & A. order:

<table>
<thead>
<tr>
<th>Sr</th>
<th>Waste</th>
<th>Qualities</th>
<th>Schedule</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>neutralization</td>
<td>Month</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Month</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(3) The name of TSDF mentioned at condition no. 6.1.2 of the said authorisation order is amended as GESCSL, Vidvai, Ahmedabad in place of M/s Nandesari Enviro Control Ltd., Nandesari, Dist. Vadodara.

The order conditions of the CC&A orders No- 9906, dated: 19-12-2007 shall remain unchanged.

For and on behalf of
Gujarat Pollution Control Board

[J. D. KALYAN]
VC ENVIRONMENTAL ENGINEER

Issued to:-
M/S BODAL CHEMICALS LIMITED (UNIT – VII),
PLOT NO. 604, 605, 607 TO 622, 624 TO 639 & 649,
VILLAGE – DUDHWADA, TALUKA PADRA,
DISTRICT VADODARA

And whereas Board has received consolidated consent application No.1019, dtd: dated 6-7-2007 and subsequent correspondence thereof for the Consolidated Consent and Authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consent & Authorization are hereby granted as under:

CONSENT AND AUTHORISATION:
(under the provisions / rules of the aforesaid environmental acts)

To,
M/s. BODAL CHEMICALS LIMITED (UNIT – VII),
PLOT NO. 804, 805, 807 TO 822, 824 TO 839 & 849,
VILLAGE – DUDHWADA, TALUKA PADRA,
DISTRICT VADODARA.

2. The consents shall be valid up to 05-07-2012 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following items / products / by-products:

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Product</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>H ACID</td>
<td>150 MT/Month</td>
</tr>
<tr>
<td>2.</td>
<td>VINYL SULPHONE</td>
<td>200 MT/Month</td>
</tr>
<tr>
<td>3.</td>
<td>ACETANILIDE</td>
<td>150 MT/Month</td>
</tr>
<tr>
<td></td>
<td><strong>By-Products</strong></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>HCl (30 %)</td>
<td>220 TO 390 MT/Month</td>
</tr>
<tr>
<td>2.</td>
<td>SPENT H2SO4</td>
<td>1400 TO 1500 MT/Month</td>
</tr>
<tr>
<td>3.</td>
<td>GLAUBER SALT (FRM VS PLANT)</td>
<td>90 MT/Month</td>
</tr>
<tr>
<td>4.</td>
<td>GLAUBER SALT (FROM H ACID PLANT)</td>
<td>150 MT/Month</td>
</tr>
<tr>
<td>5.</td>
<td>ACETIC ACID</td>
<td>35 MT/Month</td>
</tr>
<tr>
<td>6.</td>
<td>GYPSUM SLUDGE</td>
<td>850 MT/Month</td>
</tr>
</tbody>
</table>

3. CONDITIONS UNDER THE WATER ACT:

3.1 The quantity of trade effluent from the R.O. Plant and Utilities Plant shall not exceed 145 Kilo Lits/day.
3.2 The quantity of trade effluent generation from the industrial operation (processing) shall not exceed 123 Kilo Lits/day, which shall be totally incinerated in incinerator as per CPCB guidelines and hence there shall be zero discharge of trade effluent generation from the industrial operation (processing) from your industry.
3.3 The quantity of Sewage effluent from the factory shall not exceed 2500 lits/day.
TRADE EFLFEUNT:

3.3.1 The concentrated and toxic effluent stream generated as per condition no. 3.2 above shall be segregated and completely incinerated in a well designed incinerator.

3.3.2 The effluent from the R.O. Plant and the Utilities Plant as per condition no. 3.1 shall conform to the ECPL inlet norms mentioned below.

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>ECP INLET NORMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>6.5 to 8.5</td>
</tr>
<tr>
<td>Temperature</td>
<td>40°C</td>
</tr>
<tr>
<td>Colour (pt.co.scale) in units</td>
<td>100 units</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>100 mg/l</td>
</tr>
<tr>
<td>Oil and Grease</td>
<td>10 mg/l</td>
</tr>
<tr>
<td>Phenolic Compounds</td>
<td>1 mg/l</td>
</tr>
<tr>
<td>Cyanides</td>
<td>0.2 mg/l</td>
</tr>
<tr>
<td>Fluorides</td>
<td>1.5 mg/l</td>
</tr>
<tr>
<td>Sulphides</td>
<td>2 mg/l</td>
</tr>
<tr>
<td>Ammonical Nitrogen</td>
<td>50 mg/l</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.2 mg/l</td>
</tr>
<tr>
<td>Total Chromium</td>
<td>2.0 mg/l</td>
</tr>
<tr>
<td>Hexavalent Chromium</td>
<td>0.1 mg/l</td>
</tr>
<tr>
<td>Copper</td>
<td>3 mg/l</td>
</tr>
<tr>
<td>Lead</td>
<td>0.1 mg/l</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.01 mg/l</td>
</tr>
<tr>
<td>Nickel</td>
<td>3 mg/l</td>
</tr>
<tr>
<td>Zinc</td>
<td>5 mg/l</td>
</tr>
<tr>
<td>BOD (3 days at 27°C)</td>
<td>100 mg/l</td>
</tr>
<tr>
<td>COD</td>
<td>250 mg/l</td>
</tr>
<tr>
<td>Chlorides</td>
<td>600 mg/l</td>
</tr>
<tr>
<td>Sulphates</td>
<td>1000 mg/l</td>
</tr>
<tr>
<td>Total dissolved solids</td>
<td>5000 mg/l</td>
</tr>
<tr>
<td>Insecticides/Pesticides</td>
<td>Absent</td>
</tr>
<tr>
<td>Bio-assay test</td>
<td>90% Survival of fish after 96 hours in 100% effluent.</td>
</tr>
</tbody>
</table>

3.3.3 The final treated effluent from the R.O. Plant & the Utilities Plant confirming to the above standards shall be discharged into effluent channel project of M/s ECPL and shall ultimately be conveyed up to the estuary of river Mahi.

3.3.4 You shall provide separate energy meter for the Effluent Treatment Plant and Incinerators.

3.3.5 Different colour coding shall be done for both type of the effluent lines i.e. effluent line conveying process waste water (zero disposal) and the effluent lines conveying waste water of the R.O. Plant & Utilities Plant.
3.3.6 Adequate effluent sampling points shall be provided at Effluent Treatment Plant outlet as well as disposal point at effluent channel project.

3.3.7 You shall maintain daily log book with details of products / by products manufacture, its quantity, water consumption, waste water generation, waste water incinerated, fuel used in incinerator, incineration ash generated, power consumed etc and keep it ready for inspection all the time in your factory.

3.3.8 Domestic effluent shall be disposed off through septic tank / soak pit system

4. CONDITIONS UNDER THE AIR ACT:

4.1 There shall be used as fuel in boiler / furnace / heater respectively:

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Fuel</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Lignite / Coal (For IBR Boiler-1)</td>
<td>1.25 MT/ Hour</td>
</tr>
<tr>
<td>2.</td>
<td>Lignite / Coal (For IBR Boiler – 2)</td>
<td>1.25 MT/ Hour</td>
</tr>
<tr>
<td>3.</td>
<td>Lignite / Coal (For Thermic Fluid Heater)</td>
<td>0.5 MT/ Hour</td>
</tr>
<tr>
<td>4.</td>
<td>Coal (For Incinerator – 1)</td>
<td>0.2 MT/ Hour</td>
</tr>
<tr>
<td>5.</td>
<td>Furnace Oil (For Incinerator – 1)</td>
<td>0.15 Kls/ Hour</td>
</tr>
</tbody>
</table>

4.2 The applicant shall install & operate air pollution control system in order to achieve norms prescribed below.

4.2.1 The flue gas emission through stack attached to boiler / furnace / heater shall conform to the following standards:

<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Stack attached to</th>
<th>Stack height in Meter</th>
<th>Air Pollution Control Measures</th>
<th>Parameter</th>
<th>Permissible Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>IBR Boiler No. 1, IBR Boiler NO. 2, Thermic Fluid Heater</td>
<td>37 (Common Stack)</td>
<td>Multidiones Multidiones Multidiones</td>
<td>Particulate matter SO₂ NOₓ</td>
<td>150 mg/NM(^3) 100 ppm 50 ppm</td>
</tr>
<tr>
<td>2.</td>
<td>Incinerator No 1</td>
<td>30 (Common Stack)</td>
<td>Ventury Scrubber, Cyclone Ventury Scrubber</td>
<td>Particulate matter SO₂ NOₓ</td>
<td>150 mg/NM(^3) 100 ppm 50 ppm</td>
</tr>
</tbody>
</table>

4.2.2 The process emission through various stacks / vent of reactors, process, vessel shall conform to the following standards:

<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Stack attached to</th>
<th>Stack height in Meter</th>
<th>Air pollution control system</th>
<th>Parameter</th>
<th>Permissible Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chlorosulphonator and dumping vessel (VS Plant)</td>
<td>15</td>
<td>Three Stage Water Scrubber and an alkali scrubber</td>
<td>SO₂ HCl</td>
<td>40 mg/NM(^3) 20 mg/NM(^3)</td>
</tr>
</tbody>
</table>
2. Neutralization Vessels – 3 nos. (H Acid) | 15 | Two stage alkali scrubber | NOx | 25 mg/NM$^3$
3. Isolation Vessel – 4 Nos., Sulphonator, Spent acid storage tank (H Acid) | 15 | Three stage alkali scrubber | SO2 NOx | 40 mg/NM$^3$ 25 mg/NM$^3$

4.2.3 The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder:

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>PERMISSIBLE LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspended Particulate Matter</td>
<td>200 microgram per cubic meter</td>
</tr>
<tr>
<td>RSPM</td>
<td>100 microgram per cubic meter</td>
</tr>
<tr>
<td>Oxides Of Sulphur</td>
<td>80 microgram per cubic meter</td>
</tr>
<tr>
<td>Oxides Of Nitrogen</td>
<td>80 microgram per cubic meter</td>
</tr>
<tr>
<td>HCI</td>
<td>200 microgram per cubic meter</td>
</tr>
</tbody>
</table>

4.3 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to and use of Board’s staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.

4.4 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 standards in respect of noise to less than 75db(a) during day time and 70db(A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

5. **SPECIFIC CONDITIONS:**

5.1 The Waste mother liquor shall be subjected to Na$_2$SO$_4$ recovery before incineration. The recovered Na$_2$SO$_4$ either be reused in the process which would reduce soda as consumption or sold to the potential users.

5.2 The weak waste water streams consisting of floor washing, filter press washing etc. shall be reused in the plant after desired treatment. In no case effluent shall be discharged.

5.3 All the solid wastes (Gypsum, iron, Effluent Treatment Plant sludge and incineration ash) shall be stores on covered pucca floor with seepage collection system, before its final disposal.

5.4 The Gypsum Sludge shall either be disposed, after proper washing, in secured landfill or sold to the user industries. In both the cases, proper manifest system shall be followed.

5.5 Use of iron sludge by Paint industries shall be explored.

5.6 The industry shall have trained personnel for operation and maintenance of pollution control systems on sustained basis.

5.7 Pucca flooring within the plant and proper collection of waste water shall be provided.

5.8 The industries shall monitor ground water quality in and around the plant premises to check its contamination through leachate due to improper handling of effluent and/or solid wastes.
5.9 The industry shall explore the possibilities to minimize / eliminate waste generation by adopting Cleaner Production Technologies.

5.10 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.

5.11 Applicant shall also comply with the general conditions given in annexure I.

6. AUTHORIZATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 3 (c) & 5 (5))

6.1 Number of authorization 9906, date of issue: 18/12/2007.

6.1.1 M/s. BODAL CHEMICALS LIMITED (UNIT – VII) is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at PLOT NO. 804, 805, 807 TO 822, 824 TO 839 & 849, VILLAGE – DUDHWADA, TALUKA PADRA, DISTRICT VADODARA.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Waste</th>
<th>Quantity</th>
<th>Category of HW</th>
<th>Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Process sludge from filtration and neutralization</td>
<td>1350 MT/M</td>
<td>26.1</td>
<td>Collection, Storage, Transportation, Disposal at TSDF</td>
</tr>
<tr>
<td>2.</td>
<td>Iron sludge</td>
<td>315 MT/M</td>
<td>26.1</td>
<td>Collection, Storage, Transportation, Disposal at TSDF</td>
</tr>
<tr>
<td>3.</td>
<td>ETP sludge</td>
<td>250-300 MT/M</td>
<td>26.2</td>
<td>Collection, Storage, Transportation, Disposal at TSDF</td>
</tr>
<tr>
<td>4.</td>
<td>Incineration ash</td>
<td>75 MT/M</td>
<td>36.2</td>
<td>Collection, Storage, Transportation, Disposal at TSDF</td>
</tr>
<tr>
<td>5.</td>
<td>Spent sulphuric acid</td>
<td>1400-1500 MT/M</td>
<td>D2</td>
<td>Captivity consumed in H Acid Manufacturing / Sold out to authorized potential consumers</td>
</tr>
<tr>
<td>6.</td>
<td>HCl (30%)</td>
<td>390 MT/M</td>
<td>D2</td>
<td>Sold out to authorized potential consumers</td>
</tr>
<tr>
<td>7.</td>
<td>Used Oil</td>
<td>50 Lts/Year</td>
<td>5.1</td>
<td>Collection, Storage and selling to registered re-refiners</td>
</tr>
<tr>
<td>8.</td>
<td>Discarded containers / barrels / liners</td>
<td>200 Nos./ M</td>
<td>33.1</td>
<td>Collection, storage, decontamination</td>
</tr>
</tbody>
</table>

6.1.2 The authorization is granted to operate a facility for collection, storage, within factory premises, transportation and ultimate disposal of Hazardous wastes at TSDF developed by M/s Nandesari Enviro Control Ltd., Nandesari, Dist. Vadodara.

6.1.3 The authorization shall be in force for a period up to 05-07-2012
6.1.4 The authorization is subjected to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

6.2 TERMS AND CONDITIONS OF AUTHORIZATION:

6.2.1 The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.

6.2.2 The authorization shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.

6.2.3 The persons authorized shall not rent, lend, sell, transfer otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.

6.2.4 Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.

6.2.5 It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.

6.2.6 An application for the renewal of an authorization shall be made as laid down in rule 5 (6) (ii).

6.2.7 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme Court’s Order in W.P. No. 657 of 1995 dtd: 14th October 2003.

6.2.8 Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant including waste water and air emissions and solid hazardous wastes generated within the factory premises.

6.2.9 Industry shall have to manage waste oil, discarded container, etc. as per the amendment rules-2003 and shall apply for authorization for category no. all applicable waste as per amended rules-2003 within 15 days.

For and on behalf of
GUJARAT POLLUTION CONTROL BOAD

(V.R.PATEL)
Environmental Engineer

NO: GPCB / CCA-VRD-905 / 34555

Issued To: -

M/s. BODAL CHEMICALS LIMITED (UNIT – VII),
PLOT NO. 804, 805, 807 TO 822, 824 TO 839 & 849,
VILLAGE – DUDHWADA, TALUKA PADRA,
DISTRICT VADODARA.

19 DEC 2007