TBL **TECKBOND LABORATORIES PVT LTD**

Office: 96/c, LIGH, Vengala Rao Nagar, Hyderabad-500 038, AP, India
Ph: 040-55529837 Fax: 040-55529837, Email: tummalabosebabu@yahoo.com

Ref.: TBLPL/MoEF&CC/EC Validity Extension/JUNE-2016
Date: 30-6-2016

To
The Director and Member Secretary (Industry-2)
Impact Assessment Division
Ministry of Environment, Forests and Climate Change,
Indira Paryawaran Bhawan,
Aliganj, Jor Bagh Road,
New Delhi-110003

Sub: Request for Extension of Validity of EC - M/s. Teckbond Laboratories Pvt. Ltd- Reg.

Ref.:
1. Environmental Clearance vide order F. No. J-11011/191/2009-IA II (I) dated 6-7- 2011.
2. Consent for Establishment issued by PCB vide order no. 374/PCB/CFE/RO-II-RCP/HO/2011 dated 19-12-2011.
3. Consent for Operation vide order no. APPCB/HO/RCP/RCP/10481/CFO&HWM/2013-4303 dated 23-10-2013.

Sir,

This is in continuation to the reference cited above on the aforementioned subject. EC was granted for our project from MoEF vide reference No.1 and obtained Consent for Establishment from PCB vide reference No. 2 for production capacity of 666.67 kg/day. Later Consent for Operation was issued vide reference no. 3 for production capacity of 161.67 kg/day (Phase-I). Copies of EC, CFE and CFO are enclosed along with Updated Form 1.

We are herewith submitting duly filled in Updated Form-I application through online to issue of EC validity extension for our expansion project at Sy. No. 168, 170/A, 170/AA, 173/1 & 173/1A, Anantharam (V), Jinnaram (M), Medak District, Telangana State.

Hence we request you kindly consider our application and grant extension of validity of the EC.

Thanking you,

Yours faithfully,

for Teckbond Laboratories Pvt. Ltd.

T.Bose Babu
(Managing Director)

Encls.: 1. Form 1 with Annexures
2. EC dated 6-7-2011
3. CFE dated 19-12-2011
4. CFO dated 20-10-2013

F. No. J-11011/191/2009- IA II (I)

Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668
Dated 6th July, 2011

To,

Shri T. Bose Babu (Managing Director)
M/s Teckbond Laboratories Pvt. Ltd.
23/C, LIGH, Vengala Rao Nagar,
Hyderabad – 500 038, Andhra Pradesh

E-mail: teckbondlabs@yahoo.com ; Fax No. : 0091 40 23811864

Subject: Expansion of Bulk Drugs Unit at Sy. No.168, 170/A, 170/AA, 173/1 & 173/1A, Village Anantharam, Mandal Jinnaram, District Medak, Andhra Pradesh by M/s Teck Bond Laboratories Pvt. Ltd. – Environmental Clearance reg.

Ref. : Your letter no. TBLPL/MOEF/EC-10 dated 3rd December, 2010.

Sir,

Kindly refer your letter dated 3rd December, 2010 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith public hearing report regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for expansion of Bulk Drugs Unit at Sy. No.168, 170/A, 170/AA, 173/1 & 173/1A, Village Anantharam, Mandal Jinnaram, District Medak, Andhra Pradesh by M/s Teck Bond Laboratories Pvt. Ltd. Total plot area is 2.72 ha which includes existing plot area 2.02 ha and additional acquired land 0.7 ha. No wildlife sanctuary is located within 10 km. Total project cost is Rs. 51.34 Crores. 18 products will be manufactured out of which, any 4 products will be manufactured at a time on campaign basis with maximum capacity of 240 TPA. Following products will be manufactured:

S.N.	Product	Existing (TPA)	Total Capacity after expansion (TPA)
1	Amlodipine Besylate	16.2	60.0
2	Sparfloxacin	12.0	60.0
3	Olanzapine	9.0	60.0
4	Topiramate	7.2	60.0
5	Ethyl-4[2-(1,3-Dioxo-1,3-dihydro-2H-isoindol-2-yl)-ethoxy]-3-oxobutanoate	21.6	30.0
6	5-Amino-1-cyclopropyl-6,7,8-trifluoro-4-oxo-1,4-dihydro-quinoline-3-carboxylic acid ethyl ester	7.2	30.0
7	2-Methyl-4-amino-10H-thieno[2,3-b][1,5] benzodiazepine Hydrochloride	27.0	30.0
8	2,3:4,5-Bis-O-(1-Methyl ethylidene)-β-fructo-pyranose	31.2	42.0

9	2-(4-Methyl-2-phenyl piperazin-1-yl)pyridine-3-carboxylic acid	--	30.0
10	(E)-2(3-{3-[2-(7-Chloro-2-quinolinyl) vinyl]phenyl} -3-oxo propyl) benzoic acid methyl ester	--	20.4
11	N-[(2-Cyano-(1,1'-biphenyl)-4-yl)methyl] valine methyl ester	--	51.0
12	(+)-2-(2-Chlorophenyl)-N-(2-thienyl) ethyl) glycine methyl ester hydrochloride	--	30.0
13	Mirtazapine	--	12.0
14	Montelukast Sodium	--	36.0
15	Loratadine	--	12.0
16	Valsartan	--	60.0
17	Clopidogrel Hydrogensulfate	--	60.0
18	Gabapentin	--	60.0
Total Production Capacity on Worst Combination of products		**58.2 (any two)**	**240 (any four)**
1	Sodium Sulfate	-	81.4
2	Stannic Chloride	-	314.68
3	Alpha pinene	-	33.12

3.0 Multi-cyclone followed by bag filter alongwith adequate stack height will be provided to boiler (10 TPH) to control particulate emission. Adequate scrubbing system will be provided to the process vents to control process emissions. Total fresh water requirement from ground water source will be 165.4 m^3/day. Total industrial wastewater generation will be 46.6 m^3/day and segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated through steam stripper followed by MEE. Low TDS/COD effluent stream will be treated in effluent treatment plant (ETP) comprising primary, secondary and tertiary treatment. No effluent will be discharged outside the premises and 'Zero' effluent discharge concept will be maintained. Inorganic & evaporation salt, evaporation salt from other section and ETP sludge will be sent to Treatment Storage Disposal Facility (TSDF) for hazardous waste. Organic residue and spent carbon will be sent to cement industries/TSDF. Boiler ash will be sold to brick manufacturers.

4.0 Public hearing of the project was held on 19th November, 2010.

5.0 All synthetic organic chemical industries (bulk drugs & intermediates) located outside the notified industrial estate/area are listed at S.N. 5(f) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 94th and 22nd meeting held during 12th–14th May, 2009 and 29th– 30th April, 2011 respectively. The Committee recommended the proposal for environmental clearance.

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 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

i) All the specific conditions and general conditions specified in the earlier environmental clearance accorded vide Ministry's letter no. 11011/280/2008-IA-II dated 10th June, 2008 should be implemented.

ii) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended time to time shall be followed by the unit.

iii) Multi-cyclone followed by bag filter shall be provided to the boilers to control particulate emissions within 100 mg/Nm^3. The waste gasses shall be discharged into atmosphere through stack of adequate height as per CPCB/APPCB guidelines.

iv) Two stage water/caustic scrubber shall be provided to process vents to control HCl emission. Two stage water scrubbers shall be provided to process vents to control NH_3 emission. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters.

v) Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM_{10}, SO_2, NO_X, VOC, NH_3 and HCl shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the AP Pollution Control Board (APPCB).

vi) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the APPCB.

vii) For further control of fugitive emissions, following steps shall be followed :

1. Closed handling system shall be provided for chemicals.
2. Reflux condenser shall be provided over reactor.
3. System of leak detection and repair of pump/pipeline based on preventive maintenance.
4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
5. Cathodic protection shall be provided to the underground solvent storage tanks.

viii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.

ix) Solvent management shall be carried out as follows :

i. Reactor shall be connected to chilled brine condenser system

ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
iv. Solvents shall be stored in a separate space specified with all safety measures.
v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
vi. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.

x) Total fresh water requirement from ground water source shall not exceed 165.4 m^3/day and prior permission shall be obtained from the Central Ground Water Authority/State Ground Water Board.

xi) Total industrial wastewater generation shall not exceed 46.6 m^3/day. Trade effluent shall be segregated into High TDS/COD and Low TDS effluent streams. High TDS/COD effluent stream shall be treated through steam stripper followed by MEE. High TDS effluent stream from utilities shall be passed through RO and rejects shall be evaporated to MEE. Low TDS/COD effluent stream shall be treated in ETP comprising primary, secondary and tertiary treatment. Cyanide effluent shall be detoxified in the detoxification treatment unit. As proposed, sewage will be treated in STP.

xii) No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be adopted.

xiii) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.

xiv) As proposed, organic residue and spent carbon shall be sent to cement industries. ETP sludge, inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers.

xv) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.

xvi) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 *as* amended time to time. All Transportation of Hazardous Chemicals shall be *as per* the Motor Vehicle Act (MVA), 1989.

xvii) Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing alongwith the storm water. Direct exposure of workers to fly ash & dust shall be avoided.

xviii) The company shall undertake following waste minimization measures :-

a. Metering and control of quantities of active ingredients to minimize waste.

b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
c. Use of automated filling to minimize spillage.
d. Use of Close Feed system into batch reactors.
e. Venting equipment through vapour recovery system.
f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

xix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the OISD 117 norms

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

xxi) Green belt shall be developed in 9241 m^2 out of total land 27,200 m^2. Selection of plant species shall be as per the CPCB guidelines.

xxii) All the issues raised during the public hearing/consultation meeting held on 19th November, 2010 shall be satisfactorily implemented.

xxiii) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. GENERAL CONDITIONS:

i. The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.

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 locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

iv. 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).

v. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.

vi. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

vii. Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.

viii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

ix. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.

x. The company shall undertake eco-developmental measures including com

xi. Munity welfare measures in the project area for the overall improvement of the environment.

xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

xiii. As proposed, the company shall earmark Rs. 5.00 Crores and Rs. 2.2 Crores towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

xiv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.

xv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the AP Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

xvii. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://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 concerned Regional Office of the Ministry.

xviii. 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.

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

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.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention &. Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 1989/2003/ 2008 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.

(Dr. P. B. Rastogi)
Director

Copy to:

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Hyderabad, A.P.
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Banglore-560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhawan, A-III, Industrial Estate, Sanath Nagar, Hyderabad - A.P.
5. Adviser, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

6/7/11

(Dr. P. B. Rastogi)
Director

ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A - 3, INDUSTRIAL ESTATE,
SANATHNAGAR, HYDERABAD - 500 018

Phone: 23887500
Fax: 040 – 23815631
Grams : Kalushya Nivarana
Website :www.appcb.ap.nic.in

REGD.POST WITH ACK.DUE

CONSENT ORDER FOR ESTABLISHMENT

Order No. 374/PCB/CFE/RO-II-RCP/HO/2011 Dt.19.12.2011

Sub: PCB – CFE – **M/s. Teck Bond Laboratories Pvt. Ltd., Sy. No. 168, 170/A, 170/AA, 173/1& 173/1A, Anantharam (V), Jinnaram (M), Medak district** – Consent for Establishment of the Board for **Expansion** under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref:
1) Public hearing conducted on 19.11.2010
2) Environmental Clearance dt. 6.7.2011 issued by MOE&F, GOI
3) Industry's application received through SWCC on 24.8.2011 and Addl. Information on 12.9.2011
4) R.O's inspection report dt 13.9.2011
5) CFE committee meeting held on 10.11.2011

1. In the reference 3rd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for expansion to produce the following products with installed capacities as mentioned below with an additional investment of Rs. 51.34 crores.

Existing as per CFO Order Dt 04.09.2008:

Sl. No	Products	Capacity
1	5 – Cyano Phthalide (Stage – IV Product of CITALOPRAM)	66.67 Kgs/day (or) 2 TPM
2	4 – Hydroxy – 1, 1 – Dioxo – 1, 2 – Dihydro – 1 – Lambda 6- Thieno [2, 3 – e][1, 2] – Thiazine – 3 – Carboxylic Acid Methyl Ester (Stage - I of Tinoxicam)	40 Kgs/day (or) 1.2 TPM
3	N - [4 - (2 – Chloro - Propionyl)-Phenyl] – Acetamide (stage I of Levosimendan)	95 Kgs/day (or) 2.85 TPM
4	3, 4 - Diphenyl – 4 – Hydrido – 5 —Hydroxy – 5 – Methyl Isoxazole (Stage II of Veldecoxib)	50 Kgs/day (or) 1.5 TPM

As per CFE Order Dt 06.09.2008/ EC Dt 10.06.2008:

Sl. No.	Products	Capacity
	PROPOSED PRODUCTS	
1	Amlodipine Besylate	45 Kgs/day (or) 1.35 TPM
2	Sparfloxacin	33.33 Kgs/day (or) 1 TPM
3	Olanzapine	25 Kgs/day (or) 0.75 TPM
4	Topiramate	20 Kgs/day (or) 0.6 TPM
5	Ethyl – 4 – [2-(1,3-Dioxo-1, 3-Dihydro – 2H – Isoindol – 2 – yl) - Ethoxy]-3 – Oxobutanoate	60 Kgs/day (or) 1.8 TPM

6	5 – Amino – 1 – Cyclopropyl – 6 , 7, 8 – Trifluoro – 4 – Oxo – 1, 4 – Dihydro – Quinoline – 3 – Carboxylic Acid Ethyl Ester	20 Kgs/day (or) 0.6 TPM
7	2 – Methyl – 4 – Amino – 10H – Thieno [2,3-b][1,5] Benzodiazepine Hydrochloride	75 Kgs/day (or) 2.25 TPM
8	2, 3:4, 5 – Bis – O – (1-Methyl Ethylidene) – b – Fructopyranose	66.67 Kgs/day (or) 2.6 TPM
	Total Proposed Production Capacity	161.67 Kgs/day (or) 4.85 TPM

After Expansion:

The industry shall not produce more than 4 products and capacities mentioned there in at any given point of time.

Sl. No.	Products	Quantity (Kg/day)	No.of stages to be Manu factured	Starting Raw Material / Intermediate	Quantity of Raw Material / Intermediate (Kg/day)
1	Sparfloxacin	166.66	8	Pentafluorobenz oyl Chloride, C7ClF5O	158.33
2	Mirtazapine	33.33	4	1 Methyl-3-phenyl piperazine, C11H16N2	40
3	Topiramate	166.66	2	D-Fructose, C9H16O6	151.67
4	Olanzapine	166.66	4	Propionaldehyde, C3H6O Malanonitrile, C3H2N2	66.67 66.67
5	Amlodipine Besylate	166.66	4	Phthalic Anhydride, C8H4O3	75
6	Montelukast Sodium	100.00	9	7-Chloro quinaldehyde, C10H8ClN	80
7	Loratadine	33.33	10	Methyl Nicotinate, C7H7NO2	50
8	Valsartan	166.66	3	2-Cyano biphenyel-4-carboxaldehyde, C14H9NO	146.67
9	Clopidogrel Hydrogensulfate	166.66	7	2-Chlorophenyl Glycine, C8H8ClNO2	266.67
10	Gabapentin	166.66	4	1,1-Cyclohexane diacetic acid, C10H16O4	316.67
11	5 – Amino – 1 – Cyclopropyl – 6 , 7, 8 – Trifluoro – 4 – Oxo – 1, 4 – Dihydro – Quinoline – 3 – Carboxylic Acid Ethyl Ester	83.33	4	Pentafluorobenz oyl Chloride, C7ClF5O	87.96

12	2-(4-Methyl – 2 – Phenyl piperazin – 1 – yl) pyridine – 3 – carboxylic acid	83.33	2	1-Methyl-3-phenyl piperazine, C11H16N2	56.82
13	2, 3, 4, 5 – Bis – O – (1-Methyl Ethylidene) – b – Fructopyranose	116.66	1	D-Fructose, C9H16O6	106.17
14	2 – Methyl – 4 – amino – 10H – thieno [2,3-b] [1,5] benzodiazepine Hydrochloride	83.33	3	Propionaldehyde, C3H6O Malanonitrile, C3H2N2	33.33 33.33
15	Ethyl – 4 – [2-(1,3-Dioxo – 1, 3 – dihydro – 2 H – iscindol – 23 – yl) –ethoxy] – 3 – oxobutanoate	83.33	2	Phthalic Anhydride, C8H4O3	50.00
16	(E) – 2 – (3 – {3-[2-(7-Chloro – 2 – quinolinyl) vinyl] phenyl} – 3- oxo propyl) benzoic acid methyl ester	56.66	3	7-Chloro quinaldehyde, C10H8ClN	29.25
17	N – [(2 – Cyano – (1, 1' – biphenyl) – 4 – yl) methyl valine methyl ester	141.66	1	2-Cyano biphenyel-4-carboxaldehyde, C14H9NO	117.61
18	(+) – 2 – (2-Chlorophenyl) – N – (2 –thienyl) ethyl) glycine methyl ester hydrochlorice	83.33	5	2-Chlorophenyl Glycine, C8H8ClNO2	123.46
	Maximum Production capacity for 4 products	**666.66 Kg/day**			

2. As per the application, the above activity is to be located within the existing plant premisss located at Sy. No. 168, 170/A, 170/AA, 173/1& 173/1A, Anantharam Village, Jinnaram Mandal, Medak District in an area of 5 Acres.

3 The above site was inspected by the Asst. Environmental Engineer-I, Regional office-II, R.C. Puram, A.P Pollution Control Board on 12.9.2011 and observed that the site is surrounded by

North : Agricultural Lands
South : Road leading to Kanukunta Village followed by Agricultural Lands
East : M/s Shiva Shakthi Bioplantecc
West : Agricultural Lands

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT FOR EXPANSION** to your unit Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'
Schedule 'B'

Sd/-
MEMBER SECRETARY

To,
M/s Teck Bond Laboratories Pvt Ltd., (Expansion),
Sy. No. 173/1, Anantharam Village,
Jinnaram Mandal, Medak District

/// T.C.F.B.O///

JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

SCHEDULE - A

1 Progress on implementation of the project shall be reported to the concerned Regional Office, A.P. Pollution Control Board once in six months.

2. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.

3 The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.

4. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.

5. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.

6 Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.

7 Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall be constructed around storage of chemicals

8. Rain Water Harvesting (RWH) structure (s) shall be established on the plant site The proponent shall ensure that effluent shall not enter the Rain Water harvesting structure.

9 The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.

10. **This order is valid for period of 5 years from the date of issue.**

SCHEDULE – B

Water:

1 The source of water is Borewell. The maximum permitted water consumption after expansion is 165.40 KLD.

S. No.	Purpose	Quantity (KLD)
1	Process & Washings	27.4
2	Boiler, Cooling Tower	120.0
3	DM Plant	1.0
4	Scrubber, Q.C & R .D	6.5
5	Domestic	10.5
	Total	**165.4 KLD**

2 The maximum Waste Water Generation (KLD) after expansion shall not exceed the following:

Sl. No	Source	Quantity (KLD)
1	Process effluents	30.6
2	Boiler blow down & Cooling tower blow down	10.0
3	DM Plant regeneration	1.0
4	Scrubber, QC & R & D	2.0
5	Washings (Reactor, Washings, Containers and Floor mopings)	2.0
6	Domestic	10.0
	Total	56.6 KLD

Treatment & Disposal after expansion:

Source of Effluent	Treatment	Mode of Final disposal
HTDS effluents – 43.6 KLD (Process effluents – 30.6 KLD + Boiler blow down – 6 KLD + Cooling tower blow down – 4 KLD + DM Plant regeneration – 1 KLD + Scrubber, QC & R & D – 2 KLD)	Collection tank, Bard screen, grit chamber, oil& grease trap, equlisation tank, neutralization tan, aeration tank. Steam stripper, MEE, ATFD, RO plant & sludge drying beds.	• Shall be stripped off for organics recovery. • Stripper condensate to distillate for separation of organic compounds followed by disposal to cement plants for co-processing & distilled effluents shall be routed to ETP. • Stripped effluents for forced evaporation in MEE followed by ATFD. • Condensate from MEE & ATFD shall be routed to ETP. • ATFD salts to TSDF. • ETP shall be provided for primary & secondary treatment. • Treated effluents from ETP shall be filtered in the RO Plant. • RO permeate to reuse in cooling towers and RO reject to MEE & ATFD for forced evaporation.
LTDS effluents – 3.0 KLD (Reactor, Washings, Containers and Floor mopings) + Domestic effluents – 10 KLD.	ETP consisting of secondary & tertiary treatment, pressure sand filter, activated carbon filter & RO system.	Treated effluents to reuse in cooling towers.

3. Under no circumstances, treated effluents shall be used for onland application.

4. The industry shall segregate the effluents into HTDS and LTDS streams at source based on the criteria stipulated by the Board vide directions dt. 5.8.2005 and 26.12.2005 for the member units of CETP, Patancheru and Jeedimetla. The segregated effluents at source shall be disposed as per above criteria.

5 Effluents shall not be discharge onland or into any water bodies under any circumstances and zero liquid discharge system shall be adopted and maintained. Provisions shall be made for storage of primary treated trade effluents (HTDS & LTDS) for one day in separate collection tanks constructed above ground level in case of any emergency. The same shall be treated within one day. The collection tank shall be impervious with proper lining to prevent ground water pollution.

6. The industry shall segregate the cyanide bearing and heavy metal bearing effluent separately at source and provision shall be made for adopting treatment of these effluent streams. They shall not mix either in the LTDS effluent and HTDS effluents.

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

8 Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.

a) Industrial cooling, boiler feed.
b) Domestic purposes.
c) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.

9. **The industry shall provide digital flow meters with totalisers at inlet of collection tanks, stripper feed, MEE feed, RO feed and RO flux for measuring the effluent generation, treated and recycled in the process.**

Air:

10. The industry shall comply with the following for controlling air pollution after implementation of expansion.

Sl. No.	Details of Stack	Stack 1	Stack 2	Stack 3	Stack 4
a)	Attached to	Coal Fired Boiler	Coal fired boiler (standby)	Coal Fired Boiler (standby)	DG Set
b)	Capacity	10 TPH	3.0 TPH	1.0 TPH	1 No. x 165 KVA, 1 x 200 KVA & 500 KVA
c)	Fuel quantity	Coal	Coal	Coal	Diesel
d)	Stack Height	30 m	30 m	30 m	2.5 m, 2.8 m & 4.4 m (above roof)
e)	Control Equipment	Multi Cyclone followed by bag filter / wet scrubber	Cyclone Dust collector	Cyclone Dust collector	Acoustic enclosures
f)	Conc. of particulate matter	<115 mg/Nm3	<115 mg/Nm3	<115 mg/Nm3	..

11. **The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoE&F, GoI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.**

12. The proponent shall provide dedicated scrubbers to the process vents to control the process emissions. The industry shall provide online pH monitoring system with auto recording facility to scrubbers provided to treat the process emissions.

13. The industry shall install multi-stage scrubbers for control of NH_3,SO_2, HCl, Bromine and other gaseous emissions. The scrubbed solutions shall be reused to the possible extent. The industry shall keep the record of disposal of all such by-products and shall submit the record to concerned Regional Officer.

14. The industry shall provide the monitoring system to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.

15. Industry shall control fugitive emissions by providing chilled brine circulation, closed room operations and condensers with receivers.

16. Regular monitoring of vents of the storage tanks and work room concentration shall be carried out using sensors.

17. The proponent shall not use odour causing substances or Mercaptans and cause odour nuisance in the surroundings.

18. The proponent shall not send the spent/mixed solvents to the recyclers. They shall process the same at solvent recovery plant within the plant premises. Solvents shall be recovered to the maximum extent possible and shall be reused.

19. The evaporation losses in solvents shall be controlled by taking the following measures:

    i) Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.

    ii) Transfer of solvents shall be done by using pumps instead of manual handling.

    iii) Closed centrifuges shall be used due to which solvent losses will be reduced drastically.

    iv) The reactor vents shall be connected with primary & secondary condensers to catch the solvent vapours

    v) All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapours.

20. Solvent shall be taken from under ground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.

21. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.

Solid Waste:

22. The proponent has furnished the list of the following by-products from the proposed list of products. There shall not be any new pollution load at on-site of the premises resulting in from reception, handling and disposal of these by-products / waste streams at source of the industry. The proponent shall maintain log registers on quantity of waste generation and details of end use of the waste disposed.

Sl. No.	By –Product	Quantity
1	Sodium Sulfate (By product from Topiramate & 2, 3, 4, 5 – Bis – O - (1-Methyl Ethylidene) – b – Fructopyranose)	81.4 TPA
2	Stannic Chloride (Olanzapine & 2 – Methyl – 4 – amino – 10H – thieno [2,3-b] [1,5] benzodiazepine Hydrochloride)	314.88 TPA
3	Alpha Pinene (Montelukast Sodium)	33.12 TPA

23 The proponent shall comply with the following after expansion:

Sl. No.	Name of the Hazardous Waste	Quantity	Disposal Option
1	Organic Residues	1.55 TPD	Shall be o be sent to the Cement industries for being used as alternate fuel in the kiln (or) TSDF for incineration
2	Forced Evaporation Salts (Process & Other section)	3.92 TPD	Shall be sent to TSDF for land filling after stabilization.
3	Spent Carbon	0.07 TPD	Shall be o be sent to the Cement industries for being used as alternate fuel in the kiln (or) TSDF for incineration.
4	ETP Sludge	0.2 TPD	Shall be sent to TSDF for land filling after stabilization.
5	Boiler Ash	16 TPD	Shall be sold to brick manufactures units
6	Sodium Sulphate	81.4 TPA	Shall be sent to TSDF for landfill.

24 The proponent shall place the chemical drums and / any drums on the concrete platform only. The Platform shall be provided with sufficient dyke wall and efficient collection system.

25 Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to effluent collection tank.

26 The following rules and regulations notified by the MoE&F, GoI shall be implemented

a) Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2003.

b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

c) Batteries (Management & Handling) Rules, 2010.

Other Conditions:

27. **The industry shall maintain records on source of intermediates for each product-wise and the consolidated records shall be submitted to concerned Regional Office every month along with invoice copies of the intermediates outsourced.**

28. Existing green belt shall be augmented to cover minimum area of 33% of total project area. Existing Green belt shall not be disturbed in the proposed expansion activity.

29. System of leak detection and repair of pump / pipeline shall be installed in the plant and immediate response team shall be identified for preventive maintenance.

30. **The industry shall provide continuous online VOC monitoring system and shall be networked to APPCB for website display.**

31. The recommendations / commitments made during the Public Hearing held on 19.11.2010 shall explicitly be followed from pollution control point of view.

32. The industry shall comply with all the conditions stipulated in the Environmental Clearance issued vide order dt. 6.7.2011 issued by MOE&F, GOI.

33. The proponent shall communicate a copy of this order and other relevant documents to the MOE&F, GOI, New Delhi for record.

34. The proponent shall ensure that there shall not be any change in the process technology, source of raw material and scope of working without prior approval from the Board.

35. The proponent shall comply with all the directions issued by the Board from time to time.

36. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.

37. The Board reserves its right to modify above conditions or stipulate new / additional conditions and to take action including revoke of this order in the interest of environment protection.

Sd/-
MEMBER SECRETARY

To,
M/s Teck Bond Laboratories Pvt Ltd., (Expansion),
Sy. No. 173/1, Anantharam Village,
Jinnaram Mandal, Medak District

/// T.C.F.B.O///

JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A-3, INDUSTRIAL ESTATE,
SANATHNAGAR, HYDERABAD - 500 018.
Phone: 040-23887500
Fax: 040- 23815631
Website :www.appcb.ap.nic.in

RENEWAL CONSENT & AUTHORISATION ORDER
BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE

Consent Order No : APPCB/HO/RCP/RCP/10481/CFO&HWM/2013-4303 Date:23.10.2013.

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act,1974 and amendments thereof, Operation of the plant under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management & Handling) Rules 1989 & Amendment Rules).

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (M & H) Rules (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to

M/s. Teck Bond Laboratories Private Ltd.,
Sy. No. 173/1, Anantharam Village,
Jinnaram Mandal,
Medak District.
E_mail: teckbondlabsoffice@yahoo.com

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below.

i) Out lets for discharge of effluents *:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1.	High TDS Process & Washings	3.34 KLD	• Forced Evaporation in the FE system. • Condensate first fore run shall be distillated for recovery of solvents at onsite and reuse. • Secondary condensate to recover and reuse for make-up.
2.	LTDS effluents Boiler, Cooling towers make up – 1.2 KLD + DM Plant Re-generation – 0.2 KLD + Domestic effluents after soak pit – 2.0 KLD	3.4 KLD	M/s. CETP, Patancheru after pre-treatment.

*** The industry shall obtain amendment of CFO for effluent quantity as permitted in CFE dt.19.12.2011 after commissioning of ZLD system.**

*** The industry shall stop using the soak pits for final disposal of domestic effluents of 2.0 KLD and shall send these effluents to M/s. PETL, Patancheru along with process effluents after pre-treatment.*

Continued... P/2

ii) Emissions from chimneys # :

Chimney No.	Description of Chimney	Quantity of Emissions in m3/hr. at peak flow
1.	Attached to 3TPH Coal fired Boiler	--
2.	Attached to Process vents.	--
3.	Attached to 1 x 165 KVA + 1 x 200 KVA DG Sets	--

 # The industry shall obtain amendment of CFO for additional 10 TPH & 1 TPH coal fired boilers and 500 KVA DG set as permitted in CFE dt.19.12.2011 after their installation and commissioning of ZLD system.

iii) **HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 5 (4)]**
No. APPCB/HO/RCP/RCP/10481/CFO&HWM/2013

M/s Teck Bond Laboratories Pvt., Ltd., Sy. No. 173/1, Anantharam Village, Jinnaram Mandal, Medak District is hereby granted an authorisation to operate a facility for collection, reception, storage, transport and disposal of the following wastes with quantities as below:

- **HAZARDOUS WASTES WITH DISPOAL OPTION ##:**

Sl. No.	Characteristics	Stream	Quantity	Mode of Disposal
1.	Spent Carbon	28.2 of Schedule - I	8.89 Kg/day	To be sent to the Cement industries as alternate fuel in the kiln (or) TSDF, Dundigal, Rangareddy District for incineration.
2.	Organic Residues	28.1 of Schedule - I	87.78 Kgs/day	
3.	Forced Evaporation Salts	34.3 of Schedule - I	63.32 Kg/day	To be sent to TSDF, Dundigal, Rangareddy District for land filling after stabilization.
4.	ETP Sludge	34.3 of Schedule - I	10 Kg/Day	

- **HAZARDOUS WASTES WITH RECYCLING OPTION ##:**

Sl. No.	Characteristics	Stream	Quantity	Mode of Disposal
1.	Container & Container Liners of Hazardous Waste & Hazardous Chemicals.	33.3 of Schedule - I	50 Nos/Day	After complete detoxification, it shall be disposed to the outside agencies.
2.	Waste Oil	5.1 of Schedule - I	50 Ltrs/Annum	To be sent to Authorised Reprocessors / Recyclers.

The industry shall obtain amendment of HW authorization for wastes generation quantities as permitted in CFE dt.19.12.2011 after commissioning of ZLD system.

Continued.. P/3

This consent order is valid to manufacture any 4 products out of the following 18 products at any given point of time. The industry shall also restrict the production capacity to 161.67 Kg/day (4.85 TPM) as committed by the industry vide lr.dt.01.10.2013.

Sl. No.	Products	Quantity (Kg/day)	No.of stages to be Manufactured	Starting Raw Material / Intermediate	Quantity of Raw Material / Intermediate (Kg/day)
1	Sparfloxacin	166.66	6	Pentafluorobenzoyl Chloride, C7ClF5O	158.33
2	Mirtazapine	33.33	4	1-Methyl-3-phenyl piperazine, C11H16N2	40
3	Topiramate	166.66	2	D-Fructose, C9H16O6	151.67
4	Olanzapine	166.66	4	Propionaldehyde, C3H6O Malanonitrile, C3H2N2	66.67 66.67
5	Amlodipine Besylate	166.66	4	Phthalic Anhydride, C8H4O3	75
6	Montelukast Sodium	100.00	9	7-Chloro quinaldehyde, C10H8ClN	80
7	Loratadine	33.33	10	Methyl Nicotinate, C7H7NO2	50
8	Valsartan	166.66	3	2-Cyano biphenyel-4-carboxaldehyde, C14H9NO	146.67
9	Clopidogrel Hydrogensulfate	166.66	7	2-Chlorophenyl Glycine, C8H8ClNO2	266.67
10	Gabapentin	166.66	4	1,1-Cyclohexane diacetic acid, C10H16O4	316.67
11	5 - Amino - 1 - Cyclopropyl - 6 , 7, 8 - Trifluoro - 4 - Oxo - 1, 4 - Dihydro - Quinoline - 3 - Carboxylic Acid Ethyl Ester	83.33	4	Pentafluorobenzoyl Chloride, C7ClF5O	87.96
12	2-(4-Methyl - 2 - Phenyl piperazin - 1 - yl) pyridine - 3 - carboxylic acid	83.33	2	1-Methyl-3-phenyl piperazine, C11H16N2	56.82
13	2, 3, 4, 5 - Bis - O - (1-Methyl Ethylidene) - b - Fructopyranose	116.66	1	D-Fructose, C9H16O6	106.17
14	2 - Methyl - 4 - amino - 10H - thieno [2,3-b] [1,5] benzodiazepine Hydrochloride	83.33	3	Propionaldehyde, C3H6O Malanonitrile, C3H2N2	33.33 33.33
15	Ethyl - 4 - [2-(1,3-Dioxo - 1, 3 - dihydro - 2 H - isoindol - 23 - yl) -ethoxy] - 3 - oxobutanoate	83.33	2	Phthalic Anhydride, C8H4O3	50.00
16	(E) - 2 - (3 - {3-[2-(7-Chloro - 2 - quinolinyl) vinyl] phenyl} - 3- oxo propyl) benzoic acid methyl ester	56.66	3	7-Chloro quinaldehyde, C10H8ClN	29.25
17	N - [(2 - Cyano - (1, 1' - biphenyl) - 4 - yl) methyl valine methyl ester	141.66	1	2-Cyano biphenyel-4-carboxaldehyde, C14H9NO	117.61
18	(+) - 2 - (2-Chlorophenyl) - N - (2 -thienyl) ethyl) glycine methyl ester hydrochloride	83.33	5	2-Chlorophenyl Glycine, C8H8ClNO2	123.46
Maximum Production capacity for 4 products		**The industry shall restrict the production capacity to 161.67 Kg/day (4.85 TPM) as committed by the industry vide lr.dt.01.10.2013.**			

Continued - P/4

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This Combined Order of Consent & Hazardous Waste Authorization shall be valid for a period ending with the **31.03.2014.**

Sd/-
MEMBER SECRETARY

To
M/s. Teck Bond Laboratories Pvt., Ltd.,
Sy. No. 173/1,
Anantharam Village,
Jinnaram Mandal,
Medak District.

//T.C.F.B.O //

CHIEF ENVIRONMENTAL ENGINEER (FAC)

SCHEDULE - A

1. The applicant shall make applications through online for renewal of Consent (under Water & Air Acts) and Authorisation under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorisation of the Board.
2. This order is issued in line with Board's CFE order dated **19.12.2011.** The industry shall also comply with the all the conditions mentioned in the CFE order issued vide **Order No. 374/PCB/CFE/RO-II-RCP/HO/2011, Dt.19.12.2011** for the above production activities, which are applicable in operational stage, and this order is subject to the compliance of CFE conditions. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
3. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
4. The facility may explore the possibility of tapping the solar energy for their energy requirements.
5. All other conditions stipulated in the Schedule – A of the earlier combined order of CFO & HWA No. APPCB/ HO/RCP/RCP/72/CFO/2012-476, dated 28.04.2012 remains same. The industry should ensure consistent compliance of the condition of Schedule -A. The industry shall comply with the all the directions issued by the Board from time to time.
6. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

Continued..p/5

Special Conditions **SCHEDULE - B**

1. The industry has to comply with Board directions to implement the Joint Action plan combinedly prepared by the CPCB & APPCB, which was upheld by the Hon'ble Supreme Court order dated. 17.07.2007 in W.P. (C). No. 441/2005 & batch cases.
2. The pre-treated effluents sending to M/s. PETL, Patancheru shall not contain constituents in excess of the tolerance limits mentioned below.

Outlet No.	Parameter	Limiting Standards
2.	pH	5.50 – 9.00
	TDS (Inorganic)	5,000 mg/l
	Chromium Hexavalent (as Cr+6)	2.00 mg/l
	Temperature °C	45.0
	Oil and Grease	20.00 mg/l
	Phenolic Compounds (as C6H5OH)	5.00 mg/l
	Ammonical Nitrogen (as N)	50.00 mg/l
	Cyanide (as CN)	2.00 mg/l
	Chromium (total) (as Cr)	2.00 mg/l
	Copper (as Cu)	3.00 mg/l
	Lead (as Pb)	1.00 mg/l
	Nickel (as Ni)	3.00 mg/l
	Zinc (as Zn)	15.00 mg/l
	Arsenic (as As)	0.20 mg/l
	Mercury (as Hg)	0.01 mg/l
	Cadmium (as Cd)	1.00 mg/l
	Selenium (as Se)	0.05 mg/l
	Fluoride (as F)	15.00 mg/l
	Boron (as B)	2.00 mg/l

3. The industry shall segregate effluent having TDS (inorganic) concentration more than 5,000 mg/lit and disposed by using R.O System & MEE. Only the effluent with TDS (Inorganic) less than 5,000 mg/lit shall be sent to PETL after treatment. The industry shall furnish the revised quantities effluents duly following the segregation criteria mentioned above.
4. The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below:

S.No.	Purpose	Quantity
1.	Process & Washings	3.1 KLD
2.	Boiler, Cooling towers make up	38.0 KLD
3.	DM Plant	0.2 KLD
4.	Domestic	2.0 KLD
5.	Gardening	4.0 KLD
	Total:	**47.3 KLD**

3. The industry shall provide separate water meters with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below.
   a. Industrial cooling, boiler feed.
   b. Domestic purposes.
   c. Processing, whereby water gets polluted and pollutants are easily biodegradable.
   d. Processing, whereby water gets polluted and pollutants are not easily biodegradable.
4. The industry shall file the water Cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water Cess as per the assessment orders as and when issued by Board.

5. The industry shall not manufacture any un-consented products and exceeding capacities without obtaining Consent for Establishment (CFE) and Consent for Operation (CFO).
6. There shall not be any spillages / discharges of chemicals / effluents on ground. The drums containing chemicals & wastes shall be stored in elevated platform provided with leachate / spillages collection pit.
7. The emissions shall not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	Emission Standards
1 & 2	Particulate matter	115 mg/Nm3

8. The industry shall install separate energy meter for pollution control equipment.
9. The industry shall comply with ambient air quality standards of PM_{10}(Particulate Matter size less than 10μm) - 100 μg/ m^3; $PM_{2.5}$(Particulate Matter size less than 2.5 μm) -60 μg/ m^3; SO_2 - 80 μg/ m^3; NO_x - 80 μg/m^3, outside the factory premises at the periphery of the industry.

   Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009

   Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)
   Night time (10 PM to 6 AM) - 70 dB (A).
10. The industry shall install and commission ZLD system consisting of stripper, MEE, RO, ETP & ATFD as per CFE dt. 19.12.2011, by Feb, 2014 as committed vide letter dt. 01.10.2013 in the meeting. **Further the CFO application for renewal will not be considered if ZLD is not completed. The ZLD shall consist of Stripper, MEE, ATFD, Biological ETP and RO plant.**
11. The industry shall install digital flow meters for water consumption and waste water generation within a month.
12. **The industry shall provide continuous online VOC monitoring system and shall be networked to APPCB for website display.**
13. **The industry shall furnish Bank Guarantee of Rs. 50,000/- with validity period of 3 years towards their commitment for development of additional green belt area of 1 Acre at RO, RC Puram within 15 days to meet the norms. The industry shall develop green belt and submit compliance to the RO, RC Puram.**
14. **The industry shall earmark an amount of Rs. 10.3 lakhs per annum for 10 years towards the Enterprise Social Responsibility (ESR) activities and spend the amount in Local area through ESR/CSR Cell in the office of the District Collector.**
15. **The industry shall explore possibility of recovery of salts such as Ammonium Sulphate, Sodium Sulphate etc., from the effluents generated by way of segregation of streams instead of evaporation of combined effluents and sending the salts to the TSDF for landfill.**
16. **The industry shall install and operate multi stage scrubbers for control of NH_3, SO_2, HCl, Bromine and other gaseous emissions. The industry shall meet the emission standards notified by the MoEF. The industry shall maintain online pH monitoring system with auto recording facility to scrubbers to treat the process emissions, as committed. The industry shall standardize quantities of chemical used for scrubbing with respect to time and gaseous emissions.**
17. The **industry** shall install separate energy meters for pollution control equipment to record the energy consumption for operation of pollution control equipment. The industry shall submit the information of energy consumption for Process, for operation of pollution control equipment and for other utilities separately on monthly basis to the concerned Regional office.

Continued ... P/7

18. The industry shall provide & maintain digital flow meters with totalizer to quantify the effluents evaporating in FE / MEE system, condensate from the FE / MEE system and condensate reused, and maintain the records. The First Forerun of condensate from MEE system shall be quantified and shall furnish the details of its characteristics & mode of disposal to the RO, RC Puram.
19. Regular monitoring of vents of the storage tanks and work room concentration shall be carried out using sensors. The industry shall control fugitive emissions by providing chilled brine circulation, closed room operations and condensers with receivers.
20. The industry shall not use odour causing substances or Mercaptans and shall not cause odour nuisance in the surroundings.
21. The industry shall operate Solvent Recovery Plant within plant premises. Solvents shall be recovered to the maximum extent possible and shall be reused. The industry shall submit status of efficiency of Solvent Recovery Plant to the concerned Regional Officer. The industry shall not dispose spent solvents / mixed spent solvents to the traders/ recyclers.
22. The evaporation losses in solvents shall be controlled by taking all preventive measures such as circulation of Chilled brine, transfer of solvents by using pumps instead of manual handling, closed centrifuges, providing primary & secondary condensers to all the reactor vents and all the solvent storage tanks and keeping solvent storage in ground storage tanks with closed pipeline to Reactors.
23. The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection.
    a. Daily production details, RG-I records and Central Excise Returns.
    b. Quantity of Effluents generated, force evaporated, condensate generated & reused.
    c. Log Books for pollution control systems.
    d. Daily solid waste generated and disposed to TSDF.
24. As per G.O.Rt.No.286, the industry shall transport the industrial effluents and plying on the roads is allowed between 6 A.M. to 6 P.M. only.
25. The applicant shall submit Environment statement in Form V to the Regional office before 30th September of every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
26. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991, should be followed.
27. The industry shall comply with Task Force directions issued by Board from time to time.
28. The conditions stipulated in this order are without prejudice to rights and contentions of this Board in any Hon'ble court of Law.

[see rule 5(4)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The industry shall give top priority for waste minimization and cleaner production practices.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management. Handling and Transboundary Movement) Rules, 2008 and amendments thereof. The industry shall maintain 6 copy manifest system for transportation of waste generated and copies of receipt of Consignee shall be submitted to the Concerned Regional office. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.

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3. The industry shall maintain proper records for Hazardous Wastes disposal and its concurrence with authorization. In case of variation in generation, industry shall submit explanation and obtain amendment in Environmental Clearance/ CFE/CFO in this regard.

4. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal. Waste oils shall be disposed to the authorized Reprocessors/ Recyclers and Used Lead Acid Batteries shall be disposed to the manufacturers / dealers on buyback basis. The industry shall take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.

5. The industry shall dispose of e-waste to the authorised recyclers only.

6. The industry shall conform to the co-processing guidelines of CPCB in sending wastes to co-processing for cement plants.

7. The industry shall maintain good house keeping.

8. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule B & C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

Sd/-
MEMBER SECRETARY

To

M/s Teck Bond Laboratories Pvt., Ltd.,
Sy. No. 173/1,
Anantharam Village,
Jinnaram Mandal,
Medak District.

//T.C.F.B.O //

CHIEF ENVIRONMENTAL ENGINEER (FAC)