



# State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 47 IND 2020

Date: 20.04.2022

## CORRIGENDUM

The annexure mentioned in the Environmental Clearance Letter No. SEIAA 47 IND 2020 dated 03.09.2020 issued to M/s Hikal Limited Unit-II located at No: 28, KIADB, Industrial Area, Anekal Taluka, Bangalore - 560105 for Proposed Expansion of Manufacturing of Bulk Drugs & Intermediates project at Plot No.28, KIADB, Jigani Industrial Area, Anekal Taluk, Bangalore, Karnataka shall be modified and read as "Annexure-I", Annexure -II, Annexure -III & Annexure - IV inserted as follows.

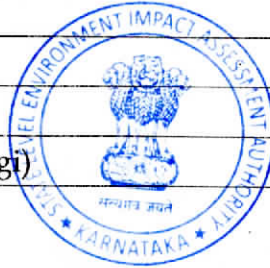
### Annexure-I

List of Products - M/s Hikal Limited Unit-II Manufacturing Division:

S.No	Products	Quantity (MTA)
01	Synthetic API's & Intermediates	74.285

Sl.No.	Product	Proposed MT/Annum
1	Oxpentifylline	5.000
2	PBA HCL	3.800
3	Pregabalin	3.000
4	Quetiapine	5.000
5	Corey lactone	0.300
6	CF3 Ketone	5.000
7	Thiabendazole(TBZ)	2.000
8	AS -16	1.000
9	Nitinpyram	0.000
10	AS -11	1.000
11	STA-31-0228	0.01
12	S199AR (Shionogi)	0.500



Sl.No.	Product	Proposed MT/Annum
13	Venlafalxin Stg-1	1.000
14	Resi03	0.300
15	SCP-01	0.500
16	CFK02	0.500
17	Amaz	5.000
18	TFG01	0.250
19	Vildagliptin	10.000
20	MBOID-2	0.500
21	CF3 Chloretone	10.000
22	5-ABI	1.000
23	EPS-2	0.000
24	Favipiravir	3.000
25	Trityl Olmesartan	0.000
26	Di Boc Amine Int	0.500
27	HCA	0.075
28	MAP-01	0.050
29	MRF-08	0.500
30	ACT-01	0.500
31	T-3917	10.000
32	Fluralanar	1.000
33	Propentofylline	3.000
<b>Total</b>		<b>74.285</b>

### Annexure-II

#### Details of Effluent Characteristics

##### Existing EC details.

S.No	Utility	Water Requirement (KLD)	Effluent Water (KLD)		Total Effluent Generation (KLD)	Parameters (mg/L)		Pollution Load in kgs	
			HTDS	LTDS		TDS	COD	TDS	COD
1	Domestic use	4.95	-	4.45	4.45	1020	450	4.539	2.0025



*[Handwritten signature]*

2	Process & scrubbing	9.75	5.26	4	9.26	90000	100000	833.4	926
3	utilities (boiler & cooling tower)	23	-	10	10	3500	30	35	0.3
	<b>TOTAL</b>	<b>37.7</b>	<b>5.26</b>	<b>18.45</b>	<b>23.71</b>			<b>872.93</b>	<b>928.3</b>

**After proposed amendment.**

S.No	Utility	Water Requirement (KLD)	Effluent Water (KLD)		Total Effluent Generation (KLD)	Parameters (mg/L)		Pollution Load in kgs	
			HTDS	LTDS		TDS	COD	TDS	COD
1	Domestic use	4.95	-	4.45	4.45	1020	450	4.539	2.0025
2	Process & scrubbing	9.75	5.26	4	9.26	80000	75000	833.4	926
3	utilities (boiler & cooling tower)	23	-	10	10	3500	30	35	0.3
	<b>TOTAL</b>	<b>37.7</b>	<b>5.26</b>	<b>18.45</b>	<b>23.71</b>			<b>780.33</b>	<b>696.8</b>

### Annexure-III

#### Details of air pollution control measures

#### Details of Process emissions generation and its management

Stack No.	Stack attached to	Stack Height (m)	Emission	Limit (mg/Nm <sup>3</sup> )	Air pollution Control Measures	Qty	Fuel
01	Attached to Thermic fluid heater 2 Lakh Kcal/hr	25 mtr AGL	SO <sub>2</sub> and NO <sub>x</sub>	600-0-0	Stack Common Chimney	1 Nos	Natural Gas / Diesel
01	Attached to 0.6 TPH Boiler	25 mtr AGL	SO <sub>2</sub> and NO <sub>x</sub>	600-0-0	Stack Common Chimney	1 Nos	Natural Gas / Diesel
02	Attached to Reaction/process area - vents (DLP-1)	6 mtr ARL	SO <sub>2</sub> and NO <sub>x</sub>	35	Scrubber	1 Nos	-
03	Attached to Fume hoods (QC)	3 mtr ARL	Acid mist	35	Scrubber	1 Nos	-



1/-2



Stack No.	Stack attached to	Stack Height (m)	Emission	Limit (mg/Nm3)	Air pollution Control Measures	Qty	Fuel
04	Attached to Reaction/process area - vents (DLP-2)	6 mtr ARL	Acid mist	35	Scrubber	1 Nos	-
03	250 KVA DG set	6 mtr ARL	SO2	--	With Acoustic enclosures & Chimney	1 Nos	Diesel
01	Attached to 0.6 TPH Boiler	25 mtr AGL	SO2 and NOx	600-0-0	Stack Common Chimney	1 Nos	Natural Gas / Diesel
02	Attached to 0.85 TPH Boiler	25 mtr AGL	SO2 and NOx	600-0-0	Stack Common Chimney	1 Nos	Natural Gas / Diesel
03	Attached to 1.0 TPH Boiler	25 mtr AGL	SO2 and NOx	600-0-0	Stack Common Chimney	1 Nos	Natural Gas / Diesel
05	500 kVA DG set	6 mtr ARL	SO2	--	With Acoustic enclosures & Chimney	1 Nos	Diesel

**Details of process emission generation and its management**

S.No	Name of the Gas	Quantity in Kg/day Existing as per the granted EC products	Quantity in Kg/day Proposed amendment	Treatment Method
1	Carbon Dioxide	150	90	Dispersed into the atmosphere



*[Handwritten signature]*

2	Hydrogen	1.0	0.5	Diffused by using through flame arrestor
3	Ammonia	6	5	Scrubbed by using chilled water media
4	Hydrogen chloride	120	373	Scrubbed by using C. S. Lye Solution
5	VOC	1891	1500	Scrubbed by using C. S. Lye Solution (Note: all products)

**Annexure-IV**

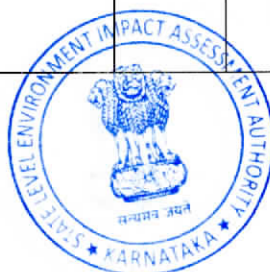
**HAZARDOUS WASTE DETAILS.**

Sl. No.	Waste Cd	Waste Name	Total Quantity	Unit	Disposal Mode
1	28.1	Process Residue and wastes-28.1	115	MT	KSPCB authorized incinerators
2	28.2	Spent catalyst-28.2	1	MT	KSPCB authorized recycler
3	28.3	Spent carbon-28.3	77	MT	KSPCB authorized incinerators
4	28.4	Off specification products-28.4	12	MT	KSPCB authorized incinerators
5	28.5	Date-expired products-28.5	12	MT	KSPCB authorized incinerators
6	28.6	Spent solvents-28.6	1165	MT	KSPCB authorized recycler
7	33.1	Empty barrels/containers /liners contaminated with hazardous	150	MT	KSPCB authorized recycler



*[Handwritten signature]*

Sl. No.	Waste Cd	Waste Name	Total Quantity	Unit	Disposal Mode
		chemicals / wastes-33.1			
8	33.2	Contaminated cotton rags or other cleaning materials-33.2	5	MT	KSPCB authorized incinerators
9	34.1	Chemical-containing residue arising from decontamination.-34.1	5	MT	KSPCB authorized incinerators
10	34.2	Sludge from treatment of waste water arising out of cleaning / disposal of barrels/containers-34.2	10	MT	KSPCB authorized incinerators
11	35.3	Chemical Sludge From Wastewater Treatment-35.3	100	MT	KSPCB authorized TSDF
12	36.1	Any process or distillation residue-36.1	217.7	MT	KSPCB authorized incinerators
13	37.3	Concentration or evaporation residues-37.3	215	MT	KSPCB authorized TSDF
14	5.1	Used Spent Oil-50.1	5	MT	KSPCB authorized recycler
15	B2020	Glass wastes in non-dispersible form:- Cullet and other waste and scrap of glass except for glass	2	MT	KSPCB authorized TSDF



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Sl. No.	Waste Cd	Waste Name	Total Quantity	Unit	Disposal Mode
		from cathode-ray tubes and other activated glasses-B2020			
16	B3050	Untreated cork and wood waste:- Wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or similar forms,- Cork waste: crushed, granulated or ground cork-B3050	30	MT	KSPCB authorized recycler
17	B4010	Wastes consisting mainly of water-based or latex paints, inks and hardened varnishes not containing organic solvents, heavy metals or biocides to an extent to render them hazardous (note the related entry in Part A, A4070)-B4010	1	MT	KSPCB authorized incinerators



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Sl. No.	Waste Cd	Waste Name	Total Quantity	Unit	Disposal Mode
18	DB30 20	Paper, paperboard and paper product wastes * * The following materials, provided they are not mixed with hazardous wastes: Waste and scrap of paper or paperboard of: - unbleached paper or paperboard or of corrugated paper or paperboard,- other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass,- paper or paperboard made mainly of mechanical pulp (for example newspapers, journals and similar printed matter),- other, including but not limited to(1) laminated paperboard (2) unsorted scrap	10	MT	KSPCB authorized recycler
19	B1110	B1110 E Wastes	5	MT	KSPCB authorized recycler



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Sl. No.	Waste Cd	Waste Name	Total Quantity	Unit	Disposal Mode
20	36.2	36.2 Spent carbon or filter medium	3	MT	KSPCB authorized incinerators
21	35.2	35.2 Spent ion exchange resin containing toxic metals	1	MT	Disposed to KSPCB authorized incinerators
22	35.4	35.4 Oil and grease skimming	2	MT	KSPCB authorized TSDF
23	B3030	B3030 Waste of wool or of fine or coarse animal hair, including yarn waste Cotton waste (including yarn waste and garnetted stock)	5	MT	KSPCB authorized incinerators
24	B3040	B3040 Rubber Wastes The following materials, provided they are not mixed with other wastes: - Waste and scrap of hard rubber (e.g., ebonite) - Other rubber wastes (excluding such wastes specified elsewhere)	10	MT	KSPCB authorized recycler

**NON-HAZARDOUS WASTE DETAILS.**

Sl No	Type of Waste	Total Quantity	Method of handling/disposal
1	General office waste	1.0 TPM	



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2	Non-contaminated carboys & glasses	4.0 TPM	Shall be stored in accordance to KSPCB Guidelines and disposed to authorized scrap dealers
3	Wood packings	1.0 TPM	
4	Non-contaminated plastic waste	1.2 TPM	
5	Aprons -Cloth waste	0.2 TPM	
6	Glass wears	0.3 TPM	

Rest of the contents and the conditions of the Environmental Clearance letter No. SEIAA 47 IND 2020 dated 03.09.2020 remains unchanged



(Vijay Mohan Raj V)  
Member Secretary,  
SEIAA, Karnataka.

**Copy to:**

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi- 110 003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore - 560 034.
- 4) Guard File.