सत्यमेव जयते

State Level Environment Impact Assessment Authority-Karnataka

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

No. SEIAA 48 IND 2020 Date: 20.04.2022

CORRIGENDUM

The annexure mentioned in the Environmental Clearance Letter No. SEIAA 48 IND 2020 dated 04.09.2020 issued to M/s Hikal Limited Unit-I located at Plot No, 82/A, 83-P, 83-P1 & 72 , KIADB Industrial Area, Jigani, Anekal Taluk, Bangalore Urban for Proposed Expansion of Active Pharmaceutical Ingredients (API's) and Intermediates product manufacturing unit project at Plot No.82/A, 83-P, 83-P1 & 72 KIADB, Industrial Area, Jigani , Anekal Taluk, Bangalore Urban District, 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-I Manufacturing Division:

S.No	Products	Quantity (MTA)
01	API's & Intermediates	4887.8

List of Products and their capacity.

S.No	Name of products	Final Products (MTA)
1.	GABAPENTIN	2284.4
2.	BURPROPION HCL	350
3.	CINNARIZINE	20
4.	ONDANSETRON HCL	2
5.	ACEBUTALOL - HCL	2
6.	P- BENZOXY ANILINE HCL	5
7.	ONDANSETRON API	2
8.	OXYPENTIFYLLINE	40
9.	TRIPOLIDINE - HCL	4
10.	GEMFIBROZIL	150
11.	DECOQUINATE	250
12.	LEVETIRACETAM	10
13.	T-LUCINE	5.0

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14.	FLUNARAZINE	12
15.	VENLAFLAXINE HCl	150
16.	NEOTAME	50
17	PIRACETAM	250
18	ETIRACETAM FRESH	200
19.	ETIRACETAM RACEMIC	100
20.	TPCA.HCL	5
21.	CMMDT	5
22.	TRI-FLUROMETHYL CINNAMIC ACID	5
23.	MEMANTINE HCl	5
24.	PIPERAZINENITRO HCl	10
25.	SEVELAMER CARBONATE	10
26.	COLESEVALAM HYDROCHLORIDE	10
27.	PREGABLIN	255
28.	SITAGLIPTIN	80
29.	VILDAGLIPTIN	60
30.	LACOSAMIDE	30
31.	VALOCYCLOVIR HYDROCHLORIDE	100
32.	OLMESARTAN	50
33.	DONEPEZIL HYDROCHLORIDE DIHYDRATE	2
34.	QUETIAPINE FUMURATE	100
35.	PRASUGREL (TPPO)	2
36.	BUTRAPHANOL	0.3
37.	METHIMAZOLE	2
38.	FAVIPIRAVIR	30
39.	APIXABAN	20
40.	HBP- 918	50
41.	UROLITHIN	50
42.	DAPAGLIFLOZIN	20
43.	EMPAGLIFLOZIN	20
44.	NIRMALTREVIR (HBP: 939)	60
45.	CINNAMYL CHLORIDE	20
	Total Production Capacity	**4887.8**

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Annexure-II

Details of Effluent Characteristics

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	45	-	40	40	1020	400	40.8	18
2.	Manufacturing process	179.35	100.7	131	231.7	65000	90000	7200	9718
3.	Washing –non process	89	10	79	89	4500	4000	400.5	356
4.	Other utilities	849	-	137	137	3000	500	411	68.5
	TOTAL	**1162.3**	**110.7**	**387**	**497.7**			**8052**	**10160**

Annexure-III

Details of air pollution control measures

Details of Process emissions generation and its management

Sl. No	Chimney attached to	Constituents to be controlled in the emission	Tolerance limits mg/Nms as per CFO	Air pollution Control equipment to be installed, in addition to chimney height
Air pollution Sources and control equipment's				
Additionally proposed utilities				
01	25 TPH boiler fired by briquette	SPM	-	40 m AGL
02	DG sets capacity of 2500 KVA x 2 Nos	Nox, CO, NMHC, PM	710 ppmv, 150, 100, 75	30 m AGL
Existing utilities				
03	2.8 TPH Boiler & 2 Lakh K. Cal Thermic Fluid Heater (Common Chimney)	SO2 and NOx	600 & 300 (at 3% dry O2)	Common chimney of 30.5 m AGL

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04	6.3 TPH Boiler & 2 Lakh K. Cal Thermic Fluid Heater(Comon Chimney)	SO2 and NOx	600 & 300 (at 3% dry O2)	Common chimney of 38 m AGL
05	6.3 TPH Boiler	SO2 and NOx	600 & 300 (at 3% dry O2)	38 m AGL
06	Process emissions from all the reactors-7 Nos.	Acid Mist & SO2	35 -	Individual chimneys of 38 m AGL
07	DG Set – 750 KVA.	SO2	-	C16 m AC with Acoustic Enclosures
08	DG Set – 1500KVA.	Nox, CO, NMHC, PM	710 ppmv150100 75	30 m AGL with Acoustic Enclosures
09	DG Set-275 KVA.	SO2	-	6 m ARL with Acoustic Enclosures
10	Boiler-14 MT/Hr (Briquette fired)	SPM	100	35 in AGL with ESP
11	Process emissions from all the reactors-8 Nos.	Acid Mist , SO2	35 -	Individual chimneys of 5 m ARL connected with Scrubbers
12	DG Set – 2000KVA	Nox, CO, NMHC, PM	710 ppmv, 150, 100 75	30 m AGL with Acoustic Enclosures
13	DG Set – 2000KVA	Nox, CO, NMHC, PM	710 ppmv 150 100 75	30 m AGL with Acoustic Enclosures

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	205	190	Dispersed into the atmosphere

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2	Hydrogen	2.0	2.0	Diffused by using through flame arrestor
3	Ammonia	25	25	Scrubbed by using chilled water media
4	Hydrogen chloride	80	80	Scrubbed by using C. S. Lye Solution
5	Acid mist	5	4.5	Scrubbed by using C. S. Lye Solution
6	VOC	1800	1600	Scrubbed by using C. S. Lye Solution (Note: all products)

Annexure-IV

HAZARDOUS WASTE DETAILS.

Sl. No.	Type	Category	Total quantity	Disposal Method
1	Used oil	5.1	7 KLA	Shall be collected in a leak proof containers & disposed only to KSPCB registered authorized re-processors provided the oil meets the standards as per schedule-5 part A of the rules
2	Oil soaked cotton waste Oil filters	5.2	4.0 MTA 100 Nos/A	Shall be store in a secured manner & handed over to KSPCB authorized incinerators / co-processing in cement kiln
3	Spent carbon, hyflo mixtures, & carbon soot	28.2	218.5 MTA	shall be store in a secured manner & handed over to KSPCB authorized incinerators / co-processing in cement kiln
4	Spent solvent & Mixed solvents from process	28.6	7869 MTA	Shall be store in a secured manner and reprocessed back using environmental sound technology / KSPCB authorized recyclers / End users.
4a	Process residue	28.1	1920 MTA	Shall be store in a secured manner & handed over to KSPCB authorized incinerators / co-processing in cement kiln

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Sl. No.	Type	Category	Total quantity	Disposal Method
5	Discarded containers	33.3	120 MTA	Shall be store in a secured manner and handed over to KSPCB authorized recyclers after wash only
6	ETP sludge, Multiple effect evaporator salt	34.3	600 MTA 5144 MTA	Shall be store in a secured manner and handed over to TSDF/ co-processing in cement kiln
7	Distillation residue from contaminated organic solvents	36.4	733 MTA	Shall be store in a secured manner & handed over to KSPCB authorized incinerators / co-processing in cement kiln
8	RO resins (membrane) and chemical resins (MB plant)	-	1.5 MTA	Shall be store in a secured manner & handed over to KSPCB authorized incinerators / Co-processing in cement kiln
9	Expired and Off specific drugs / Chemicals	-	40 MTA	Shall be store in a secured manner & handed over to KSPCB authorized incinerators / Co-processing in cement kiln

NON-HAZARDOUS WASTE DETAILS.

Sl. No	Type of waste	Total Quantity	Method of handling/disposal
1	General office waste	18 MTA	Shall be stored in accordance to KSPCB Guidelines and disposed to authorized scrap dealers.
2	Non-contaminated carboys & glasses	14000 No/A 2.5 MTA	
3	Wood Packings	70 MTA	
4	Sludge from STP	15 MTA	
5	Non contaminated plastic waste	50 MTA	
6	Aprons –Cloth waste	12 MTA	
7	Glasswares	2.5 MTA	

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8	Briquette Boiler Ash	4500 MTA	Shall be stored in accordance to KSPCB guidelines and disposed to Bricks & Compost manufacturers.

Rest of the contents and the conditions of the Environmental Clearance letter No. SEIAA 48 IND 2020 dated 04.09.2020 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, 17th Main Road, Koramangala II Block, Bangalore – 560 034.
4) Guard File.