MINUTES OF THE 98th MEETING OF STATE EXPERT APPRAISAL COMMITTEE, (SEAC), TELANGANA STATE HELD ON 22.01.2021, 2.00 P.M.

MINUTES OF THE 98th MEETING OF STATE EXPERT APPRISAL COMMITTEE (SEAC) HELD ON 22.01.2021 AT TSPCB, PARYAVARAN BHAVAN, A-3, I.E., SANATHNAGAR, HYDERABAD.

The following members were present:

S. No.	Name of the Expert	Position
1.	Prof.Ch.Krishna Reddy, H.No: 2-2-20/L/7, #401. Golden towers – II, Raja Rajeshwari BI.PG, D.D. Colony, Hyderabad. Ph: 9866629265	Chairman.
2.	Dr.(Ms)Thatiparthi Vijayalakshmi Plot No.110, Siddartha Nagar, S.R. Nagar Post, Hyderabad-500038. Ph: 9440896661	Member
3.	Dr.K.Shivakumar, Plot No. 328, Flat No: 302, Mehar Niwas, KPHB 6th phase, Kukatpally, Hyderabad-500072 Ph: 9951701067	Member
4.	Dr.Vemula Vinod Goud, H.No. 6-156, Sridurga Estates, Deepthisri Nagar, Madinaguda, Hyderabad-500049. Ph:9440386945	Member
5.	Prof.C.Venkateshwar, Department of Botany, University College of Science, OU. Hyd, Flat No. 117, 'C' Block, Janapria castle, Ramnagar, Vidyanagar Hyderabad Ph:9440487742 & 8096754604	Member
6.	Shri Ravindra Samaya Mantri H.No: 3-5-44/1, Flat No. 301, Arcadia Apartments, Edengaden Road, Hyderabad- 500001. Ph:9491145160	Member
7.	Prof.B.Reddya Naik, Department of Zoology, University College of Science, Osmania University, Hyderabad-500007. Ph: 9290491044	Member
8.	Dr.P.Radha Krishna, H.No. 9/40, Bahar 'B', Sahara States, Mansoorabad, LB Nagar, Hyderabad-500068 Ph:9848555242	Member

After general introductory remarks by the Chairman, SEAC, the Committee took up items agenda-wise. The decisions of the SEAC on each case are recorded below.

DECLARATION

It is hereby declared that the Chairman and members of SEAC, T.S., do not have conflict of interest with any project proponent pertaining to the items discussed in the SEAC meeting held on 22.01.2021.

S. No.	Name of the Expert	Signature
1.	Prof.Ch.Krishna Reddy	Sd/-
2.	Dr.(Ms)Thatiparthi Vijayalakshmi	Sd/-
3.	Dr.K.Shivakumar,	Sd/-
4.	Dr.Vemula Vinod Goud	Sd/-
5.	Prof.C.Venkateshwar	Sd/-
6.	Shri Ravindra Samaya Mantri	Sd/-
7.	Prof.B.Reddya Naik	Sd/-
8.	Shri Suresh	Sd/-

Agenda Item No. 01	M/s. Chemic laboratories Pvt. Ltd. Sy.No. 266, 267 & 268, Aipoor (V), Chityal (M), Nalgonda District - Environmental Clearance - Reg.
Proposal No.	SIA/TG/IND2/175792/2020 (EC)

The representative of the project proponent Sri K. Navateja Reddy; and Sri G.V. Reddy of M/s Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 15.55 acres, out of which Green area is 5.15 acres (33.1%).

Nearest human habitation is Epuru village is at 2.75 km; Nearest water bodies are Jalu Vagu is at 0.320 km and tank near Epuru village is at 2.4 km from the proposed site.

Project Cost is Rs. 35.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 8.85 crores and Recurring Cost is Rs. 9.97 crores. Budget for CER is Rs. 82.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity:

S.No	Name of Product	Capacity (Kg/Day)	TPM
1	Amlodipine Besylate	480	14.4
2	Clopidogrel Bisulfate	200	6
3	Lansoprazole	300	9
4	Rabeprazole Sodium	500	15
5	Valsartan	400	12
6	Dexlansoprazole	300	9
7	Esomeprazole	880	26.4
8	Dabigartanetexilate mesylate	200	6
9	Itraconazole	200	6
10	Fluconazole	300	9
11	Omeprazole	200	6
12	Domperidone	120	3.6
13	Tamsulosin	50	1.5
14	Montelukast Sodium	100	3
15	Pantaprazole Sodium	120	3.6
16	4-Nitro 2,3-dimethyl pyridine N-oxide	320	9.6
17	2-Hydroxymethyl-3-methyl-4-[2, 2, 2-trifluoro ethoxy] pyridine HCl	910	27.3
18	2-Chloromethyl-3-methyl-4-[2,2,2-tri fluoro ethoxy] pyridine HCl	850	25.5
19	2- [[[3-Methyl-4-(2,2,2trifluro-ethoxy) -2-pyridinyl] methyl]thio]-1Hbenzimidazole	300	9
20	4-Chloro-2, 3-dimethylpyridine-N-oxide	300	9
21	2-Hydroxymethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl	300	9
22	2-Chloromethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl	800	24
23	2[[(4-(3-Methoxypropxy)-3-Methylpyridine-3-yl) methyl] thio]-1H-Benzimidazole (Rabe Sulphide)	700	21
24	4-Nitro-2, 3, 5-trimethylpyridine-N-oxide	480	14.4
25	2-Hydroxymethyl-3,5-dimethyl-4-methoxy pyridine hydrochloride	450	13.5
26	2-Chloromethyl-4-methoxy-3, 5-dimethyl pyridine hydrochloride	300	9
27	5-Methoxy-2-[[4methoxy-3, 5-dimethylpyridin-2-yl) methyl] thio] -1H-benzimidazole	400	12

CHAIRMAN, SEAC

28	4-[4-[4-(4-methoxyphenyl)-1-piperazinyl] phenyl]-2,4 dihydro - 3H-1, 2, 4-triazol-3-one	500	15
29	2, 4-Dihydro-4-4-[4-(4-Hydroxy phenyl)-1-piperazinyl] phenyl]-2-(1-methylpropyl)-3H-1, 2, 4-triazol-3-one	200	6
30	Cis-2-(2, 4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1, 3-dioxolan-4-ylmethyl methane sulphonate	400	12
31	Cis-[2-Bromomethyl-2-(2,4-dichlorophenyl)-1,3-dioxolan-4-yl]methyl Benzoate	800	24
32	5-Cyano Phthalide	336	10.1
33	Methyl cyanoacetate	1000	30
34	1,1-Cyclo hexane di acetic acid	160	4.8
35	1,1-Cyclo hexane (monomide)	2000	60
36	OTBN	475	14.3
37	Glycine	350	10.5
38	Cytosine	255	7.7
39	5-Fluoro cytosine	650	19.5
40	Alpha-Naphthol	620	18.6
41	N-(2-amino-4,6 dichloropyrimidin-5-yl) formamide	120	3.6
42	Adenine	139.5	4.2
43	Valeronitrile	700	21
44	R(-)-3-Amino butanol	65	2
45	R&D and Validation Products	5	0.2
	Total - Worst Case 12 Products on campaign basis	**10410**	**312.3**

By Products

S.No	Name of the Product	By Products	Stage	Quantity (Kg/day)
1	Lansoprazole	Ammonium sulfate	II	581.9
2	Valsartan	Tri Ethyl Amine HCl	II	163.4
3	Rabeprazole	Ammonium sulfate	V	313
4	Esomeprazole Magnesium Dihydrate	Ammonium sulfate	II	2135
5	Cytosine	Ethanol	I	130
6	Alpha-Naphthol	Acetic acid	I	330
7	N-(2-amino-4,6 dichloro pyrimidin-5-yl) formamide	Phosphoric acid	I	150
8	Adenine	Aniline	III	106.2
9	R(-)-3-Amino butanol	Acetic acid	II	255
		R-Pheuyl amine	III	110

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 5 TPH 1 x 8 TPH	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1 x 500 kVA	 10 m each	Acoustic enclosure
3	**Thermic Fluid Heater** Proposed: 1 x 2 Lakh K.cal/hr	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen bromide, hydrogen chloride, sulfur dioxide, carbon dioxide and nitrogen. Ammonia, hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

CHAIRMAN, SEAC

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	111		111
2	Washings	8		8
3	Scrubber	10		10
4	Boiler Feed	45	35	80
5	Cooling Tower	95	175	270
6	RO/DM Plant	15		15
7	Domestic	9		9
8	Gardening	8		8
	Total	**301**	**210**	**511**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	120.4		120.4	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	8		8	
3	Scrubber Effluent	10		10	
4	RO/DM rejects	15		15	
5	Boiler Blow downs		8	8	
6	Cooling Tower Blow downs		50	50	
7	Domestic		8	8	
	Total effluent Quantity	**153.4**	**66**	**219.4**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	6.28 TPD	Sent to cement plants for co-incineration / TSDF Dundigal.
2	Solvent residue	5.56 TPD	
3	Spent Carbon	242.8 Kg/day	
4	Hyflow	43.9 Kg/day	Sent to TSDF
5	Evaporation Salts	8.68 TPD	
6	Inorganic Residue	2.7 TPD	
7	ETP Sludge	2.17 TPD	
8	Boiler Ash	4.77 TPD	Sent to brick manufacturers
9	Spent Solvents	148 KLD	Sent to cement plants for co-incineration.
10	Spent Mixed solvents	37 KLD	Disposed to authorized cement plants for co-incineration / shall be used as raw material for end users
11	Stripper Distillate	3.16 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	2.49 KLPA	Sent to authorized agencies
13	Used Lead acid Batteries	24 Nos/Year	Sent to suppliers on buy back basis
14	Bio medical waste	5 Kg/ Month	Sent to authorized common biomedical treatment facility
15	Detoxified containers & bags	650 Nos / Month	Sent to authorized recyclers
16	Used PPE	15 Kgs/ Month	Sent to authorized vendor
17	E- Waste	0.2 TPA	Authorized recyclers
18	Plastic Waste	0.1 TPA	Authorized recyclers
19	Metal Scrap	8 TPA	Sale to out side agencies/ recyclers
20	Used Filters (HEPA filters, Oil Filters etc)	80 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC

Agenda Item No. 02	**M/s. Aktinos Pharma Pvt. Ltd. Plot No. 154/A/6, Sy. No. 172 A, S.V. Co-Operative Industrial Estate, IDA, Bollaram Village, Jinnaram Mandal, Sangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/175709/2020 (EC/ Expansion)**

The representative of the project proponent Sri Marella Venugopal Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

CFE issued on. 23.12.2004 for manufacturing of API intermediate which does not attract EC under EIA notification 1994.

CFO issued on 16.08.2018 with validity upto 31.07.2023 and the unit operating.

Self-compliance Report Submitted.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 2.2 acres, out of which Green area is 0.88 acres (40%).

Nearest human habitation is Bollaram village @ 1.94 km; Nearest water body is Ammenpur Cheruvu@ 1.19 km; Nearest RF is Kazipalli @ 3.1km from the industry.

Project Cost is Rs. 15 Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.10 crores and Recurring Cost is Rs. 2.90 crores. Budget for CER is Rs.30 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity-After Expansion

S. No	Name of Product	Capacity (Kg/day)
1	3-(dimethyl amino)-2-methyl-2-propenal	66.7
2	4,7-Dichloroquinoline	233.3
3	4-Benzyloxy-3-Nitrophenacyl Bromide	66.7
4	(4R-Cis)-1,1-dimethylethyl-6-(2-aminoethyl)-2,2-dimethyl-1,3-dioxane-4-acetate (Amino Ketal)	333.33
5	Atorvastatin calcium	33.33
6	Bexarotene	66.67
7	Carfilzomib	33.33
8	Benzyl n-[(2r)-1-benzyl-3-chloro-2-hydroxy propyl] carbamate	100
9	N-benzyloxy carbonyl-l-valine	1666.67
10	Cevimeline hydrochloride	200
11	Clofarabine	33.33
12	Benzyl n-[(2r)-1-benzyl-3-chloro-2-hydroxy propyl] carbamate	166.67
13	Favipiravir	166.67
14	Felbamate	500
15	Hydroxy chloroquine sulfate	100
16	Hydroxy novaldiamine	233.33
17	Itraconazole	133.33
18	Lopinavir	50
19	Netupitant	33.33
20	Olmesartan medoxomil	83.33
21	Oseltamivir phosphate	83.33
22	Pentostatin	16.67
23	N-[(S)-2,3,4,5,6-pentafluorophenoxy) phenoxy phosphenyl]-L-alanine-1-methyl ethyl ester	166.67

CHAIRMAN, SEAC

24	Ponatinib hydrochloride	66.67
25	Primaquine diphosphate	33.33
26	Potassium 5-methyl-1,3,4-oxadiazole-2-carboxylate	100
27	Raltegravir Potassium	100
28	Remdesivir	50
29	Ribavirin	166.67
30	Riluzole	116.67
31	Ritonavir	116.67
32	Saxagliptin Monohydrate	33.33
33	Tenofovir disoproxil fumarate	116.67
34	Tetrabenazine	116.67
35	Ticagrelor	50
36	Ursodeoxycholic acid (Ursodiol)	50
37	Verapamil Hydrochloride	116.67
	Total - Worst Case 6 Products	**3166.7**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 0.5 TPH Proposed: 1 x 1 TPH 1 x 3 TPH	 5 m 6 m 30 m	 Bag filter Bagfilter Bag filter
2	**DG Sets:** Existing: 1 x 250kVA Proposed: 1 x 500 kVA	 3.2 m 10 m	 Effective stack height
3	**Thermic fluid heater:** Proposed: 2 Lakh K.cal/hr.	15 m	Effective stack height

Process emissions contain hydrogen, ammonia, hydrogen bromide, hydrogen chloride,sulfur dioxide, carbon dioxide, oxygen and nitrogen. Ammonia, Hydrogen chloride. Hydrogen bromide and sulfur dioxide are sent to scrubber in series. Sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium chloride from hydrogen chloride, sodium bisulfate from sulfur dioxidescrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	26.3		26.3
2	Washings	3		3
3	Scrubber	3		3
4	Boiler Feed	25		25
5	Cooling Tower	30	55	85
6	RO/DM Rejects	5		5
7	Domestic	4		4
8	Gardening	3		3
	Total water requirement	**99.3**	**55**	**154.3**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	28.3		28.3	Zero Liquid Discharge System ie., HTDS: Stripper, MEE & ATFD. LTDS: Biological ETP & RO.
2	Washings	3		3	
3	Scrubber	3		3	
4	Boiler Blow downs		3	3	
5	CT Blow downs		15	15	
6	RO/DM Rejects	5		5	

CHAIRMAN, SEAC

7	Domestic		3.5	3.5	Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
Total effluent Quantity		**39.3**	**21.5**	**60.8**	

Details of Solid Waste After Expansion:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	2.63 TPD	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	1.63 TPD	
3	Spent Carbon	1337.2 Kg/day	
4	Inorganic Residue	3.08 TPD	Sent to TSDF
5	Evaporation Salts	1.50 TPD	Sent to TSDF
6	ETP Sludge	0.44 TPD	Sent to TSDF
7	Boiler Ash	6.2 TPD	Sent to brick manufacturers
8	a) Detoxified Container / Liners drums b) HDPE Carboys/ Drums	1200 No. s/ month	Disposed to TSPCB Authorized agencies after complete detoxification
9	PP Bags	80 Kg/month	Sent to authorized agencies after detoxification
10	Spent Solvents	53.7 KLD	Sent to cement plants for co-incineration.
11	Spent Mixed solvents	5.9 KLD	Disposed to end users
12	Stripper Distillate	632 Kg/day	Sent to cement plants for co-incineration/ TSDF
13	Waste oils & Grease	1.24 Kl/year	Sent to authorized agencies
14	Used Lead acid Batteries	12 Nos/year	Sent to suppliers on buy back basis
15	E waste	1 TPA	Sent to authorized agencies
16	Paper waste, & Misc.	0.5 TPM	Sent to scrap vendors
17	Contaminated cotton waste	0.01 TPM	Sent to authorized agencies
18	Contaminated filter cloth	0.01 TPM	
19	Spent resins	0.005 TPM	

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 03	**M/s. SMS Lifesciences India Limited – Unit V, Sy. No. 296/7/4, IDA Bollaram, Jinnaram Mandal, Sangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176351/2020 (EC)**

The representative of the project proponent Sri A. Srinivas Rao; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

EC obtained on dt.11.08.2005 from the MoEF&CC, GoI for the existing unit in the name of Plant Organics Ltd.

Submit copy of certified compliance report issued by the Regional Office of the MoEF&CC, GoI, Chennai, as per O.M. dt.30.05.2012 & 07.09.2017 of MoEF&CC, GoI.

CFO issued on 10.03.2008 and the unit is sick and not operating.

Self-compliance Report Submitted.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

CHAIRMAN, SEAC

Total area is 3 acres, out of which Green area is 1.2 acres (33%).

Nearest human habitation is Bellaram Village@ 0.7 km; Nearest water body is Danara Cheruvu@ 1.28 km; Nearest RF is Kazipulli @ 3.4 km from the industry.

Project Cost for expansion is Rs. 4 Crores. Budget for Environmental protection towards Capital Cost is Rs. 1.2 crores and Recurring Cost is Rs.1.05 crores. Budget for CER is Rs.12.5 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity-After Expansion

S. No	Name of Product	Capacity	
		Kg/Day	TPM
1	1, 3 Dichloro Acetone	150	4.5
2	Sildenafil Intermediates - SLC BASE	300	9
3	Guanyl Thiourea Intermediate	150	4.5
4	4-(propylthio) benzene -1,2-diamine	150	4.5
5	Benzimidazole Intermediate	30	0.9
6	Itraconazole Intermediate IT VIII	150	4.5
7	Ketaconazole Intermediate	100	3
8	Domperidone	150	4.5
9	Losartan Potassium	350	10.5
10	Acyclovir Intermediate	100	3
11	Valsartan	150	4.5
12	Lopinavir	150	4.5
13	R&D Products	10	0.3
	Total - Worst Case 4 Products	**950**	**28.5**

By Products-After Expansion

S. No	Name of By-Product	Name of the Product	Quantity	
			Kg/day	TPD
1	Chromium sulphate	1,3Dichloro acetone	463.5	0.46
2	Sodium sulphate	1,3Dichloro acetone	167.8	0.17
3	Iron Sludge	Sildenafil Intermediates - SLC BASE	2499.3	2.5
4	Chlorosulphonic Acid Solution	Sildenafil Intermediates - SLC BASE	11255.3	11.255
5	Sodium Bromide	4-(propylthio) benzene -1,2-diamine	84.9	0.09

Details of Utilities, Stacks & Air pollution control equipment's:

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 2 TPH (Dismantled After Expansion) Proposed: 1 x 4 TPH 1 x 3 TPH (standby)	 30 m 30 m 30 m	 Bag filter Bag filter Bag filter
2	**DG Sets:** Existing:1 x 125 kVA and 1 x 250 kVA Proposed: 1x380 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heater** Proposed: 1 x 2 Lakh K.cal/hr	15 m	Bag filter

Process emissions contain hydrogen, hydrogen chloride, sulfur dioxide, ammonia, hydrogen bromide, carbon dioxide and oxygen. Ammonia, hydrogen chloride andHydrogen bromide are sent to scrubber in series. Ammonium chloride from ammonia, sodium chloride from hydrogen chloride, sodium bisulfate from sulphur dioxide and Sodium bromide from hydrogen bromide scrubbing sent to ETP. Carbon dioxide and oxygen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

CHAIRMAN, SEAC

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	11.2		11.2
2	Washings	1		1
3	Scrubber	1		1
4	Boiler Feed	20	2	22
5	Cooling Tower	25	16	41
6	RO/DM Rejects	1.5		1.5
7	Domestic	2		2
8	Gardening	2		2
	Total water requirement	**64**	**18**	**82**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	9.75		9.75	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	1		1	
3	Scrubber	1		1	
4	Boiler Blow downs		2	2	
5	CT Blow downs		3	3	
6	RO/DM Rejects	1.5		1.5	
7	Domestic		1.8	1.8	
Total effluent Quantity		**12.5**	**6.8**	**19.3**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	741 Kg/day	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	613.6 Kg/day	
3	Spent Carbon	47.8 Kg/day	
4	Inorganic Residue	68.1 Kg/day	Sent to TSDF
5	Evaporation Salts	1.7 TPD	
6	ETP Sludge	0.46 TPD	
7	Catalyst	99.8 Kg/day	
8	Hyflow	21.8 Kg/day	
9	Boiler Ash	1.56 TPD	Sent to brick manufacturers
10	a) Detoxified Container / Liners drums b) HDPE Carboys/ Drums	300 No. s/ month	Disposed to TSPCB Authorized agencies after complete detoxification
11	PP Bags	10 Kg/month	Sent to authorized agencies after detoxification
12	Spent Solvents	21.02 KLD	Sent to cement plants for co-incineration.
13	Spent Mixed solvents	2.3 KLD	Disposed to end users
14	Stripper Distillate	0.36 KLD	Sent to cement plants for co-incineration/TSDF
15	Waste oils & Grease	70 lts/month	Sent to authorized agencies
16	Used Lead acid Batteries	8 No.s/year	Sent to suppliers on buy back basis
17	Insulation Materials	1.5 TPM	Sent to TSDF
18	Biomedical Waste	5 Kg/month	Sent to authorized CBMWTF

After detail discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC

Agenda Item No. 04	M/s. Sreevanth Industries Sy. No.s 186 (Part), Chilkamarry Village, Farooqnagar mandal, Rangareddy District - Environmental Clearance - Reg.
Proposal No.	SIA/TG/IND2/176389/2020 (EC)

The representative of the project proponent Sri P. Vishnuvardhan Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 3.45 acres, out of which Green area is 1.14 acres (33%).

Nearest human habitation is Chilkamarry Village @ 0.7 km; Nearest water body is Water tank near Raikal village@1.58km; Nearest RF is Mysura Kammadhanam @ 3.8 km from the industry.

Project Cost is Rs. 8 Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.01 crores and Recurring Cost is Rs. 1.83 crores. Budget for CER is Rs.20 lakhs in First 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of the Product	Capacity (Kg/day)
1	Atorvastatin Calcium	11.1
2	Bupropion	5.6
3	Diphenhydramine HCl	55.6
4	Duloxetine HCl	5.6
5	Glebenclamide	11.1
6	Glimipiride	5.6
7	Glipizide	5.6
8	Metformin Hcl	55.6
9	N-benzylethanolamine	444.4
10	Pyrrolidinyl Phenylpropanolamine	166.7
11	Rivastigmine	5.6
12	Rosuvastatin Calcium	27.8
13	Zolmitriptan	5.6
14	(-) Dibenzoyltartaric acid	5.6
15	(−) Dibenzoyltartaric acid	5.6
16	(-) Ditouloyl tartaric acid	5.6
17	(+) Ditouloyl tartaric acid	5.6
18	4-Hydroxy Coumarin	27.8
19	2-(Chloro methyl)-3-methyl-4-(2,2,2-trifluoroethoxy) pyridine HCl	800
20	Cis-[[2-(2,4-Dichloro phenyl)-2-(1H-1,2,4-triazol-1-yl-methyl)-1,3-dioxolan-4-yl] methyl] methane sulfonate	1000
21	1-(2,3-Dichlorophenyl) piperazine HCl	200
22	2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl] thio}-5-methoxy-1H-benzimidazole	200
	Total (Worst 8 Products)	**2922.2**
23	R&D products	5
	Total	**2927.2**

CHAIRMAN, SEAC

By Products

S. No	Name of Product	Stage	Name of By Product	Quantity (Kg/Day)
1	(+) Dibenzoy. tartaric acid	I	Benzoic Acid	1.8
2	2-(Chloro methyl)-3-methyl-4-(2,2,2-trifluoroethoxy) pyridine HCl	I	Sodium Acetate	255.6
			Spent Acetic Acid	240.0
3	Cis-[[2-(2,4-Dichloro phenyl)-2-(1H-1,2,4-triazol-1-yl-methyl)-1,3-dioxolan-4-yl] methyl] methane sulfonate	I	Triethylamine HCl	337.0
4	2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl] thio}-5-methoxy-1H-benzimidazole	I	Ammonium persulphate dimethyl sulphate salt	227.7

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed 1 x 6 TPH & 1 x 4 TPH	30 m 30 m	Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 125 kVA 1 x 250 kVA	Adequate height	Acoustic enclosure

Process emissions contain hydrogen, hydrogen chloride, hydrogen bromide, sulfur dioxide, carbon dioxide, and oxygen. Hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide and oxygen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	31.8		31.8
2	Washings	4		4
3	Scrubber	2		2
4	Boiler Feed	40		40
5	Cooling Tower	10	62	72
6	RO/DM Plant	8		8
7	Domestic	4		4
8	Gardening	2		2
	Total	**101.8**	**62**	**163.8**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	34.9		34.9	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	4		4	
3	Scrubber Effluent	2		2	
4	RO/DM rejects	8		8	
5	Boiler Blow downs		3.6	3.6	
6	Cooling Tower Blow downs		10.8	10.8	
7	Domestic		3.6	3.6	
	Total effluent Quantity	**48.9**	**18**	**66.9**	

CHAIRMAN, SEAC

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	14 TPD	Sold to Brick manufactures
2	Solvent residue	1.21 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Process Organic residue	1.02 TPD	
4	Carbon	99 Kg/Day	
5	Catalyst	97.4 Kg/Day	Sent to TSDF
6	Mixed Solvents	3.13 KLD	Sent to Cement Industries for Co-incineration/Disposed to end users.
7	Spent Solvents	28.1 KLD	
8	Stripper Distillate	1.84 KLD	Sent to Cement Industries for Co-incineration.
9	Evaporation salts	2.35 TPD	Sent to TSDF
10	ETP Sludge	0.25 TPD	
11	Detoxified containers	300 No.s/Yr	Sold to authorized vendors
12	Waste oil	0.62 KL/annum	Sent to Authorized Recyclers
13	Used batteries	6 No.s/Yr	

The SEAC observed from the google map that constructions are existing and the details of constructions and its activities are not mentioned in the application. Hence, the proponent is instructed to submit the details of existing constructions and its activities along with permissions obtained for the existing activities, within one week time.

Agenda Item No. 05	**M/s. Mika Laboratories Pvt. Ltd. Unit-I, Sy. No. 555(P), 556(P), & 557(P), Rajampet Village, Rajampet Mandal, Kadapa Reddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176478/2020 (EC)**

The representative of the project proponent Sri P. Mithileshwar Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 17.2 acres, out of which Green area is 5.7 acres (33.14%).

Nearest human habitation is Peddapalli Village is at 0.58 km; Nearest vagu is at 40 mts and water body is at a distance of 290 mts, Nearest RF is Lingampet is at 1.6 km from the industry.

Project Cost is Rs. 30 Crores. Budget for Environmental protection towards Capital Cost is Rs. 10.48 crores and Recurring Cost is Rs.10.39 crores. Budget for CER is Rs. 60lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S. No	Name of Product	Capacity	
		TPM	Kg/Day
1	Alendronate Sodium	3	100
2	Aripiprazole	9	300
3	Atorvastatin Calcium	1.2	40
4	Azacitidine	3	100

CHAIRMAN, SEAC

5	Bicalutamide	3	100
6	Bortezomib	0.45	15
7	Candesartan	2.25	75
8	Capecitabine	**12**	400
9	Carvedilol	6	200
10	Celecoxib	**12**	400
11	CetrizineHCl	6	200
12	Citalopram HBr	4.5	150
13	Clopidogrel Bi Sulphate	3	100
14	Disodium Pamidronate	1.5	50
15	Divalprox Sodium	**15**	500
16	DocetaxalTrihydrate	0.3	**10**
17	Domperidone	3	100
18	Donepezil HCl	3	100
19	Dronedarone HCl	**9**	300
20	Duloxetine HCl	3	100
21	Esomeprazole Mg	**15**	500
22	Ezitimibe	3	100
23	Febuxostat	3	100
24	Fexofenadine Hydrochloride	3	100
25	Finasteride	0.6	20
26	Fluconazole	3	100
27	Fluvetine	**15**	500
28	Gemcitabine HCl	3	100
29	Glimipiride	3	100
30	Glipizide	3.75	125
31	Ibandronate Na	3	100
32	Lamotrigine	**9**	300
33	Lansoprazole	3.75	125
34	Levetiracetam	**15**	500
35	Levo Cetirizine HCl	2.25	75
36	Levofloxacin	3	100
37	Loratadine	3	100
38	Losortan Potassium	**15**	500
39	Montelukast Na	**15**	500
40	Omeprazole	3	100
41	Paclitaxel	0.6	20
42	Pantoprazole Sodium	**9**	300
43	Paroxetine HCl	3	100
44	Pioglitazone Hydrochloride	1.5	50
45	Pitavastatin Calcium	1.8	60
46	Prasugrel HCl	4.5	150
47	Pregabalin	**7.5**	250
48	Rabeprazole Sodium	3.75	125
49	Raloxifene	3	100
50	Residronate Sodium	2.4	80
51	Sertraline HCl	**7.5**	250
52	Simvastatin	3	100
53	Tamsulosin HCl	3	100
54	Telmisartan	3	100
55	Valsartan	7.5	250
56	Venlafaxine HCl	7.5	250
57	Zafirlukast	3	100
58	Ziprasidone HCl	3	100
59	Zoledronic Acid	3	100
60	Zolmitriptan	3	100
Total - Worst Case 14 Products on campaign basis		**165**	**5500**

CHAIRMAN, SEAC

By Products

S. No	Product Name	Stage	Name of by product	Quantity (Kg/day)
1	Prasugrel Hydrochloride	I	Trityl Chloride	110

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH & 1 x 6 TPH (standby)	 35 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 3 x 1000 kVA	10 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Ammonia, hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	97.9		97.9
2	Washings	10		10
3	Scrubber	6		6
4	R & D	3		3
5	Boiler Feed	54		54
6	Cooling Tower	20	182	202
7	RO/DM Plant	15		15
8	Domestic	20		20
9	Gardening	20		20
	Total	**245.9**	**182**	**427.9**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	105		105	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	10		10	
3	R & D	3		3	
4	Scrubber Effluent	6		6	
5	RO/DM rejects	15		15	
6	Boiler Blow downs		7	7	
7	Cooling Tower Blow downs		30	30	
8	Domestic		16	16	
	Total effluent Quantity	**139**	**53**	**192**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	3.4 TPD	Sold to Brick manufactures
2	Organic residue	6.03 TPD	Sent to TSDF/Cement Industries
3	Process Inorganic residue	1.73 TPD	Sent to TSDF
3	Solvent Residue	6.07 TPD	Sent to TSDF/Cement Industries
4	Stripper Distillate	2.4 KLD	Sent to TSDF/Cement Industries
5	Spent Carbon	378 Kg/day	Sent to TSDF/Cement Industries
6	Hyflow	164 Kg/day	Sent to TSDF
7	Catalyst	320 Kg/day	

CHAIRMAN, SEAC

8	Mixed Solvents	17.1 KLD	Disposed to end users
9	Spent Solvents	153.9 KLD	Sent to Cement Industries for Co-incineration.
10	Evaporation Salts	6.69 TPD	Sent to TSDF
11	ETP Sludge	185 Kg/day	
12	Detoxified containers	600 Nos/year	After detoxification sent to Authorized agencies
13	Waste oil	66 lts/Month	Sent to Authorized Recyclers
14	Used batteries	24 Nos. s/year	Sent to Authorized Recyclers

The SEAC noted from the google map that a vagu exists at a distance of 40 mts and a water body is located in the downstream at a distance of 290 mts from the proposed site. Hence, the proposal may be rejected as per the siting guidelines.

Agenda Item No. 06	**M/s. Syntho Chirals Pvt. Ltd, Unit-II., Sy.No.101, 102 &103, Peddaipally Village, Rajampet Mandal, Kama Reddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176482/2020 (EC)**

The representative of the project proponent Sri Ragi Linga Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 30.08 acres, out of which Green area is 10.16 acres (33.8%).

Nearest human habitation is Arepalli Village@ 1.2 km; Nearest water body is Talmadla Water Tank @1.28 km; Nearest RF isLingampet@ 1.2 km from the industry.

Project Cost is Rs. 45 Crores. Budget for Environmental protection towards Capital Cost is Rs. 10.33 crores and Recurring Cost is Rs.11.70 crores. Budget for CER is Rs. 94 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S. No	Name of Product	Capacity	
		Kg/Day	TPM
1	Losartan Potassium	500	15
2	Telmisartan	500	15
3	Norfloxacin	500	15
4	Ofloxacin	300	9
5	Levofloxacin	300	9
6	Ritonavir	200	6
7	Levetiracetam	250	7.5
8	Carbamazepine	200	6
9	Valsartan	500	15
10	Olmesartan	500	15
11	Atorvastin Calcium	500	15
12	Acyclovir	500	15
13	Lopinavir	500	15
14	Abacavir Sulphate	25	0.8
15	Clopidogrel Bisulphate	115	3.5

CHAIRMAN, SEAC

16	Cyclobenzaprine HCl	100	3
17	Donepezil HCl	42	1.26
18	Domperidone	600	18
19	Loratadine	400	12
20	Itraconazole	100	3
21	Gabapentin	1000	30
22	2-(1-(2-amino-2-oxoethyl) cyclohexyl) acetic acid	2000	60
23	Pregabalin	200	6
24	Quetiapine Hemifumarate	300	9
25	Irbesartan	200	6
26	Citalopram HBr	50	1.5
27	Celecoxib	100	3
28	Sertraline Hydrochloride	250	7.5
29	Nevirapine	150	4.5
30	Darunavir	20	0.6
31	Effavirenz	300	9
32	Remdesivir	100	3
33	Hydroxy Chloroquine Sulfate	80	2.4
34	Escitalopram Oxalate	600	18
35	Lamotrigine	200	6
36	Enalapril maleate	500	15
37	Ciprofloxacin	2000	60
38	Dasatinib	20	0.6
39	Imatinib Mesylate	100	3
40	Gemcitabine HCl	50	1.5
41	Labetalol	500	15
42	Ticagrelor	500	15
43	Amoxicillin	33	1
44	Azithromycin	33	1
45	Ceftriaxone	75	2.3
46	Cefixime	500	15
47	Cefalexine	500	15
48	Metformin Hcl	500	15
49	Clindamycin Palmiate HCl	170	5.1
50	Meropenem intermediate	500	15.0
51	Paracetamol	500	15
52	11-Piperazino Dibenzo [b,f] [1,4] Thiazepine Hydrochloride	250	7.5
53	2-[[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole	400	12
54	2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl]methyl] sulfanyl]-1H-benzimidazole	400	12
55	2[[[3-Methyl-4-(nitro)-2-pyridinyl]methyl]sulfanyl]-1H-benzimidazole	25	0.8
56	2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl]thio}-5-methoxy-1H-benzimidazole	100	3
57	Asprin	1500	45
58	Oxcarbazepine	250	7.5
59	Clarythromycine	200	6
60	R&D and Validation Products	2	0.06
	Total -Worst Case 10 Products	**9700**	**291**

By Products

S. No	Name of Product	Stage	Name of By Product	Quantity (Kg/day)
1	Acyclovir	I	Acetic acid	416.3
		II	Acetic anhydride	299.5
2	Quetiapine Hemifumarate	III	Phosphoric acid (20%)	6271
3	Hydroxy Chloroquine Sulfate	I	Phosphoric acid	54

CHAIRMAN, SEAC

4	Amoxicillin	III	Trimethylsilanol	8.1
			Methyl acetoacetate	10.5
			Pivalic acid	9.2
5	Cefixime	I	Tri phenyl phosphine oxide	336
		II	Phenyl Acetic Acid	140.6
		III	2-mercapto benzothiazole	184.3
6	Cefalexine	III	Ethyl aceto acetate	168.6
			Pivalic acid	147.7
7	Paracetamol	I	Acetic acid	223.2
8	11-Piperazino Dibenzo [b, f] [1, 4] Thiazepine. Hydrochloride	IV	Piperazine.HCl	92.4
		III	Polyphosphoric acid	500
9	2- [[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole	II	Sodium Acetate	114.3
			Spent Acetic Acid	83.7
10	2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl] methyl] sulfanyl]-1H-benzimidazole	I	Spent Acetic Acid	300
			Sodium Acetate	121
11	2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl]thio}-5-methoxy-1H-benzimidazole	I	Ammonium persulphate Dimethyl sulphate salt	155.9

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 1 x 5 TPH 1 x 3 TPH (standby)	 35 m 30 m 30 m	 Bag filter Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA & 2 x 500 kVA	10 meach	Effective stack height
3	**Thermic Fluid Heater** Proposed: 2 x 2 Lakh K.cal/hr	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Ammonia, hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	154		154
2	Washings	8		8
3	Scrubber	5		5
4	Boiler Feed	70	45	115
5	Cooling Tower	120	225	345
6	RO/DM Plant	25		25
7	Domestic	10		10
8	Gardening	10		10
	Total	**402**	**270**	**672**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	165.5		165.5	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	8		8	
3	Scrubber Effluent	5		5	
4	RO/DM rejects	25		25	
5	Boiler Blow downs		12	12	
6	Cooling Tower Blow downs		62	62	
7	Domestic		9	9	
Total effluent Quantity		**203.5**	**83**	**286.5**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Process Organic residue	11.2 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	5.2 TPD	
3	Spent Carbon	524 Kg/day	
4	Hyflow	168.2 Kg/day	Sent to TSDF
5	Evaporation Salts	10.7 TPD	
6	Catalyst	188.2 Kg/day	
7	Inorganic Residue	865.5 Kg/day	
8	ETP Sludge	3.3 TPD	
9	Boiler Ash	6.13 TPD	Sent to brick manufacturers
10	Spent Solvents	161.8 KLD	Sent to cement plants for co-incineration.
11	Spent Mixed solvents	40.4 KLD	Disposed to end users
12	Stripper Distillate	4.7 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
13	Waste oils & Grease	5 KLPA	Sent to authorized agencies
14	Used Lead acid Batteries	35 Nos/ Year	Sent to suppliers on buy back basis
15	Bio medical waste	6 Kg/ Month	Sent to authorized common biomedical treatment facility
16	Detoxified containers & bags	900 Nos / Month	Sent to authorized recyclers
17	Used PPE	20 Kgs/ Month	Sent to authorized vendor
18	E- Waste	0.2 TPA	Authorized recyclers
19	Plastic Waste	0.1 TPA	Authorized recyclers
20	Metal Scrap	10 TPM	Sale to outside agencies/ recyclers
21	Used Filters (HEPA filters, Oil Filters)	85 Nos /year	Sent to TSDF
22	Used / Discarded RO Membranes	0.2 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 07	**M/s. Surabhi Industries India Pvt. Ltd., Plot No. 134, Sy.No. 201, 203, 210 & Sy.No. 80, Phase -III, IDA Pashamailaram, Patancheru Mandal, Sangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176280/2020 (EC)**

The representative of the project proponent Sri Ravigangapalli; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

CFO issued on 21.12.2017 with validity upto 31.10.2021 for solvent recovery system and the unit operating.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP

CHAIRMAN, SEAC

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt. 27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 7.27 acres (1.25 acres existing + 6.02 acres proposed) out of which Green area is 2.4 acres (33%).

Nearest human habitation is Rudram is at 2.62 km; Nearest water body is Kotla Cheruvu is at1.6 km; No RF exists within 10 km radius.

Project Cost for expansion is Rs.15 Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.10 crores and Recurring Cost is Rs.2.88 crores. Budget for CER is Rs. 21 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity-After Expansion

S. No	Name of Product	Capacity (TPD)
1	4'-[(2-Butyl-4-chloro-5-(hydroxy methyl)-1H-imidazol-1-yl) methyl]-[1,1'-biphenyl]-2-carbonitrile	-
2	Atorvastatin Calcium	0.5
3	Lopinavir	0.4
4	OTBN	2
5	Pantoprazole sodium	1
6	Telmisartan	0.5
7	Valsartan	0.5
8	Zidovudine	1
9	Abacavir Sulphate	0.4
10	Aripiprazole	0.3
11	Atorvastatin Calcium	0.5
12	Candesartan	0.3
13	Capecitabine	0.4
14	Clopidogrel	0.2
15	Didanosine	0.4
16	Lenalidomide	0.1
17	Letrozole	0.1
18	TenofovirDisproxilFumerate	0.5
19	Terbinafine HCl	0.3
20	Sodium Ethoxide (30%)	33.3
21	Sodium Ethoxide (Dry)	5
22	Sodium IsoPropoxide	4
23	Sodium Methoxide (30%)	50
24	Sodium Methoxide (Dry)	10
25	Validation Products	0.1
	Worst case : 9 products on Campaign basis	**107.3**

By Products-After Expansion

S. No	Name of By-product	Quantity (TPD)
1	1-Bromo-5,5-Dimethyl imidazolidine-2,4-di one	0.153
2	Sodium hydroxide solution (40%)	0.358

CHAIRMAN, SEAC

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 6 TPH Proposed: 1 x 12 TPH	 30 m 35 m	Bagfilters
2	**Thermic Fluid Heater:** Proposed: 1 x 4Lac K.Cal/hr	 30 m	Effective stack height
3	**DG Sets:** Existing: 1 x 500kVA Proposed: 1 x 750 kVA 2 x 1010 kVA	 10 m 10 m 12 m	Effective stack height

Process emissions contain hydrogen, carbon dioxide and oxygen Carbon dioxide and oxygen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	163.8		163.8
2	Washings	5		5
3	Scrubber	4		4
4	Boiler Feed	80		80
5	Cooling Tower	60	210	270
6	RO/DM Rejects	8		8
7	Domestic	12		12
8	Gardening	15		15
	Total water requirement	**347.8**	**210**	**557.8**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	169.9		169.9	Zero Liquid Discharge System ie., **HTDS:** Stripper, MEE & ATFD. **LTDS:** Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	5		5	
3	Scrubber	4		4	
4	Boiler Blow downs		5.5	5.5	
5	CT Blow downs		30	30	
6	RO/DM Rejects		8	8	
7	Domestic		10	10	
Total effluent Quantity		**178.9**	**53.5**	**232.4**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	6490.1 Kg/day	Sent to TDSF/Cement Plants for Co-incineration
3	Spent Carbon	558.5 Kg/day	
4	Spent Solvents	145.41 KLD	Sent to Cement Plants for Co-incineration
5	Spent Mixed Solvents	25.66 KLD	Disposed to end users
6	Evaporation salts	5.3 TPD	Sent to TSDF
7	Solvent residue	3733.4 Kg/day	
7	ETP Sludge	50 Kg/day	
8	Inorganic Residue	5569.7 Kg/day	
11	Ash from Boiler	183 TPM	Sold to Brick manufactures
12	Detoxified containers/drums	600 No.s/month	Sold to authorized vendors
14	Waste oil	3.73 KLts/Anuum	Sent to Authorized Recyclers
15	Used lead batteries	2 No. s/Yr	Sent to Authorized Recyclers

CHAIRMAN, SEAC

16	Detoxified poly bags	200 Kg/month	Sold out to local vendors after detoxification.

The SEAC noted that the present proposal activity of the proponent is solvent recovery from spent solvents and proposing for manufacture of APIs and the proposal comes under new activity / industry and attracts Ban notifications vide G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms.No.24 dt.24.04.2019; Hon'ble NGT order dt.24.10.2017, hence recommended to reject.

Agenda Item No. 08	**M/s. Vaidhatru Pharma Pvt. Ltd., Sy. No. 83, 86, 88 and 93, Pedaipally village, Rajampet mandal, Kamareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176499/2020 (EC)**

The representative of the project proponent Sri C.V. Bhaskar Reddy: and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 23.28 acres, out of which Green area is 7.7 acres (33.07%).

Nearest human habitation is Peddapalli village is at 920 mts; Nearest water body is Talmadla Water Tank is at 570 mts; Nearest RF is Lingampet @ 1.5 km from the industry.

Project Cost is Rs. 45 Crores. Budget for Environmental protection towards Capital Cost is Rs. 10.7 crores and Recurring Cost is Rs.12.65 crores. Budget for CER is Rs. 94 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Quantity	
		Kg/Day	TPM
1	2-(1-(2-amino-2-oxoethyl) cyclohexyl) acetic acid	2000	60
2	Abacavir Sulphate	25	0.8
3	Acyclovir	500	15
4	Amoxicillin	33	1
5	Aspirin	1500	45
6	Atorvastin Calcium	500	15
7	Azithromycin	33	1
8	Carbamazepine	200	6
9	Cefalexine	500	15
10	Cefixime	500	15
11	Ceftriaxone	75	2.3
12	Celecoxib	100	3
13	Ciprofloxacin	2000	60
14	Citalopram HBr	50	1.5
15	Clarythromycine	200	6
16	Clindamycin Palmiate HCl	170	5.1
17	Clopidogrel Bisulphate	115	3.5
18	Cyclobenzaprine HCl	100	3
19	Darunavir		

CHAIRMAN, SEAC

S.No	Name of Product	Quantity	
		Kg/Day	TPM
20	Dasatinib	20	0.6
21	Domperidone	500	15
22	Donepezil HCl	42	1.26
23	Effavirenz	300	9
24	Enalapril maleate	500	15
25	Escitalopram Oxalate	500	15
26	Gabapentin	1000	30
27	Gemcitabine HCl	50	1.5
28	Hydroxy Chloroquine Sulfate	80	2.4
29	Imatinib Mesylate	100	3
30	Irbesartan	200	6
31	Itraconazole	100	3
32	Labetalol	500	15
33	Lamotrigine	200	6
34	Levetiracetam	250	7.5
35	Levofloxacin	300	9
36	Lopinavir	500	15
37	Loratadine	400	12
38	Losartan Potassium	500	15
39	Meropenem intermediate	500	15
40	Metformin Hcl	500	15
41	Nevirapine	150	4.5
42	Norfloxacin	500	15
43	Ofloxacin	300	9
44	Olmesartan	500	15
45	Oxcarbazepine	250	7.5
46	Paracetamol	500	15
47	Pregabalin	200	6
48	Quetiapine Hemifumarate	300	9
49	Remdesivir	100	3
50	Ritonavir	200	6
51	Sertraline Hydrochloride	250	7.5
52	Telmisartan	500	15
53	Ticagrelor	500	15
54	Valsartan	500	15
55	R&D and Validation Products	2	0.06
	Total -Worst Case 10 Products	**9500**	**285**

By Products

S. No	Name of Product	Stage	Name of By Product	Quantity (Kg/day)
1	Acyclovir	I	Acetic acid	416.3
		II	Acetic anhydride	299.5
2	Quetiapine Hemifumarate	III	Phosphoric acid (20%)	6271
3	Hydroxy Chloroquine Sulfate	I	Phosphoric acid	54
4	Amoxicillin	III	Trimethylsilanol	8.1
			Methyl acetoacetate	10.5
			Pivalic acid	9.2
5	Cefixime	I	Tri phenyl phosphine oxide	336
		II	Phenyl Acetic Acid	340.6
		III	2-mercapto benzothiazole	184.3
6	Cefalexine	III	Ethyl aceto acetate	168.6
			Pivalic acid	147.7
7	Paracetamol	I	Acetic acid	223.2

CHAIRMAN, SEAC

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 2 x 5 TPH 1 x 3 TPH (standby)	 35 m 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed 3 x 1010 kVA 2 x 500 kVA	10 meach	Effective stack height
3	**Thermic fluid heater:** Proposed 2 x 2 Lakh Kcal	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, hydrogen bromide, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Ammonia, hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	154		154
2	Washings	8		8
3	Scrubber	5		5
4	Boiler Feed	70	45	115
5	Cooling Tower	120	225	345
6	RO/DM Plant	25		25
7	Domestic	10		10
8	Gardening	10		10
	Total	**402**	**270**	**672**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	165.5		165.5	Zero Liquid Discharge System ie.,
2	Washings	8		8	
3	Scrubber Effluent	5		5	**HTDS:** Stripper, MEE & ATFD.
4	RO/DM rejects	25		25	
5	Boiler Blow downs		12	12	**LTDS:** Biological ETP & RO.
6	Cooling Tower Blow downs		62	62	
7	Domestic		9	9	Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
	Total effluent Quantity	**203.5**	**83**	**286.5**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	11.2 TPD	Sent to cement plants for co-incineration/TSDF.
2	Solvent residue	5.2 TPD	
3	Spent Carbon	524 Kg/day	
4	Hyflow	168.2 Kg/day	Sent to TSDF
5	Evaporation Salts	10.7 TPD	
6	Catalyst	188.2 Kg/day	
7	Inorganic Residue	865.5 Kg/day	
8	ETP Sludge	3.3 TPD	
9	Boiler Ash	6.13 TPD	Sent to brick manufacturers
10	Spent Solvents	161.8 KLD	Sent to cement plants for co-

CHAIRMAN, SEAC

			incineration.
11	Spent Mixed solvents	40.4 KLD	Disposed to end users
12	Stripper Distillate	4.7 KLD	Sent to cement plants for co-incineration/TSDF
13	Waste oils & Grease	5 KLPA	Sent to authorized agencies
14	Used Lead acid Batteries	35 Nos/ Year	Sent to suppliers on buy back basis
15	Bio medical waste	6 Kg/ Month	Sent to authorized common biomedical treatment facility
16	Detoxified containers & bags	900 Nos / Month	Sent to authorized recyclers
17	Used PPE	20 Kgs/ Month	Sent to authorized vendor
18	E- Waste	0.2 TPA	Authorized recyclers
19	Plastic Waste	0.1 TPa	Authorized recyclers
20	Metal Scrap	10 TPM	Sale to outside agencies/ recyclers
21	Used Filters (HEPA filters, Oil Filters)	85 Nos /year	Sent to TSDF
22	Used / Discarded RO Membranes	0.2 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 09	**M/s. Synthochirals Life Sciences Pvt. ltd. Unit I, Sy.No. 555 (Part), 556 (Part), 557 (Part), Rajampet village and mandal, Kamareddy Disctrict. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176493/2020 (EC)**

The representative of the project proponent Sri Ragi Sridhar Reddy, and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 17 acres, out of which Green area is 6.8 acres (34.1%).

Nearest human habitation is Peddapalli Village @ 1.0 km; Nearest water body is Talmadla Water Tank@1.69km; Nearest RF isLingampet @ 1.6 km from the industry.

Project Cost is Rs. 65 Crores. Budget for Environmental protection towards Capital Cost is Rs. 12.45 crores and Recurring Cost is Rs.18.92 crores. Budget for CER is Rs. 136.5 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Capacity	
		Kg/Day	TPM
1	Abiraterone acetate	600	18
2	Anastrozole	100	3
3	Capecitabine	2500	75
4	Dexlansoprazole	750	22.5
5	Gemcitabine Hydrochloride	200	6
6	Granisetron Hydrochloride	950	29
7	Hydroxy Chloroquine Sulfate	1000	30

CHAIRMAN, SEAC

8	Ibandronate Sodium	600	18
9	Imatinib mesylate	600	18
10	lansoprazole	720	21.6
11	Letrozole	650	19.5
12	Residronate Sodium	630	18.9
13	Tri Ethyl Benzyl Ammonium Chloride	7200	216
14	Zoledronic acid	1500	45
	Total	**18000**	**540**

By Products

S.No	Name of Product	Stage	Name of By-Product	Quantity	
				Kg/day	TPM
1	Dexlansoprazole	I	2-phenylpropan-2-ol	276.5	8.3
2	Hydroxy Chloroquine Sulfate	I	Phosphoric acid	251.3	7.5
			Ethanol	119.0	3.6
3	lansoprazole	II	Ammonia sulphate	590.5	17.7
4	Residronate Sodium	I	Phosphorous acid	296.2	8.9
			Hydrochloric Acid (20%) from Scrubber	2101.6	63.0

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 10 TPH 2 x 5 TPH (1 x 5 TPH shall be kept standby)	35 m 30 m	Bag filter Bag filter
2	**DG Sets:** Proposed: 5 x 1010 kVA & 4 X 500 Kva	10 m each	Effective stack height
3	**Thermic fluid heater:** Proposed: 2 x 4 Lakh Kcal	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, sulfur dioxide. Ammonia, hydrogen chloride and sulphur dioxide are sent to scrubber in series Sodium chloride from hydrogen chloride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	255.7		255.7
2	Washings	15		15
3	Scrubber	10		10
4	Boiler Feed	90	50	140
5	Cooling Tower	50	350	400
6	RO/DM Plant	20		20
7	Domestic	30		30
8	Gardening	12		12
	Total	**482.7**	**400**	**882.7**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	280.4		280.4	Zero Liquid Discharge System ie.. **HTDS**. Stripper. MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	15		15	
3	Scrubber Effluent	10		10	
4	RO/DM rejects	20		20	
5	Boiler Blow downs		15	15	
6	Cooling Tower Blow downs		52	52	
7	Domestic		27	27	
	Total effluent Quantity	**325.4**	**94**	**419.4**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	9.97 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	6.9 TPD	
3	Spent Carbon	1206 Kg/day	
4	Hyflow	367 Kg/day	Sent to TSDF
5	Evaporation Salts	16.46 TPD	
6	Inorganic Residue	5.29 TPD	
7	ETP Sludge	6.96 TPD	
8	Boiler Ash	10.23 TPD	Sent to brick manufacturers
9	Spent Solvents	305.29 KLD	Sent to Cement Industries for Co-incineration/Disposed to end users.
10	Spent Mixed solvents	53.87 KLD	
11	Stripper Distillate	6.94 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	11.63 KLPA	Sent to authorized agencies
13	Used Lead acid Batteries	50 No. s/Year	Sent to suppliers on buy back basis
14	Bio medical waste	20 Kg/ Month	Sent to authorized common biomedical treatment facility
15	Detoxified containers & bags	1000 Nos / Month	Sent to authorized recyclers
16	Used PPE	30 Kgs/ Month	Sent to authorized vendor
17	E- Waste	1 TPA	Authorized recyclers
18	Plastic Waste	5 TPA	Authorized recyclers
19	Metal Scrap	20	Sale to outside agencies/ recyclers
20	Used Filters (HEPA filters, Oil Filters etc)	150 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	5 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 10	**M/s. Mika Life Sciences Pvt. Ltd. Sy. No: 106, 107, 108, Pedaipally Village, Rajampet Mandal, Kama Reddy District. - Environmental** Clearance - Reg.
Proposal No.	**SIA/TG/IND2/176501/2020 (EC)**

The representative of the project proponent Sri E. Shashi Bhushan; and Sri G.V. Reddy of M/s. Team Labs & Consultants. Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

CHAIRMAN, SEAC

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 19.50 acres, out of which Green area is 6.4 acres (33.2%).

Nearest human habitation is Arepalli Village @1.6 km; Nearest water body are a stream at 20 mts & Talmadla Water Tank is at 950 mts; Nearest RF is Lingampet @ 1.2km from the industry.

Project Cost is Rs. 40 Crores. Budget for Environmental protection towards Capital Cost is Rs. 5.93 crores and Recurring Cost is Rs.5.20 crores. Budget for CER is Rs. 80 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Capacity	
		TPM	Kg/day
1	Alfuzosin Hydrochloride	24	800
2	AliskirenHemifumarate	24	800
3	Clopidogrel	18	600
4	Clopidogrel Bisulfate	18	600
5	Duloxetine Hydrochloride	3	100
6	Eplerenone	5	150
7	Ketorolac Tromethamine	9	300
8	Rosuvastatin Calcium	6	200
9	Terbinafine Hydrochloride	9	300
10	Rifaximin	30	1000
11	Prasugrel Hydrohloride	8	250
12	OlmisartaMedoxomil	18	600
13	Trospium Chloride	5	150
14	Voriconazole	8	250
15	Citicoline Sodium	18	600
16	Celicoxib	3	100
17	Montulakast sodium	12	400
18	Moxifloxacin Hydrochloride	12	400
19	Veraparnil	23	750
20	Sumatriptan Succinate	5	150
21	Pregabaline	8	250
22	Tadalafil	12	400
23	Sexaglipton	3	100
24	Sildenafil Citrate	3	100
25	Lacosamide	6	200
26	Atorvastatin Calcium	5	150
27	Pentaprazole Sodium	24	800
28	Capacitabin	7.5	250
29	Imatinib Mesylate	3	100
	Total Worst Case 8 Products	**178.5**	**5950**
30	R & D	1.5	50
	Grand Total	**180**	**6000**
	Co-Generation Power Plant		5 MW

CHAIRMAN, SEAC

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 30 TPH 1 x 10 TPH 1 x 5 TPH (1 x 10 TPH & 1 x 5 TPH shall be kept Standby after establishment of 1 x 30 TPH boiler)	40 m 35 m 30 m	Bag filter Bag filter Bag filter
2	**DG Sets:** Proposed: 2 x 500 kVA, 4 x 1010 kVA and 2 x 1500 kVA	5 m, 7 m & 10 m	Effective stack height
3	**Thermic fluid heater:** Proposed: 2 x 4 Lakh K.cal/hr	30 m	Effective stack height

Process emissions contain hydrogen, hydrogen chloride, sulfur dioxide, carbon dioxide and oxygen. Hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride and sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide and oxygen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	167.1		167.1
2	Washings	15		15
3	Scrubber	12		12
4	R & D	3		3
5	Boiler Feed	120	50	170
6	Cooling Tower	275	320	595
7	RO/DM Plant	42		42
8	Domestic	15		15
9	Gardening	13		13
	Total	**662**	**370**	**1032.1**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	183.6		183.6	Zero Liquid Discharge System ie., **HTDS**: Stripper. MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	15		15	
3	R & D		3	3	
4	Scrubber Effluent	12		12	
5	RO/DM rejects	42		42	
6	Boiler Blow downs		30	30	
7	Cooling Tower Blow downs		98	98	
8	Domestic		13	13	
	Total effluent Quantity	**252.6**	**144**	**396.6**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	48 TPD	Sold to Brick manufacturers and cement plants
2	Organic residue	8.4 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	8.7 TPD	Sent to TSDF/Cement Industries

CHAIRMAN, SEAC

4	Spent Solvent	309 KLD	Sent to Cement Plants for Co-incineration
5	Mixed Solvent	34 KLD	Disposed to end users
6	Stripper Distillate	11 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	1.67 TPD	Sent to Cement Industries for Co-incineration.
8	Hyflow	300 Kg/day	Sent to TSDF
9	Catalyst	120 Kg/day	Sent to TSDF
10	Inorganic Residue	2.4 TPD	Sent to TSDF
11	Evaporation salts	13 TPD	Sent to TSDF
12	Insulation waste	2 TPD	Sent to TSDF
13	ETP Sludge	3 TPD	Sent to TSDF/ Cement plants for co-incineration
14	Detoxified containers	20000 Nos/Yr	Sold to authorized vendors
15	PVC waste	50 Kg/Day	Sold to authorized vendors
16	Waste oil	24 KLPA	Sent to Authorized Recyclers
17	Used batteries	800 Nos/Yr	Sent to Authorized Recyclers
18	E waste	1 TPA	Sent to Authorized Recyclers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 11	**M/s. Syntho Chirals Pvt. Ltd Unit - 1, Sy. No. 32, Peddaipally Village, Rajampet Mandal, Kama Reddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176503/2020 (EC)**

The representative of the project proponent Sri Ragi Linga Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants. Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 12.55 acres, out of which Green area is 4.3 acres (33.2%).

Nearest human habitation is Peddaipalli Village is at 0.9 km; Nearest water bodies are at a distance of 660 mts & Talmadla Water Tank is at 860 mts; Nearest RF is Lingampet @ 1.5 km from the industry.

Project Cost is Rs. 20 Crores. Budget for Environmental protection towards Capital Cost is Rs. 5.12 crores and Recurring Cost is Rs. 5.02 crores. Budget for CER is Rs.52 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S. No	Name of Product	Capacity	
		Kg/Day	TPM
1	Amlodipine Besylate	480	144
2	Clopidogrel Bisulfate	200	60
3	Lansoprazole	300	90
4	Rabeprazole Sodium	500	150
5	Valsartan	400	120
6	Dexlansoprazole	300	90
7	Esomeprazole	880	264

CHAIRMAN, SEAC

8	Dabigatranetexilate mesylate	200	60
9	Itraconazole	200	60
10	Fluconazole	300	90
11	Omeprazole	171	51.3
12	Domperidone	120	36
13	Tamsulosin	50	15
14	Montelukast Sodium	100	30
15	Pantaprazole Sodium	120	36
16	4-Nitro 2,3-dimethyl pyridine N-oxide	320	96
17	2-Hydroxymethyl-3-methyl-4-[2, 2, 2-trifluoro ethoxy] pyridine HCl	910	273
18	2-Chloromethyl-3-methyl-4-[2.2.2-tri fluoro ethoxy] pyridine HCl	400	120
19	2- [[[3-Methyl-4-(2,2,2trifluro-ethoxy) -2-pyridinyl] methyl] thio]-1Hbenzimidazole	300	90
20	4-Chloro-2, 3-dimethylpyridine-N-oxide	300	90
21	2-Hydroxymethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl	300	90
22	2-Chloromethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl	300	90
23	2[[(4-(3-Methoxypropoxy)-3-Methylpyridine-3-yl) methyl] thio]-1H-Benzimidazole (Rabe Sulphide)	300	90
24	4-Nitro-2, 3, 5-trimethylpyridine-N-oxide	480	144
25	2-Hydroxymethyl-3,5-dimethyl-4-methoxy pyridine hydrochloride	450	135
26	2-Chloromethyl-4-methoxy-3, 5-dimethyl pyridine hydrochloride	300	90
27	5-Methoxy-2-[[4methoxy-3, 5-dimethylpyridin-2-yl) methyl] thio] -1H-benzimidazole	400	120
28	4-[4-[4-(4-methoxyphenyl)-1-piperazinyl] phenyl]-2,4 dihydro - 3H-1, 2, 4-triazol-3-one	500	150
29	2, 4-Dihydro-4-4-[4-(4-Hydroxy phenyl)-1-piperazinyl] phenyl]-2-(1-methylpropyl)-3H-1, 2, 4-triazol-3-one	200	60
30	Cis-2-(2, 4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1, 3-dioxolan-4-ylmethyl methane sulphonate	400	120
31	Cis-[2-Bromomethyl-2-(2,4-dichlorophenyl)-1,3-dioxolan-4-yl] methyl Benzoate	500	240
32	R&D and Validation Products	5	1.5
	Total - Worst Case 9 Products on campaign basis	**5400**	**1620**

By Products

S.No	Name of the Product	Stage	By Products	Quantity (Kg/day)
1	Lansoprazole	II	Ammonium sulfate	581.9
2	Valsartan	II	Tri Ethyl Amine HCl	163.4
3	Raheprazole	V	Ammonium sulfate	313
4	Esomeprazole Magnesium Dihydrate	II	Ammonium sulfate	2135

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 5 TPH 1 x 8 TPH	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1 x 500 kVA	10 meach	Effective stack height
3	**Thermic Fluid Heater** Proposed: 1 x 2 Lakh K.cal/hr	30 m	Effective stack height

CHAIRMAN, SEAC

Process emissions contain ammonia, hydrogen, hydrogen chloride, sulfur dioxide, carbon dioxide and nitrogen. Ammonia, hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	81.4		81.4
2	Washings	8		8
3	Scrubber	10		10
4	Boiler Feed	45	35	80
5	Cooling Tower	120	135	255
6	RO/DM Plant	15		15
7	Domestic	9		9
8	Gardening	8		8
	Total	**296.4**	**170**	**466.4**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	89.2		89.2	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	8		8	
3	Scrubber Effluent	10		10	
4	RO/DM rejects	15		15	
5	Boiler Blow downs		8	8	
6	Cooling Tower Blow downs		50	50	
7	Domestic		8	8	
	Total effluent Quantity	**122.2**	**66**	**188.2**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	4.03 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	3.49 TPD	
3	Spent Carbon	145.4 Kg/day	
4	Hyflow	36.5 Kg/day	Sent to TSDF
5	Evaporation Salts	4.47 TPD	
6	Inorganic Residue	395.6 Kg/day	
7	ETP Sludge	1.68 TPD	
8	Boiler Ash	4.77 TPD	Sent to brick manufacturers
9	Spent Solvents	112 KLD	Sent to cement plants for co-incineration.
10	Spent Mixed solvents	28 KLD	Disposed to end users
11	Stripper Distillate	1.49 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	2.49 KLPA	Sent to authorized agencies
13	Used Lead acid Batteries	24 Nos/Year	Sent to suppliers on buy back basis
14	Bio medical waste	5 Kg/Month	Sent to authorized common biomedical treatment facility
15	Detoxified containers & bags	650 Nos / Month	Sent to authorized recyclers
16	Used PPE	15 Kgs/ Month	Sent to authorized vendor
17	E- Waste	0.2 TPA	Authorized recyclers
18	Plastic Waste	0.1 TPA	Authorized recyclers
19	Metal Scrap	8 TPA	Sale to out side agencies/ recyclers

CHAIRMAN, SEAC

20	Used Filters (HEPA filters, Oil Filters etc)	80 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 12	**M/s. Syntho Chirals Life sciences Pvt. Ltd. Unit-II., Sy.No.91, 92, 93 & 95, Pedaipally (V), Rajampet (M), Kama Reddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176506/2020 (EC)**

The representative of the project proponent Sri Ragi Sridhar Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP, G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 22.84 acres. out of which Green area is 7.6 acres (33.27%).

Nearest human habitation is Arepalli village is at 1.45 km; Nearest water bodies are stream is at 20 mts & Talmadla cheruvu is at 640 mts: Nearest RF is Lingampet is at 1.2 km from the industry.

Project Cost is Rs. 42 Crores. Budget for Environmental protection towards Capital Cost is Rs. 8.02 crores and Recurring Cost is Rs.7.30 crores. Budget for CER is Rs.85 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Capacity (Kg/day)
1	3-(dimethyl amino)-2-methyl-2-propenal	66.7
2	4,7-Dichloroquinoline	233.3
3	4-Benzyloxy-3-Nitrophenacyl Bromide	66.7
4	(4R-Cis)-1,1-dimethylethyl-6-(2-aminoethyl)-2,2-dimethyl-1,3-dioxane-4-acetate (Amino Ketal)	800
5	Atorvastatin calcium	850
6	Bexarotene	75
7	Carfilzomib	50
8	Benzyl n-[(2r)-1-benzyl-3-chloro-2-hydroxy propyl] carbamate	100
9	N-benzyloxy carbonyl-l-valine	2000
10	Cevimeline hydrochloride	200
11	Clofarabine	50
12	Benzyl n-[(2r)-1-benzyl-3-chloro-2-hydroxy propyl] carbamate	500
13	Favipiravir	500
14	Felbamate	500
15	Hydroxy chloroquine sulfate	500
16	Hydroxynovaldiamine	650
17	Itraconazole	300
18	Lopinavir	150
19	Netupitant	200

CHAIRMAN, SEAC

20	Olmesartanmedoxomil	750
21	Oseltamivir phosphate	400
22	Pentostatin	50
23	N-[(S)-2,3,4,5,6-pentafluorophenoxy) phenoxyphosphenyl]-L-alanine-1-methyl ethyl ester	850
24	Ponatinib hydrochloride	66.67
25	Primaquine diphosphate	700
26	Potassium 5-methyl-1,3,4-oxadiazole-2-carboxylate	150
27	Raltegravir Potassium	150
28	Remdesivir	200
29	Ribavirin	500
30	Riluzole	500
31	Ritonavir	500
32	Saxagliptin Monohydrate	250
33	Tenofovirdisoproxil fumarate	700
34	Tetrabenazine	700
35	Ticagrelor	300
36	Ursodeoxycholic acid (Ursodiol)	50
37	Verapamil Hydrochloride	116.67
	Total - Worst Case 10 Products	**8500**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 5 TPH (1 x 5 TPH shall be standby) 1 x 6 TPH	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 2 x 1010 kVA and 2 x 500 kVA	10 meach	Effective stack height
3	**Thermic Fluid Heater** Proposed: 2 x 2 Lakh K.cal/hr	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Ammonia, hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	63.2		63.2
2	Washings	5		5
3	Scrubber	5		5
4	Boiler Feed	45	20	65
5	Cooling Tower	85	115	200
6	RO/DM Plant	10		10
7	Domestic	8		8
8	Gardening	5		5
	Total	**226.2**	**135**	**361.2**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	68.3		68.3	Zero Liquid Discharge System i.e.. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	5		5	
3	Scrubber Effluent	5		5	
4	RO/DM rejects	10		10	
5	Boiler Blow downs		8	8	
6	Cooling Tower Blow downs		40	40	
7	Domestic		7	7	
	Total effluent Quantity	**88.3**	**55**	**143.3**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Process Organic residue	7.3 TPD	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	4.5 TPD	
3	Spent Carbon	1.96 TPD	
4	Inorganic Residue	3.08 TPD	Sent to TSDF
5	Evaporation Salts	10.4 TPD	Sent to TSDF
6	ETP Sludge	1 TPD	Sent to TSDF
7	Boiler Ash	4.12 TPD	Sent to brick manufacturers
8	a) Detoxified Container / Liners drums b) HDPE Carboys/ Drums	2500 No. s/month	Disposed to TSPCB Authorized agencies after complete detoxification
9	PP Bags	80 Kg/ Month	Sent to authorized agencies after detoxification
10	Spent Solvents	136 KLD	Recovered within plant premises and reused
11	Spent Mixed solvents	24 KLD	Disposed to end users
12	Stripper Distillate	1.4 KLD	Sent to cement plants for co-incineration/ TSDF
13	Waste oils & Grease	2.2 Kl/year	Sent to authorized agencies
14	Used Lead acid Batteries	24 Nos/ Year	Sent to suppliers on buy back basis
15	E waste	1 TPA	Sent to authorized agencies
16	Paper waste, & Misc.	0.5 TPM	Sent to scrap vendors
17	Contaminated cotton waste	0.01 TPM	Sent to authorized agencies
18	Contaminated filter cloth	0.01 TPM	
19	Spent resins	0.005 TPM	

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 13	**M/s. Mika Laboratories Pvt. Ltd. Unit-II, Sy. No. 39, 40, 42, 86, 87, Pedaipally Village, Rajampet Mandal, Kama Reddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176508/2020 (EC)**

The representative of the project proponent Sri P. Mithileshwar Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP, G.O.Ms No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

CHAIRMAN, SEAC

Minutes of the SEAC Meeting held on 22.01.2021

The SEAC examined the proposal as per the provisions laid under S.O.1225 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 18.61 acres, out of which Green area is 6.15 acres (33%).

Nearest human habitation is Peddaipalli village is at 710 mts; Nearest water body is Talmadla cheruvu is at 760 mts; Nearest RF is Lingampet @ 1.5 km from the industry.

Project Cost is Rs. 35 Crores. Budget for Environmental protection towards Capital Cost is Rs. 8.85 crores and Recurring Cost is Rs.9.97 crores. Budget for CER is Rs. 82 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Capacity	
		Kg/day	TPM
1	Amlodipine Besylate	480	14.4
2	ClopidogrelBisulfate	200	6
3	Lansoprazole	300	9
4	Rabeprazole Sodium	500	15
5	Valsartan	400	12
6	Dexlansoprazole	300	9
7	Esomeprazole	880	26.4
8	Dabigatran:exilatemesylate	200	6
9	Itraconazole	200	6
10	Fluconazole	300	9
11	Omeprazole	200	6
12	Domperidone	120	3.6
13	Tamsulosin	50	1.5
14	Montelukast Sodium	100	3
15	Pantaprazole Sodium	120	3.6
16	4-Nitro 2,3-dimethyl pyridine N-oxide	320	9.6
17	2-Hydroxymethyl-3-methyl-4-[2, 2, 2-trifluoro ethoxy] pyridine HCl	910	27.3
18	2-Chloromethyl-3-methyl-4-[2,2,2-tri fluoroethoxy] pyridine HCl	850	25.5
19	2- [[[3-Methyl-4-(2,2,2trifluro-ethoxy) -2-pyridinyl] methyl]thio]-1Hbenzimidazole	300	9
20	4-Chloro-2, 3-dimethylpyridine-N-oxide	300	9
21	2-Hydroxymethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl	300	9
22	2-Chloromethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl	800	24
23	2[[(4-(3-Methoxypropoxy)-3-Methylpyridine-3-yl) methyl] thio]-1H-Benzimidazole (Rabe Sulphide)	700	21
24	4-Nitro-2, 3, 5-trimethylpyridine-N-oxide	480	14.4
25	2-Hydroxymethyl-3,5-dimethyl-4-methoxy pyridine hydrochloride	450	13.5
26	2-Chloromethyl-4-methoxy-3, 5-dimethyl pyridine hydrochloride	300	9
27	5-Methoxy-2-[[4methoxy-3, 5-dimethylpyridin-2-yl) methyl] thio] -1H-benzimidazole	400	12
28	4-[4-[4-(4-methoxyphenyl)-1-piperazinyl] phenyl]-2,4 dihydro - 3H-1, 2, 4-triazol-3-one	500	15
29	2, 4-Dihydro-4-4-[4-(4-Hydroxy phenyl)-1-piperazinyl] phenyl]-2-(1-methylpropyl)-3H-1, 2, 4-triazol-3-one	200	6
30	Cis-2-(2, 4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1, 3-dioxoian-4-ylmethyl methane sulphonate	400	12
31	Cis-[2-Bromomethyl-2-(2,4-dichlorophenyl)-1,3-dioxolan-4-yl]methyl Benzoate	800	24
32	5-Cyano Phthalide	336	10.1
33	Methyl cyanoacetate	1000	30
34	1,1-Cyclo hexane di acetic acid	160	4.8

CHAIRMAN, SEAC

35	1,1-Cyclo hexane (mononide)	2000	60
36	OTBN	475	14.3
37	Glycine	350	10.5
38	Cytosine	255	7.7
39	5-Fluoro cytosine	650	19.5
40	Alpha-Naphthol	620	18.6
41	N-(2-amino-4,6 dichloropyrimidin-5-yl) formamide	120	3.6
42	Adenine	139.5	4.2
43	Valeronitrile	700	21
44	R(-)-3-Amino butanol	65	2
45	R&D and Validation Products	5	0.2
	Total - Worst Case 12 Products on campaign basis	**10410**	**312.3**

By Products

S.No	Name of the Product	By Products	Stage	Quantity (Kg/day)
1	Lansoprazole	Ammonium sulfate	II	581.9
2	Valsartan	Tri Ethyl Amine HCl	II	163.4
3	Rabeprazole	Ammonium sulfate	V	313
4	Esomeprazole Magnesium Dihydrate	Ammonium sulfate	II	2135
5	Cytosine	Ethanol	I	130
6	Alpha-Naphthol	Acetic acid	I	330
7	N-(2-amino-4,6 dichloro pyrimidin-5-yl) formamide	Phosphoric acid	I	150
8	Adenine	Aniline	III	106.2
9	R(-)-3-Amino butanol	Acetic acid	II	255
		R-Phenyl amine	III	110

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 8 TPH & 2 x 5 TPH* (* 1 x 5 TPH shall be standby)	30 m 30 m	Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1 x 500 kVA	10 meach	Effective stack height
3	**Thermic Fluid Heater** Proposed: 1 x 2 Lakh K.cal/hr	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, hydrogen bromide, sulfur dioxide, carbon dioxideandnitrogen. Ammonia, hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxideand nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	111		111
2	Washings	8		8
3	Scrubber	10		10
4	Boiler Feed	45	35	80
5	Cooling Tower	95	205	300
6	RO/DM Plant	15		15
7	Domestic	9		9
8	Gardening	8		8
	Total	**301**	**240**	**541**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	120.4		120.4	Zero Liquid Discharge System ie..
2	Washings	8		8	**HTDS**: Stripper, MEE & ATFD.
3	Scrubber Effluent	10		10	**LTDS**: Biological ETP & RO.
4	RO/DM rejects	15		15	
5	Boiler Blow downs		8	8	
6	Cooling Tower Blow downs		50	50	Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
7	Domestic		8	8	
	Total effluent Quantity	**153.4**	**66**	**219.4**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	6.28 TPD	Sent to cement plants for co-incineration/TSDFDundigal.
2	Solvent residue	5.56 TPD	
3	Spent Carbon	242.8 Kg/day	
4	Hyflow	43.9 Kg/day	Sent to TSDF
5	Evaporation Salts	8.68 TPD	
6	Inorganic Residue	2702.9 Kg/day	
7	ETP Sludge	2.17 TPD	
8	Boiler Ash	4.77 TPD	Sent to brick manufacturers
9	Spent Solvents	148 KLD	Sent to cement plants for co-incineration.
10	Spent Mixed solvents	37 KLD	Disposed to end users
11	Stripper Distillate	3.16 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	2.49 KLPA	Sent to authorized agencies
13	Used Lead acid Batteries	24 No.s/Year	Sent to suppliers on buy back basis
14	Bio medica. waste	5 Kg/Month	Sent to authorized common biomedical treatment facility
15	Detoxified containers & bags	650 Nos / Month	Sent to authorized recyclers
16	Used PPE	15 Kgs/ Month	Sent to authorized vendor
17	E- Waste	0.2 TPA	Authorized recyclers
18	Plastic Waste	0.1 TPA	Authorized recyclers
19	Metal Scrap	8 TPA	Sale to out side agencies/ recyclers
20	Used Filters (HEPA filters, Oil Filters etc)	80 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 14	**M/s. Relixir Pharmaceuticals Pvt. Ltd., Sy.No. 279/P, Ramanthapur Village, Yeldurthy Mandal, Medak District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176593/2020 (EC/ Expansion)**

The representative of the project proponent Sri P. Surendranath Reddy; and Sri G.V. Reddy of M/s Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

EC obtained on dt. 26.02.2013 from the MoEF&CC, GoI for the existing unit.

Self-compliance Report Submitted.

CFE issued on 16.04.2013.

CHAIRMAN, SEAC

CFO issued on 04.09.2018 with validity upto 31 08.2023 and the unit operating

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept , GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 19 acres (existing 6 acres + Proposed 13 acres) out of which Green area is 6.27 acres (33%).

Nearest human habitation is Lingareddipalle Village is at 0.97 km; Nearest water body is Wadiaram Water Tank is at 1.1 km; Nearest RF Wadiaram RF is at 1.3 km.

Project Cost for expansion is Rs. 35 Crores. Budget for Environmental protection towards Capital Cost is Rs 7.63 crores and Recurring Cost is Rs.5.65 crores. Budget for CER is Rs. 35 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity-After Expansion

S. No	Product Name	Capacity	
		TPM	Kg/day
1	Albendazole	15	500
2	Bupropion	40	1333.3
3	Cilastatin Acid	4	133.3
4	Citalopram hydro bromide	5	166.7
5	Clopidogrel Bisulphate (Form-II)(PODI)	50	1666.7
6	Dabigatran EtexilateEsylate	4	133.3
7	Dapoxetine	40	1333.3
8	Diflunisal	10	333.3
9	Eletriptan Hydrobromide	24	800
10	Enrofloxacin	120	4000
11	Ensulizole	4	133.3
12	Etoricoxib	12	400
13	Favipiravir	40	1333.3
14	Fexofenadine	30	1000
15	Flurbiprofen	12	400
16	Fluconazole	60	2000
17	Irbesartan	60	2000
18	Itraconazole	15	500
19	Lacosamide	6	200
20	Leviteracetam	18	600
21	Loratadine	10	333.3
22	Moxifloxacin	12	400
23	Olmesartan Medoximil	25	833.3
24	Pantoprazole Sodium	40	1333.3
25	Posaconazole	2	66.7
26	Relaxifene Hydro chloride	10	333.3
27	Rosuvastatin Calcium	4	133.3
28	Tamsulosin Hcl	40	1333.3
29	Telmisartan	20	666.7
30	Triclabendazole	18	600
31	2-Ethoxy-1-naphthoic Acid (Naficilin Intermediate) (CLIF)	10	333.3
32	Ethyl 2-(Ethyl thio) -6,7 di fluoro 4-hydroxy quinoline 3-carboxilate (Prulifloxacin Intermediate) (FLIP)	20	666.7
33	Keto Sulphone (Etoricoxib Intermediate)	12	400
34	2-Chloro 1,3- Bis (Dimethylamino)Trimethinium Hexafluorophosphate (Etoricoxib Intermediate salt)	40	1333.3

CHAIRMAN, SEAC

35	(1S,2S)-1-amino-2,3-dihydro-1H-inden-2-ol (RAIN) (Indinavir Intermediate)	15	500
36	t-Butyl-[R*,S*-E]-(±)-7-[3-(4-fluorophenyl)1-(1-methylethyl)-1 H-indol-2-YL]-3,5-dihydroxy-6-heptenoate (Fluvastatin intermediate) (FAST)	25	833.3
37	Methyl (E, Z)-2-(2-Benzoyloxy carbonyl amino-4-thiozyl-4-(3-methyl-2-butenyloxycarbonyl)-2-Butanoic acid (Prenyl Half Ester)	20	666.7
38	Hydroxy Chloroquine (HCQ)	120	4000
39	5-Methoxy-2-[[(4-methoxy-3,5-dimethylpyridin-2-yl)methyl]thio]-1H-benzimidazole (Omeprazole Intermediate)	90	3000
40	4-[4-Chloro-1-oxobutyl]-2,2-dimethylphenyl acetic acid methyl ester (Fexofenadine HCl Intermediate)	60	2000
41	Candensartan	5	166.7
42	Didanosine	6	200
43	Duloxetine	15	500
44	Escitalopram	3.9	131.5
45	Olanzapine	3.5	116.7
46	Voriconazole	4.5	150
47	Aripiprazole	2	66.7
48	Metronidazole	6	200
49	Levofloxacin	10	333.3
50	Norfloxacin	20	666.7
51	Ofloxacin	12	400
52	Emtricitabine	19.7	657.5
53	Efavirenz	19.7	657.5
54	Darunavir	18	600
55	Validation Products	3	100
	Total Production (12 Products per Day)	**760**	**25333.3**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 3 TPH Proposed: 1 x 12 TPH	 25 m 35 m	Bag filters
2	**Thermic Fluid Heater:** Proposed: 1 x 1Lac K.Cal/hr	 15 m	Effective stack height
3	**DG Sets:** Existing: 1 x380 kVA Proposed: 1 x 320 kVA 2 x 1020 kVA	 8 m 7.5 m 25 m	Effective stack height

Process emissions contain hydrogen, hydrogen bromide, carbon dioxide and Ammonia.Hydrogen bromide and ammonia are sent to scrubber in series Sodium bromide from hydrogen bromide scrubbing, Ammonium chloride from ammonia scrubbing is sent to ETP. Carbon dioxide gasis let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	163.9		163.9
2	Washings	5		5
3	Scrubber	4		4
4	Boiler Feed	100		100
5	Cooling Tower	150	200	350
6	RO/DM Rejects	5		5
7	Domestic	25		25
8	Gardening	30		30
	Total water requirement	**482.9**	**200**	**682.9**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	178.3		178.3	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP -RO Plant. RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	5		5	
3	Scrubber	4		4	
4	RO/DM Rejects	5		5	
5	Boiler Blow downs		7.5	7.5	
6	CT Blow downs		10.5	10.5	
7	Domestic		20	20	
Total effluent Quantity		**192.3**	**38**	**230.3**	

Details of Solid Waste after Expansion:

S.No	Description	Quantity	Disposal Details
1	Organic Solid Waste	20.08 TPD	Sent to Cement Industries
2	Process Salts	5.16 TPD	Sent to TSDF/Cement Industries
3	Evaporation Salts	12.25 TPD	Sent to Cement Industries/TSDF
4	Spent Carbon & Hyflow	135.3 TPD	Sent to Cement Industries
5	Mixed Solvents	12000 TPD	Disposed to end users
6	Spent Solvents	1600 TPD	Sent to Cement Industries for Co-incineration
7	ETP Sludge	1.2 TPD	Sent to TSDF/Cement Industries
8	Used/Discarded PPE	1200 Kg/M	Sent to Authorized agencies.
9	Detoxified Polybags	300 Kg/M	Sold out to local vendors after detoxification.
10	Detoxified Drums/ containers/ Container liners	150 No's/Day	Sold out to local vendors after detoxification.
11	Discarded centrifuge/leaf filter/nutch filter cloths	10 No's/Day	Sent to TSDF for incineration
12	Used Lead acid batteries	10 No's/Annum	Sent to authorized agencies on buy back basis.
13	Ash from Boiler	18 TPD	Sent to Brick Manufacturers
14	Waste Oils	1200 Lts/Annum	Sent to Authorized agencies.

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 15	**M/s. Satyadeva Pharmaceuticals Pvt. Ltd., Plot No.19, 20, 21, 22, 23, 24, 25, 26, 27 & 28, 103 to 114, Phase II IDA Pashamylaram, Patancheru Mandal, Sangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176929/2020 (EC/ Expansion)**

The representative of the project proponent Sri T.Srinivasa Rao; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

EC obtained on dt. 09.05.2017 from the SEIAA, TS for the existing unit.

Submit copy of certified compliance report issued by the Regional Office of the MoEF&CC, GoI, Chennai, as per O.M. dt.30.05.2012 & 07.09.2017 of MoEF&CC, GoI.

CFE issued on. 82/PCB/ZO/RCP/2004-179, Date: 06.11.2004

CFO issued on 08.08.2017 by TSPCB with validity period upto 31.12.2021.

Self-compliance Report for existing CFO was submitted.

CHAIRMAN, SEAC

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 9.06 acres (existing 3.06 acres + proposed 6 acres), out of which Green area is 3.2 acres (35.32%) after expansion.

Nearest human habitation is Pashamylaram (Hamlet) is at 1.03 km; Nearest water body is Kotla cheruvu is at 0.4 km; No RF exists within 10 Km radius.

Project Cost is Rs.40 Crores. Budget for Environmental protection towards Capital Cost is Rs. 5.12 crores and Recurring Cost is Rs. 7.02 crores. Budget for CER is Rs.52 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity-After Expansion

S.No	Name of the Product	Capacity	
		TPM	Kg/Day
1	Abacavir sulfate	6.0	200
2	Alendronate Sodium	3.8	125
3	Atomoxetine HCl	1.5	50
4	Cetrizine Dihydrochloride	15.0	500
5	Citalopram HBr	37.5	1250
6	Clopidogrel Bisulphate	9.8	325
7	Darunavir Ethanolate	6.0	200
8	Emtricitabine	1.5	50
9	Escitalopram Oxalate	1.2	40
10	Esomeprazole Magnesium Dihydrate	4.5	150
11	Levetiracetam	30.0	1000
12	LevoCetrizine di-Hydrochloride	3.0	100
13	Lopinavir	2.3	75
14	Metoprolol Succinate	27.0	900
15	Risperidone	37.5	1250
16	Ritonavir Potassium	6.8	225
17	Zonisamide	2.3	75
18	1,2-dihydro-2-oxo-6-propylpyridine-4-carboxylic acid(PPC)	10.5	350
19	BDH-base	13.1	435
20	N-((N-Methyl-N-((2-Isopropyl-4-Thiazolyl)methyl)Amino)Carbonyl)-L-Valine, Lithium salt	55.2	1840
21	((5-Thiazolyl) methyl)-(4-Nitrophenyl)Carbonate)	34.5	1150
22	(2S,3S,5S)-2-amino-3-hydroxy-5-(1-tetra hydro pyrmid-2-only)-3-methyl butanoyl)amino-1,6-diphenyl hexane-S-Pyro glutamate (TEIP)	18.2	605
	Total (Worst case- 9 Products on Campaign basis)	**268**	**8930**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:**		
	Existing: 4.5 TPH,	25 m	Bagfilter
	2.5 TPH (Shall be dismantled)	21 m	Bagfilter
	2 TPH (Shall be dismantled)	20 m	Bagfilter
	Proposed: 2 x 6 TPH	30 m	Bagfilter
2	**DG Sets:**		
	Proposed: 3 x 500 kVA,	5 m	Effective stack height
	Permitted: 1 x 250 kVA (Shall be dismantled)	4 m	

CHAIRMAN, SEAC

Process emissions contain hydrogen, hydrogen chloride and carbon dioxide. Hydrogen chloride are sent to scrubber in series. Sodiumchloride from hydrogen chloridescrubbing sent to ETP. Carbon dioxide gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	90.3		90.3
2	Washings	8		8
3	Scrubber	10		10
4	Boiler Feed	45	35	80
5	Cooling Tower	145	155	300
6	RO/DM Rejects	15		15
7	Domestic	9		9
8	Gardening	8		8
	Total water requirement	**330.3**	**190**	**520.3**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	96.5		96.5	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP - RO Plant. RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	8		8	
3	Scrubber	10		10	
4	Boiler Blow downs		8	8	
5	CT Blow downs		50	50	
6	RO/DM Rejects	15		15	
7	Domestic		8	8	
Total effluent Quantity		**129.5**	**66**	**195.5**	

Details of Solid Waste:

Description	Quantity	Mode of Disposal
Ash from Boiler	9.8 TPD	Sold to Brick manufactures
Process Organic residue	9.85 TPD	Sent to TSDF/Cement Industries
Process Inorganic residue	2.6 TPD	Sent to TSDF
Solvent Residue	5.33 Kg/day	Sent to TSDF/Cement Industries
Spent Carbon	634 Kg/day	Sent to TSDF/Cement Industries
Hyflow	75 Kg/day	Sent to TSDF
Catalyst	280 Kg/day	Sent to Authorized agencies
Spent Solvents	138 KLD	Sent to Cement Industries for Co-incineration
Mixed Solvents	24 KLD	Disposed to end users
Evaporation Salts	4.88 TPD	Sent to TSDF
Stripper Distillate	4 KLD	Sent to Cement Industries for Co-incineration.
ETP Sludge	1.98 TPD	Sent to TSDF
Detoxified containers	800 Nos/ Month	After detoxification sent to Authorized agencies
Waste oil	320 LPA	Sent to Authorized Recyclers
Used batteries	20 Nos/ year	Sent to Authorized Recyclers

After detail discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC

Agenda Item No. 16	M/s. Alliancedge Business Consultancy Private Limited, Sy. No's. 524, 525 & 526, Khajapur Village, Shankarampet (R) Mandal, Medak District. - Environmental Clearance - Reg.
Proposal No.	SIA/TG/IND2/176924/2020 (EC)

The representative of the project proponent Sri Satish Kalidindi; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G O.Ms No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 7 acres, out of which Green area is 2.31 acres (33.12%).

Nearest human habitation is Kummarpalli Village@ 390 mts; Nearest water body is Khajapur cheruvu@0.5 km; Nearest RF isKhajapur@ 0.9 km from the industry.

Project Cost is Rs.32 Crores. Budget for Environmental protection towards Capital Cost is Rs. 8.74 crores and Recurring Cost is Rs.9.50 crores. Budget for CER is Rs. 65 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Quantity	
		Kg/Day	TPM
1	Losartan Potassium	500	15
2	Flurbiprofen	200	6
3	Furosemide	300	9
4	Folic acid	500	15
5	Trazadone Hydrochloride	60	1.8
6	Ticagrelor	200	6
7	Rivaroxaban	50	1.5
8	Apixaban	150	4.5
9	Mebeverin	500	15
10	Drotaverin	50	1.5
11	Rosuvastatin	60	1.8
12	Azithromycin	200	6
13	Dapagliflozin	75	2.25
14	Lopinavir	500	15
15	Ritonavir	90	2.7
16	Darunavir	300	9
17	Atazanavir Sulphate	60	1.8
18	RaltegravirPotassium	300	9
19	Sitagliptin	75	2.25
20	Empagliflozin	300	9
21	Diacerein	50	1.5
22	Enzalutamide	75	2.25
23	Pazopanib	150	4.5
24	Axitinib	60	1.8
25	Ibrutinib	50	1.5
26	Abiraterone	300	9
27	Metformin	3950	118.5
28	R&D and Validation Products	5	0.15
	Total Worst Case 15 Products	8350	250.5

CHAIRMAN, SEAC

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 10 TPH 2 x 6 TPH* (1 x 6 TPH shall be kept as standby)	35 m 30 m	Bag filter Bag filter
2	**DG Sets:** Proposed. 2 x 1010 kVA & 2 x 500 kVA	10 meach	Effective stack height
3	**Thermic Fluid Heater** Proposed: 2 x 2 Lakh K.cal/hr	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, hydrogen bromide, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Ammonia, hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	191		191
2	Washings	10		10
3	Scrubber	12		12
4	R & D	2		2
5	Boiler Feed	50	40	90
6	Cooling Tower	40	250	290
7	RO/DM Plant	15		15
8	Domestic	25		25
9	Gardening	15		15
	Total	**360**	**290**	**650**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	208		208	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP -RO Plant. RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD
2	Washings	10		10	
3	R & D		2	2	
4	Scrubber Effluent	12		12	
5	RO/DM rejects	15		15	
6	Boiler Blow downs		10	10	
7	Cooling Tower Blow downs		40	40	
8	Domestic		20	20	
	Total effluent Quantity	**245**	**72**	**317**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Treatment/Disposal
1	Ash from Boiler	7.8 TPD	Sold to Brick manufactures and cement plants
2	Organic residue	9.76 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	6.14 TPD	
4	Spent Solvent	56.3 KLD	Sent to Cement Plants for Co-incineration
5	Mixed Solvent	6.3 KLD	Dispose to end users
6	Stripper Distillate	4.6 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	760Kg/day	

CHAIRMAN, SEAC

8	Inorganic Residue	1.2 TPD	Sent to TSDF
9	Catalyst	272 Kg/day	Sent to TSDF
10	Hyflow	120.8 Kg/day	Sent to TSDF
11	Evaporation salts	10.8 TPD	Sent to TSDF
12	ETP Sludge	3.2 TPD	Sent to TSDF/ Cement plants for co-incineration
13	Detoxified containers	700 Nos/Yr	Sold to authorized vendors
14	Waste oil	5 KL/A	Sent to Authorized Recyclers
15	Used batteries	65 Nos/Yr	Sent to Authorized Recyclers

The SEAC noted from the google map that human habitation is at a distance of 390 mtr. Hence, the project is recommended for rejection.

Agenda Item No. 17	**M/s. Swathi Industries., Sy. No. 228, 229, Nawabpet Village, Shivampet Mandal, Medak District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176907/2020 (EC/ Expansion)**

The representative of the project proponent Sri D. Venkateshwarlu and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the existing products are inorganic chemicals and proposed for establishment of API - Bulk Drugs & Drug Intermediates under expansion.

CFO obtained order dt. 05.10.2018 for Aluminium Sulphate 32 TPD (Ferric & Non-Ferric) valid upto 31.03.2023.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 2.3 acres, out of which Green area is 0.76 acres (33 %).

Nearest human habitation is Nawabpet Village is at 0.77 km; Nearest water body is Nawabpet Cheruvu is 0.62 km; Nearest RF is Nawabpet @ 0.15 km from the industry.

Project Cost is Rs. 6 Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.27 crores and Recurring Cost is Rs.1.40 crores. Budget for CER is Rs. 6 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No.	Product Name	Capacity (TPD)
1	Aluminium Sulphate (Alum)	320
2	Dry HCl Gas	3.3
3	Iso Propyl Alcohol HCl	3.3
4	Methanolic HCl	3.3
5	Ethanolic HCl	3.3
6	Tri Ethyl Amine HCl	5.0
7	Di Ethyl Amine HCl	4.2
8	Di Methyl Amine HCl	2.5
9	Mono Methyl Amine HCl	1.7
10	Mono Ethyl Amine HCl	1.7
11	Ammonium Chloride	3.3
12	Trimethyl Amine HCl	3.3
13	Para Nitro Benzyl Chloride	1.7
14	Para Nitro Benzyl Bromide	

CHAIRMAN, SEAC

15	Gemcitabine Hydrochloride	0.01
	Total	**358.9**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 3 TPH	10 m	Bag filter
2	**DG Sets:** Proposed: 1 x 125 kVA	2.5 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride. Ammonia, hydrogen chloride are sent to scrubber in series. Sodium chloride from hydrogen chloride, ammonium chloride from ammonia scrubbing sent to ETP. Hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	1		1
2	Washings	3		3
3	Scrubber	2		2
4	Boiler Feed	8	3	11
5	Cooling Tower	6	16	22
6	RO/DM Plant	2.5		2.5
7	Domestic	4		4
8	Gardening	5		5
	Total	**31.5**	**19**	**50.5**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	1.1		1.1	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP - RO Plant RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	3		3	
3	Scrubber Effluent	2		2	
4	RO/DM rejects	2.5		2.5	
5	Boiler Blow downs		1.5	1.5	
6	Cooling Tower Blow downs		6	6	
7	Domestic		3.8	3.8	
	Total effluent Quantity	**8.6**	**11.3**	**19.9**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	5.6 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	0.02 TPD	
3	Spent Carbon	5 Kg/day	
4	Evaporation Salts	0.4 TPD	
5	Inorganic Residue	3.8 Kg/day	
6	ETP Sludge	0.22 TPD	
7	Boiler Ash	4.6 TPD	Sent to brick manufacturers
8	Spent Solvents	4.7 KLD	Sent to cement plants for co-incineration.
9	Spent Mixed solvents	0.5 KLD	Disposed to end users
10	Stripper Distillate	0.04 KLD	Sent to cement plants for co-

CHAIRMAN, SEAC

			incineration/TSDF, Dundigal
11	Waste oils & Grease	0.21 KLPA	Sent to authorized agencies
12	Used Lead acid Batteries	2 No. s/year	Sent to suppliers on buy back basis
13	Bio medical waste	5 Kg/Month	Sent to authorized common biomedical treatment facility
14	Detoxified containers & bags	650 Nos / Month	Sent to authorized recyclers
15	Used PPE	15 Kgs/ Month	Sent to authorized vendor
16	E- Waste	0.2 TPA	Authorized recyclers
17	Plastic Waste	0.1 TPA	Authorized recyclers
18	Metal Scrap	8 TPA	Sale to outside agencies/ recyclers
19	Used Filters (HEPA filters, Oil Filters etc)	80 Nos /year	Sent to TSDF
20	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

The SEAC noted that the proponent is manufacturing inorganic chemicals and obtained CFO dt.05.10.2018 valid upto 31.03.2023 and proposed to manufacture additional products of APIs in the expansion. Hence, after detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 18	**M/s. Pacificspot Naturals LLP., Sy. No. 290 (Part), 291 (Part), Jagdevpur village, Jagdevpur mandal, Siddipet District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176804/2020 (EC)**

The representative of the project proponent Sri P.V.R Sekhar. and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 5.38 Acres, out of which Green area is 1.8 acres (33%).

Nearest human habitation is Indranagar village is at 1.6 km; Nearest water body is a Tank near Dulapuram is at 1.01 km; Nearest RF is Daulapuram is at 0.4 km from the industry.

Project Cost is Rs. 25 Crores. Budget for Environmental protection towards Capital Cost is Rs. 7.25 crores and Recurring Cost is Rs.7.02 crores. Budget for CER is Rs.50 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Capacity	
		Kg/Day	TPM
1	Cis-Bromo Benzoate	1000	30
2	2,3-Dimethyl-4--nitropyridine-N-oxide	750	22.5
3	Lansoprazole	300	9
4	Rabeprazole Sodium	300	9
5	Omeprazole	300	9
6	3,5-Dimethyl-4-nitropyridine-N-oxide	500	15
7	Cis-[[2-(2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-yl-methyl)-1,3-dioxolan-4-yl] methyl] methane sulfonate	500	15
8	Cis-Tosylate	500	15

CHAIRMAN, SEAC

9	Pantoprazole Sodium Sesquihydrate	300	9
10	Itraconazole	200	6
11	Esomeprazole Magnesium Trihydrate	200	6
12	Ketoconazole	200	6
13	1- [2-(2-Hydroxy ethoxy) Ethyl] Piperazine	200	6
14	2-Hydroxy methyl-3-methyl-4-(3-methoxy propoxy) pyridine. Hydrochloride	300	9
15	2-Chloromethyl-3-methyl-4-(3-methoxy propoxy) Pyridine. Hydrochloride	600	18
16	2- [[(4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole	450	13.5
17	2-(Hydroxy methyl)-3-methyl-4-(2,2,2-trifluoroethoxy) Pyridine. Hydrochloride	450	13.5
18	2-(Chloro methyl)-3-methyl-4-(2,2,2-trifluoroethoxy) pyridine Hydrochloride	400	12
19	2- [[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyrdinyl] methyl] sulfonyl]-1H-benzimidazole	400	12
20	2-[[[3-methyl-4-(nitro)-2-pyridinyl] methyl] sulfonyl]-1H-benzimidazole	400	12
21	4- [4-[4-(4-Hydroxy Phenyl) -1-Piperazinyl] Phenyl] 2,4 dihydro-2-(1-Methyl Propyl)-3H-1,2,4-Triazole-3-One	400	12
Total (Worst Case 8 Product on Campaign Product)		**4750**	**142.5**

By Products

S. No	Name of Product	Stage	Name of By Product	Quantity (Kg/Day)
1	Cis - Bromo Benzoate	II	Hydrobromic Acid (28%)	951.5
2	2, 3-Di Methyl-4-Nitro pyridine-1-Oxide	I	Dilute Acetic Acid (20%)	1275
			Ammonium Sulfate	1919.4
3	Lansoprazole	I	Sodium Acetate	100.3
			Spent Acetic Acid	100
4	Rabeprazole Sodium	II	Sodium Acetate	95.2
			Spent Acetic acid (20%)	348.2
5	3, 5-Di Methyl-4-Nitro pyridine-1-Oxide	I	Dilute Acetic Acid (20%)	775
			Ammonium Sulfate	1279.6
6	Omeprazole	I	Ammonium persulphate Dimethyl sulphate salt	132
		II	Ammonium persulphate Dimethyl sulphate salt	262.3
7	Cis-[[2-(2,4-Dichloro phenyl)-2-(1H-1,2,4-triazol-1-yl-methyl)-1,3-dioxolan-4-yl] methyl] methane sulfonate	II	Triethylamine HCl	168.5
8	Pantoprazole Sodium Sesquihydrate	II	Phosphoric acid	125.3
9	Esomeprazole Magnesium Trihydrate	I	Ammonium persulphate Dimethyl sulphate salt	413
10	Ketoconazole	II	Triethylamine HCl	74
11	1-[2-2Hydoxy ethoxy ethyl] piperazine	I	Piperazine HCl	140.7
12	2-Hydroxy methyl-3-methyl-4-(3-methoxy propoxy) pyridine. HCl	II	Sodium Acetate	99.4
			Spent Acetic acid (20%)	363.6
13	2-Chloromethyl-3-methyl-4-(3-methoxypropoxy) pyridine HCl	II	Sodium Acetate	198.9
			Spent Acetic acid (20%)	145.5
14	2- [[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole	II	Sodium Acetate	119.6
			Spent Acetic acid (20%)	437.6
15	2-(Chloro methyl)-3-methyl-4-(2,2,2-trifluoroethoxy) pyridine HCl	I	Sodium Acetate	127.8
			Spent Acetic Acid	120

CHAIRMAN, SEAC

16	2-[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl]methyl] sulfanyl]-1H-benzimidazole	1	Sodium Acetate	120.9
			Spent Acetic Acid	300

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 8 TPH	30 m	Bag filter
2	**DG Sets:** Proposed. 2 x 1010 kVA and 2 x 500 kVA	10 meach	Effective stack height
3	**Thermic fluid heater:** 2 x 2 Lakh Kcal	30 m	Effective stack height

Process emissions contain hydrogen, hydrogen chloride, hydrogen bromide, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	66.6		66.6
2	Washings	5		5
3	Scrubber	1	5	6
4	R & D	2		2
5	Boiler Feed	42		42
6	Cooling Tower	70	106	176
7	RO/DM Plant	10		10
8	Domestic	9		9
9	Gardening	2	8	2
	Total	**207.6**	**119**	**326.6**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	71.9		71.9	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	5		5	
3	R & D		1	1	
4	Scrubber Effluent	7		7	
5	RO/DM rejects	10		10	
6	Boiler Blow downs		6	6	
7	Cooling Tower Blow downs		20	20	
8	Domestic		8	8	
	Total effluent Quantity	**93.9**	**35**	**128.9**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Treatment/Disposal
1	Ash from Boiler	18 TPD	Sold to Brick manufactures and cement plants
2	Organic residue	3.37 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	2.44 TPD	
4	Spent Solvent	54.2 KLD	Sent to Cement Industries for Co-incineration.
5	Mixed Solvent	6 KLD	Disposed to earthset

CHAIRMAN, SEAC

6	Stripper Distillate	2.16 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	198 Kg/day	
8	Inorganic Residue	1.76 TPD	Sent to TSDF
9	Catalyst	25 Kg/day	Sent to TSDF
10	Hyflow	166.8 Kg/day	Sent to TSDF
11	Evaporation salts	5.86 TPD	Sent to TSDF
12	ETP Sludge	0.43 TPD	Sent to TSDF/ Cement plants for co-incineration
13	Detoxified containers	10000 No. s/Yr	Sold to authorized vendors
14	Waste oil	10 KLPA	Sent to Authorized Recyclers
15	Used batteries	300 No. s/Yr	Sent to Authorized Recyclers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 19	**M/s. Teepharma Systems India Pvt. Ltd., Sy. No. 291/part, Jagdevpur Village, Jagdevpur Mandal, Siddipet District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176751/2020 (EC)**

The representative of the project proponent Sri P.V.R. Sekhar; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 5.38 Acres, out of which Green area is 1.8 acres (33%).

Nearest human habitation is Indranagar village@ 1.47 km; Nearest water body is Water Tank near Dulapuram@ 1.15km; Nearest RF is Daulapuram@ 0.4 km from the industry.

Project Cost is Rs. 25 Crores. Budget for Environmental protection towards Capital Cost is Rs. 6.10 crores and Recurring Cost is Rs.5.20 crores. Budget for CER is Rs.78 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Capacity	
		Kg/day	TPM
1	Apixaban	25	0.75
2	Aripiprazole	25	0.75
3	Brivaracetam	50	1.5
4	Dex Rabeprazole Sodium	20	0.6
5	Dex-Lansoprazole	25	0.75
6	Diltiazem Hydrochloride	100	3
7	Doxazosin Mesylate	10	0.3
8	Duloxetine Hydrochloride	25	0.75
9	Eletriptan Hydrobromide	25	0.75
10	Esomeprazole Magnesium Dihydrate	100	3
11	Ilaprazole	25	0.75
12	Itraconazole	100	3
13	Ivabradine Hydrochloride	25	0.75
14	Lesinuard	25	0.75
15	Levetiracetam	250	7.5

CHAIRMAN, SEAC

16	Lurasidone Hydrochloride	25	0.75
17	Olanzapine	25	0.75
18	Omeprazole	25	0.75
19	Oxiracetam	50	1.5
20	Pantaprazole Sodium	300	9
21	Quetiapine Hemifumarate	300	9
22	Rabeprazole Sodium	50	1.5
23	Rosuvastatin Calcium	50	1.5
24	Sertraline Hydrochloride	250	7.5
25	Sitagliptin Phosphate	50	1.5
26	Tamsulosin Hydrochloride	10	0.3
27	Tenatoprazole	100	3
28	Topiramate	200	6
29	Vilazodone Hydrochloride	50	1.5
30	Vildagliptin	25	0.75
31	Ranolazine	50	1.5
32	Valsartan	250	7.5
33	Pioglitazone Hydrochloride	20	0.6
34	Levofloxacin Hemihydrate	50	1.5
35	Levofloxacin	50	1.5
36	Irbesartan	200	6
37	Famciclovir	50	1.5
38	Ciprofloxacin	100	3
39	Ofloxacin	25	0.75
40	Norfloxacin	50	1.5
41	Telmisartan	50	1.5
42	Losartan Potassium	50	1.5
43	Olmesartan	50	1.5
44	Atorvastin Calcium	25	0.75
45	Acyclovir	25	0.75
46	Lopinavir	150	4.5
47	Ritonavir	50	1.5
48	Carbamazepine (Pure)	100	3
49	Aspirin	1500	45
	Total - Worst Case 12 Products	**3700**	**111.0**

By Products

S. No	Name of Product	Stage	Name of By Product	Quantity (Kg/day)
1	Esomeprazole Magnesium Trihydrate	I	Ammonium persulphate Dimethyl sulphate salt	1652
2	Ilaprazole	II	Sodium Acetate	13.7
			Spent Acetic Acid (20%)	502
3	Omeprazole	II	Dimethyl sulfide ammonium persulfate	15
		III	Dimethyl sulfide ammonium persulfate	27.8
4	Pantaprazole Sodium Sesquihydrate	II	Phosphoric acid	125
5	Quetiapine Hemi fumarate	III	Phosphoric acid (20%)	7839
6	Dex -Rabeprazole Sodium	II	Sodium Acetate	9
			Spent Acetic acid (20%)	32.1
7	Dex-Lansoprazole	II	Sodium Acetate	12
			Spent Acetic Acid	50
8	Tenatoprazole	I	Dimethyl sulfide ammonium persulfate	40
		II	Dimethyl sulfide ammonium persulfate	127.4
9			Dil HCl (20%) from Scrubbers	1263.4

CHAIRMAN, SEAC

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 1 x 6 TPH (standby)	 35 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA 1 x 500 kVA	10 m each	Effective stack height
3	**Thermic fluid heater:** Proposed: 1 x 2 Lack.cal/hr	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, hydrogen bromide, hydrogen fluoride, sulfur dioxide, carbon dioxide andnitrogen. Ammonia, hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	65.7		65.7
2	Washings	5		5
3	Scrubber	5		5
4	R & D	2		2
5	Boiler Feed	50	15	65
6	Cooling Tower	40	85	125
7	RO/DM Plant	5		5
8	Domestic	8		8
9	Gardening	8		8
	Total	**188.7**	**100**	**288.7**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	64.8		64.8	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP - RO Plant. RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	5		5	
3	R & D		2	2	
4	Scrubber Effluent	5		5	
5	RO/DM rejects	5		5	
6	Boiler Blow downs		5	5	
7	Cooling Tower Blow downs		15	15	
8	Domestic		7.5	7.5	
	Total effluent Quantity	**79.8**	**29.5**	**109.3**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Process Organic residue	2.78 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	2.05 TPD	
3	Spent Carbon	179.3 Kg/day	
4	Hyflow	88.3 Kg/day	Sent to TSDF
5	Evaporation Salts	3.95 TPD	
6	Inorganic Residue	408.1 Kg/day	
7	ETP Sludge	1.17 TPD	

CHAIRMAN, SEAC

8	Boiler Ash	6.8 TPD	Sent to brick manufacturers
9	Spent Solvents	40 KLD	Sent to cement plants for co-incineration.
10	Spent Mixed solvents	14.3 KLD	Disposed to end users
11	Stripper Distillate	2 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	2.5 KLPA	Sent to authorized agencies
13	Used Lead acid Batteries	20 No. s/year	Sent to suppliers on buy back basis
14	Bio medical waste	5 Kg/Month	Sent to authorized common biomedical treatment facility
15	Detoxified containers & bags	650 Nos / Month	Sent to authorized recyclers
16	Used PPE	15 Kgs/ Month	Sent to authorized vendor
17	E- Waste	0.2 TPA	Authorized recyclers
18	Plastic Waste	0.1 TPA	Authorized recyclers
19	Metal Scrap	8 TPA	Sale to out side agencies/ recyclers
20	Used Filters (HEPA filters, OF Filters etc)	80 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 20	**M/s. Vaschem Organics Pvt. Ltd., Sy. No's. 287/Part, 288/Part, Jagdevpur Village, Jagdevpur Mandal, Siddipet District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176728/2020 (EC)**

The representative of the project proponent Sri Mohammed Faiz; and Sri G V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O Ms. No. 95, dt 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.01.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 3 Acres 39 Guntas, out of which Green area is 1.15 acres (33.9%).

Nearest human habitation is Indranagar Village@ 1.95 km; Nearest water body is Water Tank near Dulapuram is at 1.0 km; Nearest RF is Daulapuram @ 0.4 km from the industry.

Project Cost is Rs.12 Crores. Budget for Environmental protection towards Capital Cost is Rs. 4.89 crores and Recurring Cost is Rs.5.22 crores. Budget for CER is Rs.24 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S. No	Name of Product	Capacity	
		TPM	Kg/day
1	Etodolac	15	500
2	Lamivudine	6	200
3	Losartan Potassium	3	100
4	Carbidopa	3	100
5	Phenylpherin HCl	6	200
6	Telmisartan	8	250
7	Rabeprazole Sodium	3	

CHAIRMAN, SEAC

8	Sitagliptin Phosphate	24	800
9	Lloperidone	6	200
10	Zileuton	6	200
11	Gemifloxacin Mesylate	11	350
12	Mirabegron	6	200
13	Finasteride	3	100
14	Naftine Hydrochloride	2	80
15	Bicalutamide	2	50
16	Gemcitabin HCL	3	100
17	Tolvaptan	3	100
18	Sumatriptan Succinate	2	50
19	Pregabaline	4	120
20	Montulakast sodium	8	250
21	Moxifloxacin Hydrochloride	9	300
22	Prasugrel Hydrochloride	8	250
23	Olmesartan Medoxomil	18	600
24	Rosuvastatin Calcium	3	100
25	Terbinafine Hydrochloride	8	250
26	Atorvastatin Calcium	6	200
27	Pantoprazole Sodium	8	250
28	Sildenafil Citrate	12	400
29	Voriconazole	8	250
30	Metformin HCl	15	500
Total – Worst Case 8 Products on Campaign Basis		**111**	**3700**
R & D		**1.5**	**50**
Grand Total		**112.5**	**3750**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 1 x 5 TPH (standby)	 35 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 2 X 1010 kVA and 2 X 500 kVA	10 meach	Effective stack height
3	**Thermic fluid heater:** Proposed: 1 x 4 Lakh Kcal, 2 x 2 Lakh Kcal	30 m	Effective stack height

Process emissions contain hydrogen, hydrogen chloride, hydrogen sulfide, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Hydrogen chloride, hydrogen sulfide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium sulfide from hydrogen sulfide, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	127.2		127.2
2	Washings	10		10
3	Scrubber	10		10
4	R & D	3		3
5	Boiler Feed	75	15	90
6	Cooling Tower	120	225	345
7	RO/DM Plant	20		20
8	Domestic	15		15
9	Gardening	13		13
	Total	**393**	**240**	**633.2**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	135		135	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP -RO Plant. RO Rejects to MEE System and RO permeate to reuse. Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	10		10	
3	R & D		3	3	
4	Scrubber Effluent	10		10	
5	RO/DM rejects	20		20	
6	Boiler Blow downs		15	15	
7	Cooling Tower Blow downs		50	50	
8	Domestic		13	13	
	Total effluent Quantity	**175**	**81**	**256**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Treatment/Disposal
1	Ash from Boiler	5.2 TPD	Sold to Brick manufactures and cement plants
2	Organic residue	8.35 TPD	Sent to TSDF/Cement Plants for Co-incineration
3	Solvent Residue	5.72 TPD	Sent to TSDF/Cement Industries
4	Spent Solvent	144.6 KLD	Disposed to Cement plants for co-incineration
5	Mixed Solvent	16.1 KLD	Disposed to end users
6	Stripper Distillate	6 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	522 Kg/day	
8	Hyflow	72.7 Kg/day	Sent to TSDF
9	Catalyst	214.5 Kg/day	Sent to TSDF
10	Inorganic Residue	2 TPD	Sent to TSDF
11	Evaporation salts	8.4 TPD	Sent to TSDF
12	Insulation waste	2 TPD	Sent to TSDF
13	ETP Sludge	2 TPD	Sent to TSDF/ Cement plants for co-incineration
14	Detoxified containers	10000 No. s/Yr	Sold to authorized vendors
15	PVC waste	50 Kg/Day	Sold to authorized vendors
16	Waste oil	18 Kg/Day	Sent to Authorized Recyclers
17	Used batteries	600 No. s/Yr	Sent to Authorized Recyclers
18	E waste	1 TPA	Sent to Authorized Recyclers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 21	**M/s. Erythro Pharma Pvt. Ltd., Sy. No. 13, IDA, Gaddapotharam Village, Jinnaram Mandal, Sangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176664/2020 (EC)**

The representative of the project proponent Sri Rajashekar Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

EC obtained on dt. 26.04.2018 from SEIAA, TS for the existing unit.

CFE issued on 20.03.2015 & CFO issued on 03.02.2017 with validity upto 28.02.2022and the unit operating. Self-compliance Report Submitted.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

CHAIRMAN, SEAC

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 3.99 acres, out of which Green area is 1.59 acres (39.8%).

Nearest human habitation is Gaddapotharam village is at 0.46 km; Nearest water body is Gaddapotharam cheruvu is at 0.25 km; Nearest RF is Kistaipalli is at 0.3 km from the industry.

Project Cost for expansion is Rs. 25 Crores. Budget for Environmental protection towards Capital Cost is Rs. 6.10 crores and Recurring Cost is Rs.6.35 crores. Budget for CER is Rs.32 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity-After Expansion

S.No.	Product Name	Capacity	
		Kg/ Day	TPM
1	Atorvastatin	133.3	4
2	Azithromycin	266.7	8
3	Diclofenac Sodium	800	24
4	Gabapentine	400	12
5	Losartan Potassium	266.7	8
6	Lopinavir	133.3	4
7	Meropenam	100	3
8	Olmesartan Medoximil	266.7	8
9	Oxcarbamazepine	100	3
10	Ritonavir	266.7	8
11	Telmisartan	800	24
12	Valsartan	133.3	4
13	Acramatic Cyclic Cabonol (Melitracen Intermediate)	100	3
14	Chloro Pyridyl Pyrazinyl Imidol (Zopiclone Intermediate)	1000	30
15	Cyclic Tertiary Carbinol (Flupentixol Intermediate)	266.7	8
16	Hydroxy Imidazo Amide (Zolpidem Intermediate)	800	24
17	Thio Amide (Metolazone Intermediate)	1000	30
18	Thio Morpholine Propyl Chloride (Tiemonium Methyl Sulphate Intermediate)	200	6
19	Validation Product	100	3
	Total - worst case 6 products	**4800**	**144**

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 0.5 TPH (1 x 0.5 shall be Standby) Proposed: 1 x 5 TPH	10 m 30 m	Bag filter Bag filter
2	**DG Sets:** Existing: 1 x 320 kVA Proposed: 2 x 500 kVA	8 m 10 m	Effective stack height
3	**Thermic fluid heater:** Proposed. 2 Lakh K.cal/hr	15 m	Effective stack height

Process emissions contain hydrogen, oxygen, carbon dioxide and nitrogen. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

CHAIRMAN, SEAC

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	37.6		37.6
2	Washings	2		2
3	Scrubber	2		2
4	Boiler Feed	45		45
5	Cooling Tower	60	40	100
6	RO/DM Rejects	4		4
7	Domestic	5		5
8	Gardening	15		15
	Total water requirement	**170.6**	**40**	**210.6**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	42.8		42.8	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP -RO Plant. RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	2		2	
3	Scrubber	2		2	
4	Boiler Blow downs		2.5	2.5	
5	CT Blow downs		3.5	3.5	
6	RO/DM Rejects		4	4	
7	Domestic		4	4	
Total effluent Quantity		**46.8**	**14**	**60.8**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Process Organic residue	142.38 TPM	Sent to TDSF/Cement Plants for Co-incineration
2	Solvent residue	16.83 TPM	
3	Spent Carbon	15.6 TPM	
4	Inorganic Residue	129.5 TPM	Sent to TSDF
5	Evaporation salts	107 TPM	Sent to TSDF
6	ETP Sludge	33.26 TPM	Sent to TSDF
7	Containers & container liners of hazardous waste and chemicals HDPE drums, pipes, bags	500 Nos/Month	Sold to authorized vendors
8	Used oil	3000 LPA	Sent to agencies authorized by TSPCB
9	Used lead batteries	10 No. s/Yr	
10	Ash from Boiler	1.7 TPD	Sold to brick manufactures
11	Spent Solvents	53.43 KLD	Disposed to Cement Plants for Co-incineration
12	Spent Mixed Solvents	9.42 KLD	Disposed to end users

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 22	**M/s. Aryan Pharmachem, Sy. Nos. 527, 528, 529 Khajapur Village, Shankerampet Mandal, Medak District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/193357/2021 (EC)**

The representative of the project proponent Sri Guruvaiah, and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

CHAIRMAN, SEAC

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 9 acres, out of which Green area is 3 acres (33%).

Nearest human habitation is Kumarpalli Village is at 720 mts; Nearest water body is Khajapur cheruvu is at 700 mts; Nearest RF is Khajapur is at 0.92 km from the industry.

Project Cost is Rs. 45 Crores. Budget for Environmental protection towards Capital Cost is Rs. 10.83 crores and Recurring Cost is Rs.14.26 crores. Budget for CER is Rs.94 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Manufacturing Capacity

S.No	Name of Product	Quantity	
		Kg/Day	TPM
1	Losartan Potassium	500	15
2	Telmisartan	500	15
3	Norfloxacin	500	15
4	Ofloxacin	300	9
5	Levofloxacin	300	9
6	Ritonavir	200	6
7	Levetiracetam	250	7.5
8	Carbamazepine	200	6
9	Valsartan	500	15
10	Olmesartan	500	15
11	Atorvastin Calcium	500	15
12	Acyclovir	500	15
13	Lopinavir	500	15
14	Abacavir Sulphate	25	0.8
15	Clopidogrel Bisulphate	115	3.5
16	Cyclobenzaprine HCl	100	3
17	Donepezil HCl	42	1.26
18	Domperidone	600	18
19	Loratadine	400	12
20	Itraconazole	40	1.2
21	Gabapentin	1000	30
22	2-(1-(2-amino-2-oxoethyl) cyclohexyl) acetic acid	2000	60
23	Pregabalin	200	6
24	Quetiapine Hemifumarate	300	9
25	Irbesartan	200	6
26	Citalopram HBr	50	1.5
27	Celecoxib	100	3
28	Sertraline Hydrochloride	250	7.5
29	Nevirapine	150	4.5
30	Darunavir	20	0.6
31	Efavirenz	300	9
32	Remdesivir	100	3
33	Hydroxy Chloroquine Sulfate	80	2.4
34	Escitalopram Oxalate	600	18
35	Lamotrigine	200	6
36	Enalapril maleate	500	15
37	Ciprofloxacin	2000	60
38	Dasatinib	20	0.6
39	Imatinib Mesylate	100	3
40	Gemcitabine HCl	500	

CHAIRMAN, SEAC

41	Labetalol	500	15
42	Ticagrelor	500	15
43	Amoxicillin	33	1
44	Azithromycin	33	1
45	Ceftriaxone	75	2.3
46	Cefixime	500	15
47	Cefalexine	500	15
48	Metformin Hcl	500	15
49	Clindamycin Palmiate HCl	170	5.1
50	Meropenem intermediate	500	15 0
51	Paracetamol	500	15
52	11-Piperazino Dibenzo [b,f] [1,4] Thiazepine Hydrochloride	250	7.5
53	2-[[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole	400	12
54	2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl]methyl] sulfanyl]-1H-benzimidazole	400	12
55	2[[(3-Methyl-4-(nitro)-2-pyridinyl]methyl]sulfanyl]-1H-benzimidazole	25	0 8
56	2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl]thio}-5-methoxy-1 H-benzimidazole	100	3
57	Aspirin	1500	45
58	Oxcarbazepine	250	7.5
59	Clarythromycine	200	6
60	Axitinib	60	1 8
61	Pazopanib Hydrochloride	150	4.5
62	Raltegravir Potassium	300	9
63	Mebeverine Hydrochloride	300	9
64	Flurbiprofen	150	4.5
65	Ibrutinib	50	1.5
66	Rosuvastatin Calcium	50	1.5
67	Rivaroxaban	50	1.5
68	R&D and Validation Products	2	0.06
	Total -Worst Case 12 Products	**10700**	**321**

By Products

S.No	Name of Product	Stage	Name of By Product	Quantity (Kg/day)
1	Acyclovir	I	Acetic acid	416.3
		II	Acetic anhydride	299.5
2	Quetiapine Hemifumarate	III	Phosphoric acid (20%)	6271
3	Hydroxy Chloroquine Sulfate	I	Phosphoric acid	54
4	Amoxicillin	III	Trimethylsilanol	8.1
			Methyl acetoacetate	10.5
			Pivalic acid	9.2
5	Cefixime	I	Tri phenyl phosphine oxide	336
		II	Phenyl Acetic Acid	140.6
		III	3-mercapto benzothiazole	184.3
6	Cefalexine	III	Ethyl aceto acetate	168.6
			Pivalic acid	147.7
7	Paracetamol	I	Acetic acid	223.2
8	11-Piperazino Dibenzo [b, f] [1, 4] Thiazepine. Hydrochloride	IV	Piperazine.HCl	92.4
		III	Polyphosphoric acid	500
9	2- [[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole	II	Sodium Acetate	114.3
			Spent Acetic Acid	83.7
10	2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl] methyl] sulfanyl]-1H-benzimidazole	I	Spent Acetic Acid	300
			Sodium Acetate	121
11	2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl] thio}-5-methoxy-	I	Ammonium persulphate Dimethyl sulphate salt	155.9

CHAIRMAN, SEAC

	1H-benzimidazole			
12	Flurbiprofen	III	Butanol	46.9
13			Dil HCl (20%) from Scrubbers	2066.1

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (m)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 2 x 5 TPH	 35 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 2 x 500 kVA	10 meach	Effective stack height
3	**Thermic fluid heater:** 2 x 2 Lakh Kcal	30 m	Effective stack height

Process emissions contain ammonia, hydrogen, hydrogen chloride, hydrogen fluoride, sulfur dioxide, carbon dioxide, nitrogen and oxygen. Ammonia, hydrogen chloride, hydrogen flouride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium flouride from hydrogen flouride, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	187		187
2	Washings	8		8
3	Scrubber	5		5
4	Boiler Feed	70	45	115
5	Cooling Tower	100	270	370
6	RO/DM Plant	25		25
7	Domestic	10		10
8	Gardening	10		10
	Total	**415**	**315**	**730**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	202		202	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	8		8	
3	Scrubber Effluent	5		5	
4	RO/DM rejects	25		25	
5	Boiler Blow downs		12	12	
6	Cooling Tower Blow downs		62	62	
7	Domestic		9	9	
	Total effluent Quantity	**240**	**83**	**323**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Process Organic residue	12.22 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	5.87 TPD	
3	Spent Carbon	599 Kg/day	
4	Flyflow	183.2 Kg/day	Sent to TSDF
5	Evaporation Salts	12.67 TPD	

CHAIRMAN, SEAC

6	Catalyst	230.2 Kg/day	
7	Inorganic Residue	912.1 Kg/day	
8	ETP Sludge	3.75 TPD	
9	Boiler Ash:	3.55 TPD	Sent to brick manufacturers
10	Spent Solvents	182.3 KLD	Sent to cement plants for co-incineration
11	Spent Mixed solvents	45.6 KLD	Disposed to end users
12	Stripper Distillate	5.73 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
13	Waste oils & Grease	5 KLPA	Sent to authorized agencies
14	Used Lead acid Batteries	35 Nos/year	Sent to suppliers on buy back basis
15	Bio medical waste	6 Kg/month	Sent to authorized common biomedical treatment facility
16	Detoxified containers & bags	900 Nos /Month	Sent to authorized recyclers
17	Used PPE	20 Kgs/ Month	Sent to authorized vendor
18	E- Waste	0.2 TPA	Authorized recyclers
19	Plastic Waste	0.1 TPA	Authorized recyclers
20	Metal Scrap	10 TPM	Sale to outside agencies/ recyclers
21	Used Filters (HEPA filters. Oil Filters)	85 Nos /year	Sent to TSDF
22	Used / Discarded RO Membranes	0.2 TPA	Sent to TSDF

After detail discussions. the SEAC recommended the project for issue of EC.

Agenda Item No. 23	**M/s. Pavani Cellulose Pvt. Ltd., Sy. Nos.: Sy. Nos. 490/1, 491/A, 491/A/1 & 492/RU, Polepalli Village, Jadcherla Mandal, Mahabubnagar District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/175895/2020 (EC)**

The representative of the project proponent Sri K. Jagadeeshwar Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O 1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is **25,617.70 Sq.m (6.33 Acres)**, out of which Green area is 8,772.39Sqm (34.24 %).

Nearest human habitation is Polepalli (V) is at 1.14 km: Nearest water body is Water body near by Polepalli is at 1.53 km; Nearest RF is Uddandapur RF is at 6.90 km from the industry.

Proposed Project Cost is Rs. 49.65 Crores. Budget for Environmental protection towards Capital Cost is Rs. 201 Lakhs and Recurring Cost is Rs. 28 Lakhs/annum. Budget for CER is Rs. 99.3lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

CHAIRMAN, SEAC

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	8-Hydroxy quinoline	10.00	333.33
2	Ciclopirox olamine	2.00	66.67
3	Cinnarizine Hydrochloride	5.00	166.67
4	Citicoline Sodium	10.00	333.33
5	Diacerein	2.00	66.67
6	Esomeprazole Magnesium Trihydrate	5.00	166.67
7	Ethambutol Hydrochloride	2.00	66.67
8	Ethyl hexyl glycerine	5.00	166.67
9	Ethylhexyltriazone	5.00	166.67
10	Etoricoxib	2.00	66.67
11	Famotidine	5.00	166.67
12	Favipiravir	5.00	166.67
13	Fluconazole	5.00	166.67
14	Halquinol	10.00	333.33
15	Hydroxychloroquine Sulphate	5.00	166.67
16	Isotretinoin	5.00	166.67
17	Ketorolac tromethamine	2.00	66.67
18	Levetiracetam	2.00	66.67
19	Linezolid	1.00	33.33
20	Lopinavir	5.00	166.67
21	Losartan potassium	5.00	166.67
22	Mesalamine	10.00	333.33
23	Montelukast sodium	1.00	33.33
24	Olmesartan	10.00	333.33
25	Ondansetron hydrochloride dihydrate	5.00	166.67
26	Pantoprazole sodium	5.00	166.67
27	Para chloro meta xylenol	60.00	2000.00
28	Paracetamol	10.00	333.33
29	Piroctone olamine	20.00	666.67
30	Rabeprazole sodium	5.00	166.67
31	Remdesivir	5.00	166.67
32	Ribavirin	1.00	33.33
33	Ritonavir	5.00	166.67
34	Rosuvastatin calcium	5.00	166.67
35	Sertraline hydrochloride	5.00	166.67
36	Valsartan	2.00	66.67
Total (Any 10 products shall be manufactured at any given point of time)		**150.00**	**5000.00**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S. No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/ Month
1	Citicoline sodium	Calcium Chloride	114.10	3.42
		Morpholine	89.60	2.69
2	Ethambutol hydrochloride	Monosodium glutamate	104.90	3.15
3	Ethyl hexyl glycerine (Saliguard EHG)	Methyl formate	108.80	3.26
4	Etoricoxib	Aluminium hydroxide solution (33%)	76.10	2.28
5	Favipiravir	Sodium acetate	166.70	5.00
		Potassium Bromide	174.70	5.24
6	Fluconazole	(Aluminium Hydroxide solution (33%)	257.90	7.74

CHAIRMAN, SEAC

		Ammonium nitrate	66.10	1.98
		Dimethyl Sulfoxide	56.10	1.68
7	Linezolid	Imidazole	27.00	0.81
8	Lopinavir	Benzyl Alcohol	95.80	2.87
		Monosodium citrate	189.60	5.69
		Potassium chloride	153.40	4.60
		Monosodium citrate	163.10	4.89
9	Losartan Potassium	Succinimide	54.40	1.63
		Trityl alcohol	124.40	3.73
		Sodium bromide	49.20	1.48
10	Paracetamol	Acetic acid	154.10	4.62
11	Pinctone Olamine	(Aluminum hydroxide solution (33%)	738.60	22.16
12	Rabeprazole Sodium	Sodium acetate	96.60	2.90
		Acetic acid	70.70	2.12
13	Ritonavir	Sodium acetate	95.80	2.87
		Boric acid	44.70	1.34
		4-Nitro phenol	104.70	3.14
		Sodium phosphate	34.10	1.02
14	Rosuvastatin Calcium	Meta Chloro benzoic acid	293.30	8.80
		Ethanol	29.30	0.88
15	Sertraline hydrochloride	Ammonium Chloride	35.20	1.06

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 5.0 TPH X 1& 3.0 TPH X 1	30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 x 4 Lakh K cal/hr (Coal fired)	11	Cyclone separator
3	**DG Sets:** Proposed: 2x 500 kVA	9.0	Acoustic enclosure & Silencer

The process emissions containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Dimethylamine, Ammonia & Hydrogen Iodide are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	36.87	0.00	36.87
2	Washings	0.00	5.00	5.00
3	Boilers make up	22.00	25.00	47.00
4	Cooling towers make up	141.41	26.59	168.00
5	Scrubbing system	15.50	0.00	15.50
6	Domestic	0.00	9.00	9.00
7	Gardening	0.00	13.00	13.00
	Total	**215.78**	**78.59**	**294.37**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	36.26	9.24	45.50	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	5.00	5.00	
3	Boilers Blow down	0.00	7.00	7.00	
4	Cooling towers Bleed off	0.00	18.00	18.00	
5	Scrubbing system	15.50	0.00	15.50	
6	Domestic	0.00	8.00	8.00	
Total		**51.76**	**47.24**	**99.00**	

Details of Solid Waste after expansion:

S. No	Name of the Waste	Quantity	Disposal Method
1	Organic solid waste	3829 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	108 Kg/Day	
3	Solvent Distillation Residue	736 Kg/Day	
4	Organic distillate from MEE stripper	800 Ltrs/Day	
5	Spent Mixed Solvents	As generateed	Disposed to cement industries for Co-incineration/end users as raw material.
6	Inorganic Solid Waste	1579 Kg/Day	Shall be sent to TSDF
7	MEE Salts	4962 Kg/Day	
8	ETP Sludge	100 Kg/Day	
9	Used Oils	200 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
10	Detoxified Containers/ Container liners	750 No's / Month	After Detoxification shall be sent to SPCB authorized agencies
11	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
12	Ash from boilers	9625 Kg/Day	Shall be sent to Brick Manufacturers
13	Ash from Thermo pack Boiler	1050 Kg/Day	

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 24	**M/s. Virupaksha Organics Ltd., Unit-IV, Sy. No. 10 & 42, Alinagar H/o. Chetlapotharam Village, Jinnaram Mandal, Medak District. - Environmental Clearance (Expansion) - Reg.**
Proposal No.	**SIA/TG/IND2/175907/2020 (EC)**

The representative of the project proponent Sri I. Ravinder Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

CTO issued on 04.05.2016 from TSPCB and the unit is operating. The proponent has submitted Self Certified Compliance Report.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

CHAIRMAN, SEAC

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 27,822.14 Sq m (6.875 Acres), out of which Green area is 13,882.38 Sq.m (49.90 %).

Nearest human habitation is Alinagar (V) is at 0.45 km; Nearest water body is Water body near Chetla Potharam is at 0.59 km: Nearest RF is Dundigal RF is at 0.28 km from the industry.

Project Cost for proposed expansion is Rs. 36.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 185 Lakhs and Recurring Cost is Rs. 27 Lakhs/annum. Budget for CER is Rs. 36 lakhs in first 5 years

The details of Products, by-products & production capacity are as following.

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/Day
1	(2'R)-2'-deoxy-2'-fluoro-2'methyluridine (Sofosbuvir Intermediate)	2.00	66.67
2	(2R,3R)-3-(2,4-difluorophenyl)-3-hydroxy-2-methyl-4-(1H-1,2,4-triazol-1-yl) butanethioamide sulphate (TZT-II)	3.00	100.00
3	(2R,3S)-2-(2,4-difluorophenyl)-3-methyl-[(1H-1,2,4-triazol-1-yl)methyl]oxirane (EFC-III)	3.00	100.00
4	2-(4, (4-chlorobutanoyl) phenyl)-2-methyl propyl acetate) (Fexofenadine intermediate from BCN)	3.00	100.00
5	2-(Chloromethyl)-4-Methylquinazoline (Linagliptin intermediate)	3.00	100.00
6	8 -Bromo3 Methylxanthine (Linagliptin intermediate)	3.00	100.00
7	4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile	5.00	166.67
8	6-bromo-3-hydroxypyrazine-2-carboxamide (Favipiravir intermediate)	5.00	166.67
9	Bilastine	5.00	166.67
10	Crisaborole	3.00	100.00
11	Favipiravir	3.00	100.00
12	Fexofenadine hydrochloride (MAC)	10.00	333.33
13	Fluconazole	10.00	333.33
14	Isavuconazole	3.00	100.00
15	Methyl (1R,2R-1,2-bis (methane sulfonyl- oxymethyl) Cyclohexane (Lurasidone intermediate)	3.00	100.00
16	Ranolazine	7.00	233.33
17	Tapentadol hydrochloride	3.00	100.00
18	Tavaborole	6.00	200.00
19	Tramadol hydrochloride	20.00	666.67
Total		100	3333.33

LIST OF BY-PRODUCTS & ITS QUANTITIES

S. No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/ Month
1	2-[4-(4-chloro-butyryl)-phenyl]-2-methyl-propyl Acetate (Fexofenadine hydrochloride intermediate from BCN)	(Aluminium chloride solution (25%)	204.80	6.14

CHAIRMAN, SEAC

S. No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/ Month
2	6-bromo-3-hydroxypyrazine-2-carboxamide (Favipiravir intermediate)	Sodium acetate	89.00	2.67
3	Favipiravir	Sodium acetate	100 00	3.00
		Potassium Bromide	104 80	3.14
4	Fexofenadine Hydrochloride	Sodium acetate	146.10	4.38
		Manganese dioxide	133.10	3.99
		Potassium chloride	114.10	3.42
		Potassium chloride	84.40	2.53
5	Methyl (1r,2r)-1,2-bis(methane sulfonyloxy methyl)Cyclohexane (Lurasidone hydrochloride intermediate)	Boric acid	29.00	0.87
		Sodium acetate	38.50	1.16
6	Tapentadol Hydrochloride	(-) Dibenzoyl-L-tartaric acid monohydrate	363.60	10.91

Details of Utilities, Stacks & Air pollution control equipments after expansion:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Existing: 1 x 1.0 TPH Proposed: 1 x 4 0 TPH Proposed: 1 x 6.0TPH	30 30 35	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Existing: 1 x 2 Lakh K.cal/hr	14	Cyclone separator
3	**DG Sets:** Existing: 1 x 62.5 KVA, Proposed: 1 x 500 KVA & 1 x 1000 KVA	6.0 9.0 10.0	Acoustic enclosures& Silencers

The process emissions containing Sulphur dioxide, Methyl Bromide. Hydrogen Chloride, Hydrogen Bromide & Hydrogen Iodide are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide& Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	32.21	0.00	32 21
2	Washings	0.00	3.50	3.50
3	Boilers make up	53.50	11.00	64.50
4	Cooling towers make up	91.94	11.06	103.00
5	Scrubbing system	4.50	0.00	4.50
6	Domestic	0.00	13.50	13.50
7	Gardening	0.00	21.00	21.00
	Total	**182.15**	**60.06**	**242.21**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	34.53	0.75	35.28	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.
2	Washings	0.00	3.50	3.50	
3	Boilers Blow down	0 00	9.50	9.50	
4	Cooling towers Bleed	0.00	11.00	11.00	

CHAIRMAN, SEAC

	off				Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
5	Scrubbing system	4.50	0.00	4.50	
6	Domestic	0.00	12.00	12.00	
Total:		**39.03**	**36.75**	**75.78**	

Details of Solid Waste after expansion:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	2478 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	91 Kg/Day	
3	Solvent Distillation Residue	487 Kg/Day	
4	Organic distillate from MEE Stripper	900 Kg/Day	
5	Inorganic Solid Waste	585 Kg/Day	Shall be sent to TSDF
6	MEE Salts	3116 Kg/Day	
7	ETP Sludge	110 Kg/Day	
8	Used Oils	315 Lts/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	750 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	6 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent Mixed solvents	As generated	Disposed to cement industries for Co-incineration/end users as raw material.
12	Ash from boilers	12775 Kg/Day	Shall be sent to Brick Manufacturers
13	Ash from Thermo pack boiler	525 Kg/ Day	

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 25	**M/s. SAMBI PHARMA PVT. LTD., Sy Nos: Parts of 29 & 30, Thimmapur Village, Talakondapally Mandal, Rangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176040/2020 (EC)**

The representative of the project proponent Sri A. Pradeep Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 53691.50 Sq.m (13.267 Acres), out of which Green area is 19771.33 Sq.m (36.82 %).

Nearest human habitation is Jagabvinpalli (V) is at 1.3 km, Nearest water body is Sahadevi Samudram (Veljal Lake) is at 3.64 km; No RF are within 10 km radius from the industry.

Proposed Project Cost is Rs. 44.5 Crores. Budget for Environmental protection towards Capital Cost is Rs. 259 Lakhs and Recurring Cost is Rs. 47 Lakhs/annum. Budget for CER is Rs. 89 lakhs in first 5 years.

CHAIRMAN, SEAC

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Losartan Potassium	25.00	833.33
2	Metformin Hydrochloride	50.00	1666.67
3	Mirtazapine	5.00	166.67
4	Montelukast Sodium	10.00	333.33
5	Mycophenolate Mofetil	5.00	166.67
6	Nebivolol Hydrochloride	5.00	166.67
7	Netarsudil	5.00	166.67
8	Nitrofurantoin	2.00	66.67
9	Nortriptyline Hydrochloride	2.00	66.67
10	Olanzapine	2.00	66.67
11	Olmesartan	25.00	833.33
12	Omeprazole	25.00	833.33
13	Ondansetron Hydrochloride Dihydrate	5.00	166.67
14	Oseltamivir Phosphate	10.00	333.33
15	Palbociclib	5.00	166.67
16	Pantoprazole Sodium Sesquihydrate	10.00	333.33
17	Paroxetine Hydrochloride Hemihydrate	5.00	166.67
18	Peramivir	5.00	166.67
19	Perampanel	5.00	166.67
20	Perindopril tert-butylamine	5.00	166.67
21	Pimavanserin tartarate	5.00	166.67
22	Pirfenidone	5.00	166.67
23	Posaconazole	5.00	166.67
24	Prasugrel	5.00	166.67
25	Quetiapine Fumarate	5.00	166.67
26	Rabeprazole Sodium	10.00	333.33
27	Raloxifene Hydrochloride	5.00	166.67
28	Ramipril	5.00	166.67
29	Ranolazine	5.00	166.67
30	Remdesivir	10.00	333.33
31	Repaglinide	5.00	166.67
32	Ribavirin	5.00	166.67
33	Risedronate sodium	5.00	166.67
34	Risperidone	5.00	166.67
35	Ritonavir	5.00	166.67
36	Rivaroxaban	5.00	166.67
37	Rosuvastatin Calcium	10.00	333.33
38	Selexipag	5.00	166.67
39	Sertraline Hydrochloride	5.00	166.67
40	Sevelamer Hydrochloride	5.00	166.67
41	Simvastatin	5.00	166.67
42	Sitagliptin	5.00	166.67
43	Sofosbuvir	5.00	166.67
44	Solifenacin Succinate	5.00	166.67
45	Sumatriptan Succinate	5.00	166.67
46	Tadalafil	5.00	166.67
47	Tamsulosin Hydrochloride	5.00	166.67
48	Tenofovir Disoproxil Fumarate	5.00	166.67
49	Ticagrelor	5.00	166.67
50	Tolvaptan	5.00	166.67
51	Trazadone Hydrochloride	5.00	166.67

CHAIRMAN, SEAC

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
52	Urapidil	5.00	166.67
53	Valacyclovir Hydrochloride Monohydrate	10.00	333.33
54	Valganciclovir Hydrochloride	10.00	333.33
55	Valsartan	25.00	833.33
56	Vardenafil	5.00	166.67
57	Varenicline Tartrate	5.00	166.67
58	Venlafaxine Hydrochloride	5.00	166.67
59	Vildagliptin	5.00	166.67
60	Voglibose	5.00	166.67
61	Vonoprazan fumarate	5.00	166.67
62	Voriconazole	5.00	166.67
Total (Any 5 products shall be manufactured at any given point of time)		**150.00**	**5000.00**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S. No	Product Name	By-Product Name	Quantity	
			Kg/Day	MT/ Month
1	Losartan Potassium	Succinimide	301.67	9.05
		Trityl alcohol	665.42	19.96
		Sodium bromide	263.33	7.90
2	Oseltamivir Phosphate	Tert butyl chloride	97.00	2.91
3	Paroxetine Hydrochloride Hemihydrate	Potassium chloride	38.17	1.15
		Phenol	48.17	1.45
4	Perampanel	Potassium Bromide	71.50	2.15
		Fumaric acid	62.17	1.87
5	Prasugrel	Succinamide	93.17	2.80
		Sodium bromide	80.50	2.42
6	Rabeprazole Sodium	Sodium acetate	193.29	5.80
		Acetic acid	141.43	4.24
7	Ramipril	Imidazole	80.92	2.43
		Sodium fumarate	78.17	2.35
		Toluene	45.00	1.35
8	Ritonavir	Sodium acetate	95.77	2.87
		Boric acid	44.73	1.34
		4-Nitro phenol	104.73	3.14
		Sodium phosphate	34.13	1.02
9	Rosuvastatin Calcium	Meta Chloro benzoic acid	586.67	17.60
		Ethanol	58.67	1.76
10	Simvastatin	n-Butylamine	39.35	1.18
11	Solifenacin Succinate	Triethylamine Hydrochloride	86.58	2.60
12	Sumatriptan Succinate	Potassium phosphate	449.70	13.49
13	Tenofovir Disoproxil Fumarate	Triethylamine hydrochloride	42.97	1.29
14	Tolvaptan	Diisopropyl ethyl amine hydrochloride salt	178.42	5.35
		Diisopropyl ethyl amine oxalate salt	93.83	2.81
15	Trazadone Hydrochloride	Sodium bromide	94.60	2.84
16	Valacyclovir Hydrochloride Monohydrate	Acetic acid	139.66	4.19
17	Valsartan	Potassium chloride	224.58	6.74
		Potassium Bromide	358.48	10.75
18	Vardenafil	Triethylamine Hydrochloride	89.35	2.68
19	Voglibose	Toluene	270.58	8.12

Note: The quantity of By-products based on respective produces being manufactured

CHAIRMAN, SEAC

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 3.0 TPH& 2 x 5.0 TPH	 30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 2 x 2 Lakh K.cal/hr	11	Cyclone separator
3	**DG Sets:** Proposed: 2 x 500 KVA & 1 x 250 KVA	 9.0 7.0	Accoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Dimethyl amine, Ammonia & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen, Propane & Butane are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	38.60	0.00	38.60
2	Washings	0.00	5.00	5.00
3	Boilers make up	62.00	14.00	76.00
4	Cooling towers make up	137.59	15.41	153.00
5	Scrubbing system	8.50	0.00	8.50
6	Domestic	0.00	11.50	11.50
7	Gardening	0.00	29.50	29.50
	Total	**246.69**	**75.41**	**322.1**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	41.42	3.23	44.65	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	5.00	5.00	
3	Boilers Blow down	0.00	11.00	11.00	
4	Cooling towers Bleed off	0.00	16.00	16.00	
5	Scrubbing system	8.50	0.00	8.50	
6	Domestic	0.00	10.00	10.00	
Total:		**49.92**	**45.23**	**95.15**	

Details of Solid Waste& Hazardous waste:

S. No	Name of the Waste	Quantity	Disposal Method
	Hazardous Waste Details		
1	Organic solid waste (Process Residue)	5698 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	205 Kg/Day	
3	Solvent Distillation Residue	1088 Kg/Day	
4	Organic distillate from MEE Stripper	900 Ltrs/Day	
5	Inorganic Solid Waste	1776 Kg/Day	Shall be sent to TSDF
6	MEE Salts	4267 Kg/Day	
7	ETP Sludge	110 Kg/Day	

CHAIRMAN, SEAC

8	Used Oils	250 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container Liners	750No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	6 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent Mixed solvents	As generated	Disposed to cement industries for Co-incineration/end users as raw material.
12	Ash from boilers	14000 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC

Agenda Item No. 26	**M/s. Sri Sai Uma Laboratories Pvt. Ltd., Unit-II, Sy No's: Parts of 636 & 637, Peddakaparthi Village, Chityala Mandal, Nalgonda District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176080/2020 (EC)**

The representative of the project proponent Sri P.N. Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 12,140.60 S.qm (3.0 Acres), out of which Green area is 4,030.80 Sq.m (33.20 %).

Nearest human habitation is China Kaparthy (V) is at 0.78 km; Nearest water body is Water body near Peda Kaparthi is at 2.73 km; No RF located within 10 km radius from the industry.

Proposed Project Cost is Rs. 18.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 157 Lakhs and Recurring Cost is Rs. 23 Lakhs/annum. Budget for CER is Rs. 36 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following.

List of Proposed Products & its Quantities

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Abacavir	5.00	166.67
2	Amlodipine Besylate	10.00	333.33
3	Atorvastatin Calcium Trihydrate	5.00	166.67
4	Clopidogrel Bisulfate	10.00	333.33
5	Domperidone	10.00	333.33
6	Enalapril Maleate	5.00	166.67
7	Escitalopram oxalate	10.00	333.33
8	Favipiravir	2.00	66.67
9	Fluconazole	5.00	166.67

CHAIRMAN, SEAC

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
10	Imatinib Mesylate	2.00	66.67
11	Lamivudine	5.00	166.67
12	Raltegravir	2.00	66.67
13	Ramipril	5.00	166.67
14	Remdesivir	2.00	66.67
15	Ritonavir	2.00	66.67
16	Rosuvastatin Calcium	5.00	166.67
17	Sitagliptin	3.00	100.00
18	Trazadone hydrochloride	3.00	100.00
Total (Any Six products shall be manufactured at any given point of time)		**50.00**	**1666.67**

List of By-Products & its Quantities

S. No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	MT/ Month
1	Abacavir	Phosphoric acid	83.70	2.51
		Disodium tartarate	149.20	4.48
2	Clopidogrel Bisulfate	Triethylamine Hydrochloride	149.70	4.49
		P-Toluene sulfonic acid	168.70	5.06
3	Domperidone	Sodium acetate	225.10	6.75
		Ammonia sulphate	238.50	7.16
		Ammonium chloride	63.70	1.91
		Sodium bromide	122.50	3.68
		Ammonium chloride	48.20	1.45
4	Escitalopram oxalate	Diparatoluyl D-Tartaric acid	606.60	18.20
5	Favipiravir	Sodium acetate	73.70	2.21
		Potassium Bromide	73.50	2.21
6	Fluconazole	Aluminium Hydroxide solution (33%)	259.00	7.77
		Ammonium nitrate	66.30	1.99
7	Lamivudine	Triethylamine	108.00	3.24
		L-Menthol	146.80	4.40
		Boric acid	58.10	1.74
8	Ramipril	Imidazole	81.00	2.43
		Sodium Fumarate	78.20	2.35
9	Ritonavir	Sodium acetate	38.30	1.15
		Boric acid	17.90	0.54
		4-Nitro phenol	41.90	1.26
		Sodium phosphate	13.70	0.41
10	Rosuvastatin Calcium	Meta Chloro benzoic acid	293.30	8.80
11	Trazadone Hydrochloride	Sodium bromide	56.80	1.70

Note: The quantity of By products based on respective products being manufactured

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 2.0 TPH& 1 x 3.0 TPH	 30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 x 2 Lakh K.cal/hr	11	Cyclone separator

CHAIRMAN, SEAC

3	DG Sets: Proposed: 1 x 125 KVA & 1 x 500 KVA	7.0 9.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Methyl Chloride, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Hydrogen Iodide & Dimethyl amine are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	22.62	0.00	22.62
2	Washings	0.00	2.00	2.00
3	Boilers make up	17.40	12.6	30.00
4	Cooling towers make up	50.92	12.08	63.00
5	Scrubbing system	4.00	0.00	4.00
6	Domestic	0.00	4.50	4.50
7	Gardening	0.00	6.00	6.00
	Total	**94.94**	**37.18**	**132.12**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	24.41	1.85	26.26	**HTDS:** HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:** LTDS effluents shall be treated in Biological ETP – RO Plant. RO Rejects to MEE System and RO permeate to reuse, Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	0.00	2.00	2.00	
3	Boilers Blow down	0.00	5.00	5.00	
4	Cooling towers Bleed off	0.00	6.50	6.50	
5	Scrubbing system	4.00	0.00	4.00	
6	Domestic	0.00	4.00	4.00	
Total:		**28.41**	**19.35**	**47.76**	

Details of Solid Waste& Hazardous Waste:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	3497 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	92 Kg/Day	
3	Solvent Distillation Residue	609 Kg/Day	
4	Organic distillate from MEE Stripper	560 Ltrs/Day	
5	Inorganic Solid Waste	998 Kg/Day	Shall be sent to TSDF
6	MEE Salts	2000 Kg/Day	
7	ETP Sludge	70 Kg/Day	
8	Used Oils	125 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container Liners	450 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent Mixed solvents	As generated	Disposed to cement industries for Co-incineration and use as raw

CHAIRMAN, SEAC

			material.
11	Ash from boilers	5950 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 27	**M/s. ADEEP Pharma Pvt. Ltd., Sy. Nos. Parts of 119,122,123,124 & 126, Nagloor Village, Gandhari Mandal, Kamareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176180/2020 (EC)**

The representative of the project propenent Dr. Venkata Suryanarayana; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 1,45,687.00 Sq.m (36.0 Acres), out of which Green area is 49,704.69 Sq.m (34.12%).

Nearest human habitation is Naglur (V) is at 1.53 km; Nearest water body is Motku Cheruvu is at 1.89 km; Nearest RF is Gaurararn. RF is at 1.01 km from the industry.

Proposed Project Cost is Rs. 59.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 323 Lakhs and Recurring Cost is Rs. 38 Lakhs/annum. Budget for CER is Rs. 118 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Abacavir	20.00	666.67
2	Allopurinol	20.00	666.67
3	Apixaban	10.00	333.33
4	Azilsartan Medoxomil	20.00	666.67
5	Capecitabine	10.00	333.33
6	Dabigatranetexilate	5.00	166.67
7	Dasatinib	2.00	66.67
8	Entacapone	15.00	500.00
9	Erlotinib Hydrochloride	2.00	66.67
10	Escitalopram Oxalate	10.00	333.33
11	Favipiravir	15.00	500.00
12	Flurbiprofen	20.00	666.67
13	Gefitinib	5.00	166.67
14	Gemcitabine Hydrochloride	2.00	66.67
15	Losartan potassium	20.00	666.67
16	Mirtazapine	30.00	1000.00
17	Montelukast Sodium	5.00	166.67
18	Moxifloxacin Hydrochloride	5.00	166.67
19	Nebivolol Hydrochloride	2.00	66.67
20	Olmesartan Medoxomil	10.00	333.33
21	Oseltamivir phosphate	10.00	333.33
22	Pantoprazole Sodium	20.00	666.67

CHAIRMAN, SEAC

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
23	Pemetrexed di sodium	1.00	33.33
24	Pitavastatin Calcium	5.00	166.67
25	Pregabalin	20.00	666.67
26	Rivaroxaban	5.00	166.67
27	Rosuvastatin Calcium	20.00	666.67
28	Sitagliptin phosphate Monohydrate	5.00	166.67
29	Sorafenib Tosylate	15.00	500.00
30	Sumatriptan Succinate	15.00	500.00
31	Tadalafil	5.00	166.67
32	Telmisartan	15.00	500.00
33	Valacyclovir	10.00	333.33
34	Valganciclovir HCl	5.00	166.67
35	Valsartan	20.00	666.67
36	Voriconazole	2.00	66.67
Total (Any ten products shall be manufactured at any given point of time)		**210.00**	**7000.00**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S.No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/Month
1	Abacavir	Phosphoric acid	334.60	10.04
		Disodium tartarate	596.80	17.90
2	Allopurinol	Ethanol	2619.20	78.58
		Morpholine	1057.70	31.73
		Ammonium sulfate	566.00	16.98
3	Apixaban	Potassium chloride	142.00	4.26
		Potassium bromide	227.00	6.81
		Phosphorous trichloride	228.70	6.86
4	Azilsartan Medoxomil	1-Hlmidazole	235.20	7.06
		Potassium chloride	95.20	2.86
5	Capecitabine	Chloro pentyl formate	425.29	12.76
6	Dasatinib	Triethylaminehydrochloride	26.10	0.78
7	Erlotinib Hydrochloride	Potassium iodide	70.60	2.12
8	Escitalopram oxalate	Diparatoluyl D-Tartaric acid	606.60	18.20
9	Favipiravir	Sodium acetate	553.00	16.59
		Potassium Bromide	551.50	16.55
10	Flurbiprofen	2-Methyl Propanol	261.00	7.83
11	Losartan Potassium	Succinimide	217.50	6.53
		Trityl alcohol	497.50	14.93
		Sodium bromide	196.60	5.90
12	Oseltamivir Phosphate	Tert butyl chloride	97.00	2.91
13	Pantoprazole Sodium	Potassium Sulphate	518.20	15.55
		Sodium Di hydrogen phosphate	551.80	16.55
		Sodium acetate	226.50	6.80
14	Pitavastatin calcium	2-Methyl-propan-2-ol	38.80	1.16
15	Pregabalin	Ammonium chloride	1716.60	51.50
16	Rivaroxaban	Potassium chloride	61.40	1.84
		Tri ethyl amine Hydrochloride	99.70	2.99
		Triethylamine Hydrochloride	67.70	2.03
17	Rosuvastatin Calcium	Meta Chloro benzoic acid	1173.30	35.20
		Tri phenyl phosphine oxide	623.30	18.70
18	Sorafenib Tosylate	Potassium chloride	102.30	3.07
19	Sumatriptan Succinate	Potassium phosphate	1349.10	40.47
20	Valacyclovir Hydrochloride	Acetic acid	139.70	

CHAIRMAN, SEAC

S.No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/Month
	Monohydrate			
21	Valsartan	Potassium chloride	179.70	5.39
		Potassium Bromide	286.80	8.60

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 3 TPH& 1 x 5 TPH	 30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 X 4,00,000 K.Cal/hr	14	Cyclone separator
3	**DG Sets:** Proposed: 500 KVA x 1 & 380 KVA x 1	 9.0 8.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Methyl Chloride, Hydrogen Chloride, Hydrogen Bromide, Ammonia & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system.The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere.Further, the process emissions containing derivatives of Hydrogen and Propane are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	92.53	0.00	92.53
2	Washings	0.00	7.00	7.00
3	Boilers make up	30.00	17.00	47.00
4	Cooling towers make up	74.99	17.01	92.00
5	Scrubbing system	16.50	0.00	16.50
6	Domestic	0.00	13.50	13.50
7	Gardening	0.00	74.00	74.00
	Total	**214.02**	**128.51**	**342.53**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	97.01	19.45	116.46	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS.** Biological ETP & RO Treated effluent to be reused in cooling towers. Boiler make-up and Scrubbers.
2	Washings	0.00	7.00	7.00	
3	Boilers Blow down	0.00	7.00	7.00	
4	Cooling towers Bleed off	0.00	10.00	10.00	
5	Scrubbing system	16.50	0.00	16.50	
6	Domestic	0.00	12.00	12.00	
Total:		**113.51**	**55.45**	**168.96**	

Details of Solid Waste & Hazardous Waste:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	11513 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	428 Kg/Day	

CHAIRMAN, SEAC

3	Solvent Distillation Residue	750 Kg/Day	
4	Organic distillate from MEE Stripper	2930 Ltrs/Day	
5	Inorganic Solid Waste	4486 Kg/Day	Shall be sent to TSDF
6	MEE Salts	9706 Kg/Day	
7	ETP Sludge	330 Kg/Day	
8	Used Oils	180 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	900No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent mixed solvents	As generated	Disposed to cement industries for Co-incineration/end users as raw material.
12	Ash from boilers	9625 Kg/Day	Shall be sent to Brick Manufacturers
13	Ash from Thermo pack boiler	1050 Kg/Day	

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 28	**M/s. Tagoor Chemicals, Plot. No's: 82, 98, 99, 100, 117 to 124, 130 to 135 & 141, SVCIE, IDA – Jeedimetla, Quthbullapur (V), Medchal (M), Malkajgiri District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176430/2020 (EC)**

The representative of the project proponent Sri P.V.R Krishna; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

CFE issued on 06.05.2004 from APPCB for IPA HCl, IPDHB, DFMPDA.

CFO issued on 15.12.2015 from TSPCB and the unit is operating.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP

The SEAC examined the proposal as per the provisions laid under S.O.1222 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is **5,340.00 Sq.m (1.32 Acres)**, out of which Green area is 2121.28 Sq.m (39.72 %).

Nearest human habitation is Jeedimetla (V) is at 0.39 km; Nearest water body is Fox Sagar is at 0.69 km; Nearest RF is Dullapalle RF is at 1.18 km from the industry.

Project Cost for proposed expansion is Rs. 6.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 104 Lakhs and Recurring Cost is Rs. 17 Lakhs/annum. Budget for CER is Rs. 6.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	1-methyl-piperidine-4-one (Domperidone intermediate)	10.00	333.33
2	Domperidone	10.00	333.33
3	Losartan potassium	10.00	333.33
4	N-carbethoxy-4-piperidone (Domperidone	10.00	333.33

CHAIRMAN, SEAC

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
	intermediate)		
5	Loratadine	10.00	333.33
6	Omeprazole	10.00	333.33
7	Pantoprazole sodium	10.00	333.33
8	R & D Products	0.10	3.33
Total (Any 3 products shall be manufactured at any given point of time)		**30.00**	**1000.00**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S. No	Name of the product	Name of the By-product	Quantity	
			Kg/day	T/Month
1	1-Methyl-Piperidine-4-One (Domperidone Intermediate)	Sodium acetate	322.20	9.67
		Methanol	293.70	8.81
2	Domperidone	Ammonium chloride	117.60	3.53
		Sodium bromide	131.50	3.95
		Ammonium sulphate	274.65	8.24
		Sodium acetate	277.50	8.33
3	Losartan Potassium	Succinimide	150.90	4.53
		Trityl alcohol	309.30	9.28
		Sodium bromide	122.20	3.67
4	Loratadine	Potassium chloride	155.60	4.67
5	Omeprazole	Ammonium sulphate	168.80	5.06
		Sodium nitrite	72.29	2.17
6	Pantoprazole Sodium	Sodium di hydrogen phosphate	483.49	14.50

Details of Utilities, Stacks & Air pollution control equipments after expansion:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 4.0 TPH	30	Cyclone separator followed by suitable pack of Bag filters
2	**DG Sets:** Existing: 1 x 125KVA Proposed: 1 x 250KVA	6.0 7.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	14.07	0.00	14.07
2	Washings	0.00	2.00	2.00
3	Boilers make up	14.30	9.20	23.50
4	Cooling towers make up	44.00	10.00	54.00
5	Scrubbing system	3.50	0.00	3.50
6	Domestic	0.00	2.50	2.50
7	Gardening	0.00	3.00	3.00
	Total	**75.87**	**26.70**	**102.57**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	16.60	0.65	17.25	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	2.00	2.00	
3	Boilers Blow down	0.00	3.50	3.50	
4	Cooling towers Bleed off	0.00	6.00	6.00	
5	Scrubbing system	3.50	0.00	3.50	
6	Domestic	0.00	2.00	2.00	
Total:		**20.10**	**14.15**	**34.25**	

Details of Solid Waste & Hazardous waste after expansion:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	2775 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	52 Kg/Day	
3	Solvent Distillation Residue	370 Kg/Day	
4	Organic distillate from MEE Stripper	430 Ltrs/Day	
5	Inorganic Solid Waste	1006 Kg/Day	Shall be sent to TSDF
6	MEE Salts	2123 Kg/Day	
7	ETP Sludge	55 Kg/Day	
8	Used Oils	75 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	450 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent mixed solvents	As generated	Disposed to cement industries for Co-incineration/end users as raw material.
12	Ash from boiler	5600 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 29	**M/s. Sambi Chemicals, Sy. Nos. Parts of 28, 30 & 31, Thimmapur Village, Talakondapally Mandal, Rangareddy District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176255/2020 (EC)**

The representative of the project proponent Sri B. Pratap Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposedproject as follows:

Total area is 53,414.73 Sq.m (13.20 Acres), out of which Green area is 25,657.59 Sq.m (48.03 %).

CHAIRMAN, SEAC

Nearest human habitation is Jagaboinpalli (V) is at 1.51 km; Nearest water body is at 1.29 km; No RF located within 10 km radius.

Proposed Project Cost is Rs. 34.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 263 Lakhs and Recurring Cost is Rs. 36 Lakhs/annum. Budget for CER is Rs. 68 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Abacavir	10.00	333.33
2	Adapalene	10.00	333.33
3	Alfuzosin Hydrochloride	2.00	66.67
4	Allopurinol	2.00	66.67
5	Amiloride	2.00	66.67
6	Amlodipine Besylate	10.00	333.33
7	Avanafil	5.00	166.67
8	Baloxavirmarboxil	5.00	166.67
9	Bazedoxifene	2.00	66.67
10	Brinzolamide	5.00	166.67
11	Brivaracetam	5.00	166.67
12	Carvedilol	10.00	333.33
13	Celecoxib	5.00	166.67
14	Citalopram Hydrobromide	10.00	333.33
15	Clonazapam	5.00	166.67
16	Clopidogrel Bisulphate	25.00	833.33
17	Cyclobenzaprine Hydrochloride	5.00	166.67
18	Dabigatran etexilate Mesylate	5.00	166.67
19	Danofloxacin	5.00	166.67
20	Darunavir	5.00	166.67
21	Dasatinib	5.00	166.67
22	Deferasirox	5.00	166.67
23	Deferiprone	5.00	166.67
24	Dexlansoprazole	5.00	166.67
25	Dextromethorphan Hydrobromide Monohydrate	25.00	833.33
26	Diltiazem Hydrochloride	5.00	166.67
27	Donepezil Hydrochloride	5.00	166.67
28	Doxazosin Mesylate	5.00	166.67
29	Duloxetine Hydrochloride	5.00	166.67
30	Edoxaban	5.00	166.67
31	Eletriptan	5.00	166.67
32	Enalapril Maleate	10.00	333.33
33	Escitalopram oxalate	5.00	166.67
34	Eszopiclone	5.00	166.67
35	Ezetimibe	5.00	166.67
36	Favipiravir	5.00	166.67
37	Fenofibrate	5.00	166.67
38	Fluvoxamine Maleate	5.00	166.67
39	Gabapentin	25.00	833.33
40	Glimepiride	5.00	166.67
41	Glipizide	5.00	166.67
42	Hydrochlorothiazide	5.00	166.67
43	Hydroxychloroquine sulfate	5.00	166.67
44	Labetalol Hydrochloride	10.00	333.33
45	Lamivudine	10.00	333.33

CHAIRMAN, SEAC

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
46	Lamotrigine	10.00	333.33
47	Lansoprazole	25.00	833.33
48	Levetiracetam	25.00	833.33
49	Levofloxacin Hemihydrate	5.00	166.67
50	Levothyroxine Sodium	5.00	166.67
51	Linagliptin	5.00	166.67
52	Loperamide hydrochloride	5.00	166.67
53	Loratadine	5.00	166.67
54	Memantine hydrochloride	5.00	166.67
55	Mesalamine	5.00	166.67
56	Metoclopramide Hydrochloride	5.00	166.67
57	Mirabegron	5.00	166.67
Total (Any 10 products shall be manufactured at any given point of time)		**175.00**	**5833.33**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S.No	Product Name	By Product Name	Quantity	
			Kg/Day	T/ Month
1	Allopurinol	Ethanol	209.53	6.29
		Morpholine	84.61	2.54
		Ammonium sulfate	45.28	1.36
2	Avanafil	N,N-Dicyclohexyl urea	93.00	2.79
3	Baloxavirmarboxil	Benzyl chloride	53.67	1.61
4	Brinzolamide	p-Toluene sulfonic acid	89.08	2.67
5	Brivaracetam	1,1,1,3,3,3-Hexamethyl – disilazane	154.67	4.64
6	Cyclobenzaprine Hydrochloride	Sodium Bromide	217.97	6.54
		Magnesium chloride	77.55	2.33
7	Darunavir	Tert-Butanol	36.67	1.10
		Triethylamine hydrochloride	68.08	2.04
8	Dasatinib	Triethylamine hydrochloride	65.21	1.96
9	Dextromethorphan Hydrobromide Monohydrate	Sodium acetate	64.96	1.95
10	Donepezil Hydrochloride	Dimethyl Sulfide	39.83	1.19
		Tert-butanol	50.25	1.51
11	Duloxetine Hydrochloride	Oxalic acid	53.46	1.60
12	Edoxaban	Triethylamine Hydrochloride	73.33	2.20
13	Eszopiclone	Potassium chloride	174.25	5.23
		Manganese dioxide	116.60	3.50
		Sodium perborate	47.25	1.42
14	Eletriptan	Triethylamine Hydrochloride	146.85	4.40
15	Escitalopram oxalate	Diparatoluyl D-Tartaric acid	303.29	9.10
16	Favipiravir	Sodium acetate	184.33	5.53
		Potassium Bromide	0.00	0.00
17	Fenofibrate	Potassium Bromide	74.17	2.23
18	Labetalol Hydrochloride	Boric acid	381.67	11.45
19	Lamivudine	L-Menthol	293.57	8.81
		Boric acid	0.00	0.00
20	Lansuprazole	Sodium acetate	355.33	10.66
		Acetic acid	260.17	7.81
		Potassium Nitrite	368.67	11.06

CHAIRMAN, SEAC

S.No	Product Name	By Product Name	Quantity	
			Kg/Day	T/ Month
21	Levothyroxine Sodium	Triethylamine Hydrochloride	71.00	2.13
22	Loperamide hydrochloride	Magnesium Bromide	132.25	3.97
23	Loratadine	Potassium chloride	77.81	2.33
24	Memantine hydrochloride	Potassium acetate	107.50	3.23
25	Metoclopramide Hydrochloride	Sodium acetate	91.34	2.74
26	Mirabegron	Acetic acid	117.67	3.53
		Ammonium sulphate	128.17	3.85

Note: The quantity of By-products based on respective products being manufactured.

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 3.0 TPH& 1 x 5.0 TPH	30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 x 2 Lakh K.cal/hr	11	Cyclone separator
3	**DG Sets:** Proposed: 1 x 500 KVA & 1 x 380 KVA	9.0 8.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Ammonia & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide& Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogenis to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	57.33	0.00	57.33
2	Washings	0.00	6.00	6.00
3	Boilers make up	29.00	18.00	47.00
4	Cooling towers make up	95.76	18.24	114.00
5	Scrubbing system	11.00	0.00	11.00
6	Domestic	0.00	9.00	9.00
7	Gardening	0.00	38.00	38.00
Total		**193.09**	**89.24**	**282.33**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	59.11	11.83	70.94	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	6.00	6.00	
3	Boilers Blow down	0.00	7.00	7.00	
4	Cooling towers Bleed off	0.00	12.00	12.00	
5	Scrubbing system	11.00	0.00	11.00	
6	Domestic	0.00	8.00	8.00	
Total:		**70.11**	**44.83**	**114.94**	

CHAIRMAN, SEAC

Details of Solid Waste& Hazardous waste:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	6287 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	246 Kg/Day	
3	Solvent Distillation Residue	1518 Kg/Day	
4	Organic distillate from MEE Stripper	1230 Ltrs/Day	
5	Inorganic Solid Waste	5430 Kg/Day	Shall be sent to TSDF
6	MEE Salts	7269 Kg/Day	
7	ETP Sludge	140 Kg/Day	
8	Used Oils	180 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	900 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent mixed solvents	As generated	Disposed to cement industries for Co-incineration/end users as raw material.
12	Ash from boilers	9625 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 30	**M/s. Simson Life Sciences Pvt. Ltd., Sy. Nos 147, Chilmeda (V), Nizampet (M), Medak District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176707/2020 (EC)**

The representative of the project proponent Sri P. Satyanarayana Rao; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 15,944.61 Sq.m (3.94 Acres), out of which Green area is 6410.72 Sq.m (40.21 %).

Nearest human habitation is Ramchandrapur (V) is at 1.60 km; Nearest water body is Canal Near Nandagokul is at 1.64 km; No RF located within 10 km radius from the industry.

Proposed Project Cost is Rs. 15.95 Crores. Budget for Environmental protection towards Capital Cost is Rs. 255 Lakhs and Recurring Cost is Rs. 31 Lakhs/annum. Budget for CER is Rs. 31.90 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

CHAIRMAN, SEAC

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Acyclovir	10.00	333.33
2	Atorvastatin Calcium Trihydrate	10.00	333.33
3	Bendamustine hydrochloride	0.50	16.67
4	Brexpiprazole	5.00	166.67
5	Darunavir	10.00	333.33
6	Diclofenamide	5.00	166.67
7	Dronedarone hydrochloride	10.00	333.33
8	Efavirenz	15.00	500.00
9	Emtricitabine	15.00	500.00
10	Ethiodiol	0.50	16.67
11	Favipiravir	5.00	166.67
12	Furosemide	10.00	333.33
13	Gadobuterol	2.00	66.67
14	Hydroxy Chloroquine sulfate	5.00	166.67
15	Iloperidone	5.00	166.67
16	Iodixanol	2.00	66.67
17	Iopamidol	2.00	66.67
18	Lamivudine	15.00	500.00
19	Ledipasvir	5.00	166.67
20	Lopinavir	10.00	333.33
21	Losartan potassium	10.00	333.33
22	Melphalan	0.50	16.67
23	Moxifloxacin hydrochloride	10.00	333.33
24	Neostigmine methyl sulphate	0.50	16.67
25	Olmesartan	5.00	166.67
26	Paliperidone	5.00	166.67
27	Pregabalin	5.00	166.67
28	Ritonavir	10.00	333.33
29	Sotalol hydrochloride	2.00	66.67
30	Stavudine	15.00	500.00
31	Telmisartan	10.00	333.33
32	Valsartan	15.00	500.00
33	Zidovudine	15.00	500.00
Total (Any 10 products shall be manufactured at any given point of time)		**130.00**	**4333.33**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S.No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/Month
1	Acyclovir	Acetic Acid	231.30	6.94
2	Efavirenz	Sodium acetate	154.60	4.64
3	Emtricitabine	L-Menthol	533.10	15.99
		Triethylamine Hydrochloride	394.50	11.84
4	Favipiravir	Sodium acetate	166.70	5.00
		Potassium Bromide	174.70	5.24
5	Gadobuterol	Potassium Bromide	143.30	4.30
		Potassium bicarbonate-	146.70	4.40
		Sodium chloride	80.00	2.40
6	Iodixanol	Sodium chloride	13.30	0.40
7	Iopamidol	Triethylamine hydrochloride	17.90	0.54
8	Lamivudine	Triethylamine	302.70	9.08
		L-Menthol	420.70	12.62
9	Lopinavir	Benzyl Alcohol	191.50	5.75

CHAIRMAN, SEAC

		Monosodium citrate	379.20	11.38
		Potassium chloride	306.90	9.21
		Monosodium citrate	326.20	9.79
10	Losartan Potassium	Succinimide	108.80	3.26
		Trityl alcohol	248.70	7.46
		Sodium bromide	98.30	2.95
11	Neostigmine methyl sulfate	Potassium chloride	33.30	1.00
		Potassium bicarbonate	16.70	0.50
12	Pregabalin	Ammonium chloride	429.20	12.88
13	Ritonavir	Sodium acetate	191.50	5.75
		Sodium phosphate	68.30	2.05
		4-nitro phenol	209.50	6.29
14	Sotalol hydrochloride	Triethylamine HCl	35.10	1.05
		Potassium chloride	15.10	0.45
15	Stavudine	Sodium Acetate	305.30	9.16
		Methane sulphonic acid	314.50	9.44
		Benzaldehyde	268.80	8.06
16	Valsartan	Potassium chloride	67.40	2.02
		Potassium Bromide	107.50	3.23
17	Zidovudine	Triethylamine Hydrochloride	581.10	17.43
		Triethylamine Hydrochloride	494.30	14.83
		Benzene sulfonic acid	348.50	10.46

Note: The quantity of By-products based on respective products being manufactured.

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boiler:** Proposed: 1 x 5.0 TPH	30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 x 2 Lakh K.cal/hr	11	Cyclone separator
3	**DG Sets:** Proposed: 2 x 500 KVA	9.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Boron trifluoride, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Hydrogen Iodide &Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	68.39	0.00	68.39
2	Washings	0.00	5.00	5.00
3	Boilers make up	4.00	25.00	29.00
4	Cooling towers make up	30.00	40.00	70.00
5	Scrubbing system	7.50	0.00	7.50
6	Domestic	0.00	11.50	11.50
7	Gardening	0.00	9.50	9.50
	Total	**109.89**	**91.00**	**200.89**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	74.48	11.67	86.15	Zero Liquid Discharge System ie., HTDS: Stripper, MEE & ATFD. LTDS: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	5.00	5.00	
3	Boilers Blow down	0.00	4.00	4.00	
4	Cooling towers Bleed off	0.00	7.50	7.50	
5	Scrubbing system	7.50	0.00	7.50	
6	Domestic	0.00	10.00	10.00	
Total:		**81.98**	**38.17**	**120.15**	

Details of Solid Waste & Hazardous Waste:

S. No	Name of theHazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	7881 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	363 Kg/Day	
3	Solvent Distillation Residue	1457Kg/Day	
4	Organic distillate from MEE Stripper	2300 Ltrs/Day	
5	Inorganic Solid Waste	3213 Kg/Day	Shall be sent to TSDF
6	MEE Salts	7600 Kg/Day	
7	ETP Sludge	260 Kg/Day	
8	Used Oils	200 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	900 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent mixed solvents	As generated	Disposed to cement manufacturers for Co-incineration/end users as a raw material
12	Ash from boiler	7000 Kg/Day	Shall be sent to Brick Manufacturers
13	Ash from Thermopack Boiler	525 Kg/Day	

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 31	**M/s. Nilima Organics Pvt. Ltd., Unit-II, Sy. No. 225/1/3/1, Gopalpur Village, M.Thurkhapalli Mandal, Yadadri Bhongir District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176896/2020 (EC)**

The representative of the project proponent Sri V. Madhukar; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

CHAIRMAN, SEAC

Total area is 6596.38 Sqm (1.63 Acre), out of which Green area is 2201.92 Sqm (33.38 %).

Nearest human habitation is Gopalpur (V) is at 1.31 km; Nearest water body is Gopalpur is at 610 mts; Nearest RF is Gollapur RF @ 1.16 km from the industry.

Proposed Project Cost is Rs. 14.55 Crores. Budget for Environmental protection towards Capital Cost is Rs. 187 Lakhs and Recurring Cost is Rs. 28 Lakhs/annum. Budget for CER is Rs. 29.1 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Albendazole	3.00	100.00
2	Apixaban	5.00	166.67
3	Clesantel Base	8.00	266.67
4	Clesantel Sodium	6.00	200.00
5	Edoxaban	5.00	166.67
6	Escitalopram Oxalate	20.00	666.67
7	Esomeprazole Magnesium Trihydrate	30.00	1000.00
8	Lurasidone hydrochloride	5.00	166.67
9	Monochloro acetic acid	10.00	333.33
10	Montelukast Sodium	20.00	666.67
11	Niclosamide	8.00	266.67
12	Oseltamivir Phosphate	5.00	166.67
13	Oxyclozanide	25.00	833.33
14	Paliperidone	3.00	100.00
15	Piperazine Hexahydrate	100.00	3333.33
16	Pirfenidone	5.00	166.67
17	Rafoxanide	4.00	133.33
18	Ritonavir	20.00	666.67
19	Rivaroxaban	10.00	333.33
20	Trityl chloride	50.00	1666.67
21	Vardenafil	5.00	166.67
Total (Any four products shall be manufactured at any given point of time)		**205.00**	**6833.33**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S. No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/Month
1	Apixaban	Potassium chloride	71.00	2.13
		Potassium bromide	113.50	3.41
		Phosphorous tri chloride	114.30	3.43
2	Edoxaban	Triethylamine Hydrochloride	73.30	2.20
3	Escitalopram oxalate	Diparatoluyl D-Tartaric acid	1213.20	36.40
4	Lurasidone hydrochloride	Methane Sulfonic acid	91.30	2.74
5	Mono Chloro acetic acid	Hydrochloric acid – 20%	723.30	21.70
6	Oseltamivir Phosphate	Tert butyl chloride	48.50	1.46
7	Ritonavir	Sodium acetate	383.10	11.49
		Boric acid	178.90	5.37
		4-Nitro phenol	418.90	12.57
		Sodium phosphate	136.50	4.10
8	Rivaroxaban	Potassium chloride	122.80	3.68
		Tri ethyl amine Hydrochloride	334.80	10.04
9	Trityl chloride	Acetic acid	718.30	21.55
10	Vardenafil	Triethylamine Hydrochloride	86.10	2.58
		Acetic acid	37.30	1.12

CHAIRMAN, SEAC

Note: The quantity of By-products based on respective products being manufactured.

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 4.0 TPH & 1 x 3.0 TPH	30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 x 4 Lakh K.cal/hr	11	Cyclone separator
3	**DG Sets:** Proposed: 2 x 250 KVA	7.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Hydrogen Fluoride & Propane are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide& Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrester.

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	36.08	0.00	36.08
2	Washings	0.00	7.00	7.00
3	Boilers make up	19.50	22.00	41.50
4	Cooling towers make up	44.72	23.28	68.00
5	Scrubbing system	9.50	0.00	9.50
6	Domestic	0.00	3.50	3.50
7	Gardening	0.00	3.50	3.50
	Total	**109.80**	**59.28**	**169.08**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	34.69	7.69	42.38	Zero Liquid Discharge System ie.. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	7.00	7.00	
3	Boilers Blow down	0.00	6.50	6.50	
4	Cooling towers Bleed off	0.00	7.50	7.50	
5	Scrubbing system	9.50	0.00	9.50	
6	Domestic	0.00	3.00	3.00	
Total:		**44.19**	**31.69**	**75.88**	

Details of Solid Waste & Hazardous Waste:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	4482 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	212 Kg/Day	
3	Solvent Distillation Residue	897 Kg/Day	
4	Organic distillate from MEE Stripper	830 Lts/Day	
5	Inorganic Solid Waste	1928 Kg/Day	Shall be sent to TSDF
6	MEE Salts	5421 Kg/Day	
7	ETP Sludge	90 Kg/Day	

CHAIRMAN, SEAC

8	Used Oils	50 Ltrs/Annum	Shall be sent to SPCB Authorize Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	900No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spen Mixed Solvents	As generated	Sent to Cement Industries for co-incineration / End users
12	Ash from boilers	8225 Kg/Day	Shall be sent to Brick Manufacturers

After detailed discussions, the SEAC recommended to reject the proposal as the project site is 1.63 acres which is less than the minimum area required as per the guidelines (2.0 acres).

Agenda Item No. 32	**M/s. LGAS Labs Pvt. Ltd., Unit-II, Sy. Nos. Parts of 361, Velimineđu Village, Chityal Mandal, Nalgonda District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/176800/2020 (EC)**

The representative of the project proponent Sri D. Bharath Kumar; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 25778.50Sqm (6.37 acres) out of which Green area is 9975.00Sqm (38.69 %).

Nearest human habitation is Chinna Kapathy (V) is at 0.75 km; Nearest water body is at 860 mts; Nearest RF is Chityala RF @ 4.26 km from the industry

Proposed Project Cost is Rs. 25.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 226 Lakhs and Recurring Cost is Rs. 29 Lakhs/annum. Budget for CER is Rs. 50 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Atorvastatin calcium Trihydrate	3.00	100.00
2	Bendamustine Hydrochloride	0.10	3.33
3	Dapoxetine Hydrochloride	3.00	100.00
4	Dextromethorphan Hydro bromide	6.00	200.00
5	Domperidone	20.00	666.67
6	Emtricitabine	4.00	133.33
7	Itraconazole	20.00	666.67
8	Lamivudine	4.00	133.33
9	Levocetrizine dihydrochloride	6.00	200.00
10	Montelukast sodium	5.00	166.67
11	Omeprazole	20.00	666.67
12	Pantoprazole sodium	10.00	333.33

CHAIRMAN, SEAC

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
13	Phenylephrine hydrochloride	3.00	100.00
14	Rosuvastatin calcium	3.00	100.00
15	Tamsulosin Hydrochloride	2.00	66.67
Total (Any 6 products shall be manufactured at any given point of time)		**82.00**	**2733.34**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S. No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	T/Month
1	Dapoxetine Hydrochloride	Potassium Bromide	69.80	2.09
		Succinamide	50.60	1.52
		Tartaric acid	50.40	1.51
2	Domperidone	Sodium acetate	555.10	16.65
		Ammonia sulphate	549.30	16.48
		Ammonium chloride	136.50	4.10
		Sodium bromide	263.00	7.89
		Ammonium chloride	98.60	2.96
3	Emtricitabine	L-Menthol	142.20	4.27
		Triethylamine Hydrochloride	105.20	3.16
4	Lamivudine	Triethylamine	86.40	2.59
		L-Menthol	117.40	3.52
		Boric acid	46.46	1.39
5	Levo Cetirizine Dihydrochloride	Tri ethyl amine hydrogen chloride	82.60	2.48
6	Omeprazole	Ammonium sulphate	549.40	16.48
		Sodium nitrite	252.20	7.57
		sodium acetate	299.90	9.00
		Ammonium sulphate	877.00	26.31
7	Pantoprazole Sodium	Sodium Di hydrogen phosphate	483.40	14.50
8	Phenylephrine Hydrochloride	Ammonium sulphate	260.00	7.80
		Ammonium tartrate	137.10	4.11
9	Rosuvastatin Calcium	Meta Chloro benzoic acid	176.00	5.28
		Tri phenyl phosphine oxide	93.50	2.81

Note: The quantity of By-products based on respective products being manufactured.

Details of Utilities, Stacks & Air pollution control equipments:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 3.0 TPH & 1 x 5.0 TPH	30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 x 2 Lakh K cal/hr(diesel fired)	11	Cyclone separator
3	**DG Sets:** Proposed: 1 x 125 kVA & 1 x 380 KVA	7 8	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide& Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide& Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

CHAIRMAN, SEAC

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	40.38	0.00	40.38
2	Washings	0.00	3.00	3.00
3	Boilers make up	31.00	16.00	47.00
4	Cooling towers make up	55.85	19.15	75.00
5	Scrubbing system	5.00	0.00	5.00
6	Domestic	0.00	4.50	4.50
7	Gardening	0.00	15.00	15.00
	Total	**132.23**	**57.65**	**189.88**

Details of Effluent generation, treatment & disposal:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	48.67	1.06	49.73	Zero Liquid Discharge System: ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
2	Washings	0.00	3.00	3.00	
3	Boilers Blow down	0.00	7.00	7.00	
4	Cooling towers Bleed off	0.00	8.00	8.00	
5	Scrubbing system	5.00	0.00	5.00	
6	Domestic	0.00	4.00	4.00	
Total:		**53.67**	**23.06**	**76.73**	

Details of Solid Waste & Hazardous Waste:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	5770 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	140 Kg/Day	
3	Solvent Distillation Residue	922 Kg/Day	
4	Organic distillate from MEE Stripper	1800 Ltrs/Day	
5	Inorganic Solid Waste	1525 Kg/Day	Shall be sent to TSDF
6	MEE Salts	4977 Kg/Day	
7	ETP Sludge	110 Kg/Day	
8	Used Oils	105 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	600No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	4 No's/ Annum	Sent back to suppliers for buyback of New Batteries
11	Spen Mixed Solvents	As generated	Sent to Cement Industries for co-incineration/ End users
12	Ash from boilers	9625 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC

Agenda Item No. 33	M/s. Metrochem API Pvt. Ltd., Unit-I, Plot No. 62/C/6, Sy. No. 298, Pipeline Road, Phase-I, IDA Jeedimetla, Qutubullapur Mandal, Medchal-Malkajigiri District. - Environmental Clearance (Expansion) - Reg.
Proposal No.	SIA/TG/IND2/176617/2020 (EC)

The representative of the project proponent Sri P.M. Dayakar; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

EC obtained on dt. 01.07.2005 from the MoE&F, GoI for the existing unit.

CFO issued on 13.05.2016 from TSPCB is valid upto 31.03.2021and the unit is operating.

Submitted copy of self certified compliance report.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1225 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 2009.45 Sqm, out of which Green area is 695.68 Sqm (34.62 %).

Nearest human habitation is Jeedimetla (V) is at 0.35 km; Neurest water body is Fox Sagar is at 1.78 km; Nearest RF is Dullapalle RF ist at 2.28 km from the industry.

Project Cost for proposed expansion is Rs. 4.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 42 Lakhs and Recurring Cost is Rs. 17 Lakhs/annum. Budget for CER is Rs. 4.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		T/Month	Kg/ Day
1	Esomeprazole Magnesium Trihydrate	5.00	166.67
2	Lansoprazole	2.00	66.67
3	Omeprazole	3.00	100.00
4	Pantoprazole Sodium	4.00	133.33
5	Rabeprazole Sodium	5.00	166.67
Total		**19.00**	**633.33**

Details of Utilities, Stacks & Air pollution control equipments after expansion:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 1 x 3.0 TPH	30	Cyclone separator followed by suitable pack of Bag filters
2	**DG Sets:** Proposed: 1 x 500 KVA	9.0	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide &Hydrogen Chloride are to be routed through Multi Stage Scrubber system.

CHAIRMAN, SEAC

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	3.11	0.00	3.11
2	Washings	0.00	1.00	1.00
3	Boilers make up	14.80	3.20	18.00
4	Cooling towers make up	18.47	3.03	21.50
5	Scrubbing system	0.50	0.00	0.50
6	Domestic	0.00	4.50	4.50
7	Gardening	0.00	1.00	1.00
	Total	**36.88**	**12.73**	**49.61**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment Method
1	Process	4.01	0.18	4.19	**HTDS:**HTDS effluents shall be sent to MEE system followed by Biological ETP. **LTDS:**LTDS effluents shall be treated in Biological ETP RO Plant. RO Rejects to MEE System and RO permeate to reuse. Condensate from MEE to reuse and MEE residue to ATFD.
2	Washings	0.00	1.00	1.00	
3	Boilers Blow down	0.00	3.00	3.00	
4	Cooling towers Bleed off	0.00	2.50	2.50	
5	Scrubbing system	0.50	0.00	0.50	
6	Domestic	0.00	4.00	4.00	
Total:		**4.51**	**10.68**	**15.19**	

Details of Solid Waste & Hazardous waste after expansion:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste (Process Residue)	398 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	6 Kg/Day	
3	Solvent Distillation Residue	84 Kg/Day	
4	Organic distillate from MEE Stripper	50 Ltrs/Day	
5	Inorganic Solid Waste	164 Kg/Day	Shall be sent to TSDF
6	MEE Salts	339 Kg/Day	
7	ETP Sludge	10 Kg/Day	
8	Used Oils	100 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container .iners	300 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
10	Used Lead Acid Batteries	2 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent Mixed Solvents	As generated	Disposed to cement plants for co-incineration/end-users
12	Ash from boiler	4200 Kg/Day	Shall be sent to Brick Manufacturers

The SEAC observed that the proponent has not clearly demarcated the proposed ZLD system and requirement of land / open area for treatment units proposed in the ZLD system. The proponent shall submit detailed layout plan indicating process, utilities, treatment units of ZLD system, greenbelt. The proponent shall also clearly submit the details of the existing production block with process equipments and proposed production block with process equipments.

CHAIRMAN, SEAC

Agenda Item No. 34	M/s. Basis Laboratories Pvt. Ltd., Sy. No. 904, Jangampally Village, Bhiknoor Mandal, Kamareddy District. - Environmental Clearance (Expansion) - Reg.
Proposal No.	SIA/TG/IND2/188782/2020 (EC)

The representative of the project proponent Sri N. Srinivas Rao; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

EC obtained on dt. 31.05.2015 from the MoE&F, GoI for the existing unit.

Submitted self Certified Compliance Report on the earlier EC conditions.

CFO issued on 17.05.2018 from TSPCB is valid upto 30.04.2023 and the unit is operating.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and S.O 3636(E), dt.15.10.2020 considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 20173.81 Sqm (5.0 acres), out of which Green area is 6859.0Sqm (34.0 %).

Nearest human habitation is Jangampalli (V) is at 1.15 km; Nearest water body is Jangampalli Cheruvu is at 1.66 km; Nearest RF is Talmadla RF is at 2.54 km from the industry.

Project Cost for proposed expansion is Rs. 10.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 64.0 Lakhs and Recurring Cost is Rs. 17 Lakhs/annum. Budget for CER is Rs. 10.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		TPM	Kg/ Day
1	Carglumic acid	0.50	16.67
2	Cetirizine dihydrochloride	10.00	333.33
3	Dabigatran Etexilate Mesylate	10.00	333.33
4	Dapagliflozin Propanediol Monohydrate	2.00	66.67
5	Deferasirox	1.00	33.33
6	Empagliflozin	2.00	66.67
7	Gliclazide	5.00	166.67
8	Levocetirizine dihydrochloride	5.00	166.67
9	Losartan Potassium	10.00	333.33
10	Oseltamivir Phosphate	10.00	333.33
11	Penciclovir	1.00	33.33
12	Rabeprazole Sodium	10.00	333.33
13	Raltegravir	2.00	66.67
14	Silodosin	0.50	16.67
15	Sitagliptin	2.00	66.67
16	Sofosbuvir	2.00	66.67
17	Telmisartan	10.00	333.33
18	Vildagliptin	3.00	100.00
Total (Any six products shall be manufactured at any given point of time)		**60.00**	**2000.00**

CHAIRMAN, SEAC

LIST OF BY-PRODUCTS & ITS QUANTITIES

S.No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	TPM
1	Levo Cetirizine Dihydrochloride	Tri ethyl amine hydrogen chloride	68.80	2.06
2	Losartan Potassium	Succinimide	108.80	3.26
		Trityl alcohol	248.80	7.46
		Sodium bromide	98.30	2.95
3	Oseltamivir Phosphate	Tert butyl chloride	97.00	2.91
4	Rabeprazole Sodium	Sodium acetate	193.30	5.80
		Acetic acid	141.40	4.24

Details of Utilities, Stacks & Air pollution control equipment's after expansion:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Existing: 1 x 3.0 TPH Proposed: 1 x 2.0 TPH	 30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1 lakh K.Cal/hr x 1 (Diesel fired)	11	Cyclone separator
3	**DG Sets:** Existing: 1 x 320 KVA Proposed: 1 x 320 KVA	--	Acoustic enclosure & Silencer

The **process emissions** containing Sulphur dioxide, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Boron Trifluoride & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Nitrogen&Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	17.83	0.00	17.83
2	Washings	0.00	2.00	2.00
3	Boiler make up	21.00	9.00	30.00
4	Cooling towers make up	46.80	9.20	56.00
5	Scrubbing system	5.00	0.00	5.00
6	DM Water Regeneration	2.00	0.00	2.00
7	Domestic	0.00	5.50	5.50
8	Gardening	0.00	11.00	11.00
	Total	**92.63**	**36.70**	**129.33**

Details of Effluent generation, treatment & disposal after expansion:

Unit	HTDS KLD	LTDS KLD	Effluent Generation in KLD	Treatment Method
Process	22.12	0.77	22.89	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
Washings	0.00	2.00	2.00	
Boiler Blow down	0.00	5.00	5.00	
Cooling towers Bleed off	0.00	6.00	6.00	
Scrubbing system	5.00	0.00	5.00	
DM Water Regeneration	2.00	0.00	2.00	
Domestic	0.00	4.50	4.50	
Total	**29.12**	**18.27**	**47.39**	

CHAIRMAN, SEAC

Details of Solid Waste after expansion:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste	2775 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	70 Kg/Day	
3	Solvent Distillation Residue	538 Kg/Day	
4	Organic distillate from MEE Stripper	590 Ltrs/Day	
5	Inorganic Solid Waste	836 Kg/Day	Shall be sent to TSDF
6	MEE Salts	2343 Kg/Day	
7	ETP Sludge	60 Kg/Day	
8	Used Oils	130 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
9	Detoxified Containers/ Container liners	600 No's / Month	After Detoxification shall be sent to SPCB authorized agencies
10	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
11	Spent Mixed Solvents	As generated	Disposed to cement plants for co-incineration/end-users.
12	Ash from boilers	5950 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 35	**M/s. NKR Biosciences Private Limited, Sy. No. 266/1, Chitojipally Village, Chegunta Mandal, Medak District. - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/190931/2021 (EC)**

The representative of the project proponent Sri N. Srinivas Rao: and Sri Y.V. Prasad of M/s Rightsource Industrial Solutions Pvt. Ltd., Hyderabad attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for establishment of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and S.O.3636(E), dt.15.10.2020 considered the project under B2 Category

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 40,468.6 Sq.m, out of which Green area is 14026.0 Sq.m (34.66 %).

Nearest human habitation is Chitojipalli (V) is at 1.14 km; Nearest water body is at 0.88 km; Nearest RF is Ibrahimpur RF is at 0.06 km from the industry.

Proposed Project Cost is Rs. 25.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 203 Lakhs and Recurring Cost is Rs. 30 Lakhs/annum. Budget for CER is Rs. 50 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

CHAIRMAN, SEAC

LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

S. No	Product Name	Quantity	
		TPM	Kg/ Day
1	Afatinib Dimaleate	2.00	66.67
2	Azacitidine	1.00	33.33
3	Bicalutamide	10.00	333.33
4	Capecitabine	10.00	333.33
5	Docetaxel	0.50	16.67
6	Favipiravir	10.00	333.33
7	Gefitinib	5.00	166.67
8	Gemcitabine Hydrochloride	5.00	166.67
9	Ibrutinib	3.00	100.00
10	Imatinib mesylate	2.00	66.67
11	Irinotecan hydrochloride	0.50	16.67
12	Lenalidomide	1.00	33.33
13	Lomustine	0.50	16.67
14	Lopinavir	5.00	166.67
15	Pazopanib Hydrochloride	2.00	66.67
16	Raltegravir	2.00	66.67
17	Ritonavir	2.00	66.67
18	Sofosbuvir	5.00	166.67
19	Topotecan Hydrochloride	0.10	3.33
Total (Any seven products shall be manufactured at any given point of time)		**50.00**	**1666.67**

LIST OF BY-PRODUCTS & ITS QUANTITIES

S.No	Name of the product	Name of the By-Product	Quantity	
			Kg/Day	TPM
1	Favipiravir	Phosphoric acid	326.70	9.80
		Potassium chloride	427.30	12.82
2	Lopinavir	Benzyl Alcohol	96.00	2.88
		Monosodium citrate	353.70	10.61
		Potassium chloride	153.50	4.61
3	Pazopanib hydrochloride	Ammonium sulfate	45.80	1.37
		Stannic chloride	121.70	3.65
4	Ritonavir	Sodium acetate	38.10	1.14
		Sodium phosphate	13.50	0.41

Details of Utilities, Stacks & Air pollution control equipment's:

S. No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boilers:** Proposed: 2.0 TPH x 1 & 3.0 TPH x 1	30 30	Cyclone separator followed by suitable pack of Bag filters
2	**Thermic fluid heater:** Proposed: 1,00,000 K.Cal/hrx 1 (Diesel fired)	11	Cyclone separator
3	**DG Sets:** Proposed: 2 x 320 KVA	--	Acoustic enclosure & Silencer

The process emissions containing Sulphur dioxide, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Dimethylamine & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Nitrogen & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

CHAIRMAN, SEAC

Details of Water requirement:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	28.53	0.00	28.53
2	Washings	0.00	2.00	2.00
3	Boilers make up	22.4	7.6	30.00
4	Cooling towers make up	64.00	6.0	70.00
5	Scrubbing system	5.50	0.00	5.50
6	Domestic	0.00	7.00	7.00
7	Gardening	0.00	21.00	21.00
	Total	**120.43**	**43.60**	**164.03**

Details of Effluent generation, treatment & disposal:

Unit	HTDS KLD	LTDS KLD	Effluent Generation in KLD	Treatment Method
Process	28.44	1.91	30.35	Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers.
Washings	0.00	2.00	2.00	
Boilers Blow down	0.00	5.00	5.00	
Cooling towers Bleed off	0.00	7.50	7.50	
Scrubbing system	5.50	0.00	5.50	
Domestic	0.00	6.00	6.00	
Total	**33.94**	**22.41**	**56.35**	

Details of Solid Waste & Hazardous Waste:

S. No	Name of the Hazardous Waste	Quantity	Disposal Method
1	Organic solid waste	3966 Kg/Day	Shall be sent to Cement Industries
2	Spent Carbon	101 Kg/Day	
3	Solvent Distillation Residue	763 Kg/Day	
4	Organic distillate from MEE Stripper	930 Ltrs/Day	
5	Inorganic Solid Waste	586 Kg/Day	Shall be sent to TSDF
6	MEE Salts	2252 Kg/Day	
7	ETP Sludge	100 Kg/Day	
8	Spent Mixed Solvents	As generated	Disposed to cement plants for co-incineration/end-users.
9	Used Oils	130 Ltrs/Annum	Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling
10	Detoxified Containers/ Container liners	600 No's / Month	After Detoxification shall be sent to SPCB authorized agencies.
11	Used Lead Acid Batteries	4 No's/ Annum	Send back to suppliers for buyback of New Batteries
12	Ash from boilers	5950 Kg/Day	Shall be sent to Brick Manufacturers

After detail discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC