MINUTES OF THE 84th MEETING OF STATE EXPERT APPRAISAL COMMITTEE, (SEAC), TELANGANA STATE HELD ON 25.09.2020, 11:00 A.M.

MINUTES OF THE 84th MEETING OF STATE EXPERT APPRISAL COMMITTEE (SEAC) HELD ON 25.09.2020 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 BLPG, 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.	Shri Ravindra Samaya Mantri H.No: 3-5-44/1, Flat No. 301, Areadia Apartments, Edengaden Road, Hyderabad- 500001. Ph:9491145160	Member
4.	Shri Suresh, B-106, Vertex prime, Nizampet Road, Kukatpalli, Hyderabad. Ph: 9177037785	Member
5.	Dr.Vemula Vinod Goud, H.No. 6-156, Sridurga Estates, Deepthisri Nagar, Madinaguda, Hyderabad-500049. Ph:9440386945	Member
6.	Dr.K.Shivakumar, Plot No. 328, Flat No: 302, Mchar Ninan, KPHB 6th phase, Kukatpally, Hyderabad-500072 Ph: 9951701067	Member
7.	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

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.

Minutes of the SEAC Meeting held on 25.09.2020

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 25.09.2020.

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

Minutes of the SEAC Meeting held on 25.09.2020

Agenda Item No. 01	**M/s. Synthecis Pharmaceutical Pvt. Ltd., Sy. Nos. 397(Part), 398(Part), 399(Part), 400(Part), Vellimnedu Village, Chityal Mandal, Nalgonda District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/161464/2020 (EC)**

The representative of the project proponent Sri R. Rajesh Kumar; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 8.09 acres, out of which Green area is 2.78 acres (34.3%).

Nearest human habitation is Gundranpally (V) @ 6.07 km; Nearest water body is Seasonal stream china vagu@5.7km; Nearest RF isChityal @ 6km from the industry.

Project Cost proposed is Rs.32 Crores. Budget for Environmental protection towards Capital Cost is Rs. 8.74 crores and Recurring Cost is Rs.9.5 crores. Budget for CER is Rs.65lakhs 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	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	RaltagrevirPottasium	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 on campaign basis	**8350**	**250.5**

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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 (out of which 1x16 TPH will be kept as standby)	35 m 30 m	Bag filter Bag filter
2	**DG Sets:** Proposed: 2 x 1010 kVA and 2 x 500 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heater** Proposed: 2 x 2 Lakh K.cal/hr	30 m	—

Process emissions containing Hydrogen chloride, Hydrogen bromide, Sulfur dioxide, NH_3 & Hydrogen Iodide are to be routed through Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen gas are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Oxygen are to be safely dispersed into the atmosphere through Flame arrestor.

Details of Water requirement after expansion:

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

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	208	--	208	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	Scrubber Effluent	12	--	12	
4	RO/DM Plant Rejects	15	--	15	
6	R&D	--	2	2	
7	Boiler Blow downs	--	10	10	
8	Cooling tower Blow downs	--	40	40	
9	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	12.5 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	98 KLD	Recovered within plant premises and reused
5	Mixed Solvent	12 KLD	Sent to authorized recovery units/Cement plants for co-incineration
6	Stripper Distillate	4.6 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	760 Kg/day	
8	Inorganic Residue	1.2 TPD	

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9	Catalyst	272 Kg/day	Sent to TSDF
10	Hyflow	120.8 Kg/day	
11	Evaporation salts	10.8 TPD	
12	ETP Sludge	3.2 TPD	Sent to TSDF/ Cement plants for co-incineration
13	Detoxified containers	700 No.s/Yr	Sold to authorized vendors
14	Waste oil	5 KLPA	Sent to Authorized Recyclers
15	Used batteries	65 No.s/Yr	

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

Agenda Item No. 02	**M/s. Genviq Life Sciences Pvt. Ltd. Survey No. 400 (Part) and 401 (Part), Velimineda Village, Chityal Mandal, Nalgonda District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/161403/2020 (EC)**

The representative of the project proponent Sri R. Rajesh Kumar; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 6.39acres, out of which Green area is 2.15 acres (33.6%).

Nearest human habitation is Gundrampally (V) @ 6.24 km; Nearest water body is Seasonal stream china vagu@6km; Nearest RF isChityal @ 5.7km from the industry.

Project Cost proposed is Rs.25 Crores. Budget for Environmental protection towards Capital Cost is Rs. 7.52 crores and Recurring Cost is Rs.9.08 crores. Budget for CER is Rs.50 lakhs in first 5 years.

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

S.No	Name of Product	Capacity	
		Kg/Day	TPM
1	Itraconazole	300	9
2	Loratadine	150	4.5
3	Olmesartan	80	2.4
4	Montelukast Na	60	1.8
5	Furosemide	500	15
6	Folic acid	300	9
7	Trazadone Hydrochloride	700	21
8	Levo Cetirizine HCl	80	2.4
9	Moxifloxacin Hydrochloride	90	2.7
10	Ciproloxacin	60	1.8
11	Norfloxacin	50	1.5
12	Enrofloxacin	1000	30
13	Levofloxacin	500	15
14	Levosulpride	112	3.36
15	Gliclazide	300	9
16	Labetalol	60	1.8
17	Darunavir	200	6
18	Domperidone	500	15

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19	Asenapine	50	1.5
20	Bivalirudm	1.5	0.045
21	Diacerein	75	2.25
22	Ranolazine	680	20.4
23	Metformin	3000	90
24	R & D and Validation Products	5	0.15
	Total Worst Case 15 Products	**8412**	**252.4**

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

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 10 TPH 1 x 6 TPH (Standby)	 35 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA & 2 x 500 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heater** Proposed: 2 x 2 Lakh K.cal/hr	30 m	--

Process emissions containing Ammonia, hydrogen chloride, hydrogen bromide and sulphur dioxide are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Nitrogen is to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is to be safely dispersed into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	170		170
2	Washings	10		10
3	R&D	2		2
4	Scrubber	10		10
5	Boiler Feed	50	20	70
6	Cooling Tower	40	220	260
7	RO/DM Rejects	15		15
8	Domestic	25		25
9	Gardening	15		15
	Total water requirement	**337**	**240**	**577**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	181.8	--	181.8	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	Scrubber Effluent	10	--	10	
4	RO/DM Plant Rejects	15	--	15	
6	R&D	--	2	2	
7	Boiler Blow downs	--	8	8	
8	Cooling tower Blow downs	--	32	32	
9	Domestic	--	20	20	
Total effluent Quantity		**216.8**	**62**	**278.8**	

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Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	7.8 TPD	Sold to Brick manufactures and cement plants
2	Organic residue	5.1 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	3.6 TPD	
4	Spent Solvent	54.2 KLD	Recovered within plant premises and reused
5	Mixed Solvent	5.5 KLD	Sent to authorized recovery units/Cement plants for co-incineration
6	Stripper Distillate	2.2 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	249.4 Kg/day	
8	Inorganic Residue	1.15 TPD	Sent to TSDF
9	Catalyst	10.7 Kg/day	
10	Hyflow	22.6 Kg/day	
11	Evaporation salts	8.4 TPD	
12	ETP Sludge	1.48 TPD	Sent to TSDF/ Cement plants for co-incineration
13	Detoxified containers	500 No.s/Yr	Sent to Authorized Recyclers
14	Waste oil	3.32 KLPA	
15	Used batteries	40 No.s/Yr	

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

Agenda Item No. 03	**M/s. SMS Lifesciences India Limited - Unit I, Survey No. 180/2 & 180/6, IDA Kazipally, Jinnaram Mandal, Sangareddy District - Environmental Clearance (Expansion) - Reg.**
Proposal No.	**SIA/TG/IND2/161930/2020 (EC)**

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

EC order dt.07.07.2005 of MoE&F, GoI, New Delhi for manufacturing of Bulk Drugs.

Latest CFO issued on 29.10.2018 valid upto 30.09.2023 issued by TSPCB.

Submitted self-compliance Report of EC conditions.

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 after proposed Expansion as follows:

Total area is 11.85 acres, out of which Green area is 3.95 acres (33%).

Nearest human habitation is Sambhupur (V) @ 1.5km; Nearest RF is Kistaipalli @ 0.54 km.

Project Cost for proposed expansion is Rs.26.15 Crores. Budget for Environmental protection towards Capital Cost is Rs. 4.58 crores for Phase I and Rs. 6.38 crores for Phase II while recurring costs for Phase I is Rs. 6 crores/year and Phase II is Rs. 6.84 crores/year. Budget for CER is Rs.27.5lakhs in first 5 years.

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

S.No	Name of Product	Capacity (Kg/day)	
		Phase I*	After Phase II
	REGULAR PRODUCTS		
1	Ranitidine Hydrochloride - API	2500	6000
2	Ranitidine Intermediates - NMSM	333	666
3	Ranitidine Intermediates - CYSTOFER	200	400
4	Famotidine API	400	600
5	Famotidine Intermediates - IFM	300	400
6	Famotidine Intermediates - FM-II	133	283
7	Allopurinol - API	200	500
8	Abacavir Intermediate (AFC) or (FADCB)	400	700
	Total – I	**4466**	**9549**
	CAMPAIGN PRODUCTS		
1	Sildenafil Citrate API	200	300
2	Sildenafil Intermediates - SLC BASE	33	66
3	Imatinib Intermediate (PATA III)	50	100
4	Imatinib Intermediate (OTD IV)	50	100
5	Ezitimibe Intermediate - EZT IV	100	60
6	Perindopril Intermediate (CEA II)	30	60
7	Rizatripran Intermediate - RTZ III	30	60
8	Eletriptan Intermediate (ETN III)	20	40
9	Eletriptan Intermediate (ETN SC II)	30	60
10	Zolmitriptan Intermediate ZM-II	10	20
11	Darnavir Intermediate DRU- IV/DAV II A	40	60
12	Ketaconazole Intermediate	100	200
13	Itraconazole Intermediate IT VIII	30	60
14	Itraconazole Intermediate IT IB	30	60
15	Imidapril HCl API	20	10
16	Sibutramine Hydrochloride API	33	66
17	Donuperidone API	50	200
18	Valsartan API	300	500
19	Losartan Potassium API	300	600
20	Sitagliptin Phosphate / HCl API	100	200
21	Tranexamic Acid API	300	200
22	Acyclovir API	125	125
23	Dapsone API	33	66
24	Peramivir API	33	66
25	Ropivacaine API	5	10
26	Fosphenytoin API	3	6
27	Favipiravir API	200	200
28	Albendazole API	200	500
29	Metropolol API	100	300
30	Folic Acid API	100	150
31	Divalproex Sodium API	600	200
32	Mirtazapine Intermediate	100	150
33	Voriconazole Intermediate	100	200
34	Sulfamide Intermediate	200	400
35	Febuxostat Intermediate	100	100
36	Torsemide intermediate- III	100	100
	Total -II: Worst case 10 Products on Campaign basis	**2525**	
	Total - Worst case 12 Products on Campaign basis		**3800**
37	R&D Products	17	34
	Total (Regular+Campaign+R&D Products)	**7008**	**13383**

** Including existing capacity*

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List of By Products after Expansion

S. No	Name of By-Product	Name of Product	Quantity (Kg/day)	
			Phase I	Phase II*
1	Potassium Sulfate	Ranitidine HCl	2000	4800
2	Potassium Sulfate	N-methyl- 1-(methylthio)- 2-nitroetheneamine (NMSM)	542	1084
3	Sodium Nitrate	Abacavir Intermediate	188	329
4	Sodium Chloride		207	362
5	Sodium Bromide	Albendazole	113	283
6	Sulfuric Acid + HCl Solution	Famotidine	7826	11739
7	Sulfuric Acid + HCl Solution	Famotidine (FM III)	3817	5089
8	Potassium Chloride	Mirtazapinel Intermediate	30	46
9	Aluminium Hydroxide	Mirtazapinel Intermediate	28	41
10	Iron Sludge	Sildenafil Citrate API	2321	3482
11	Chlorosulphonic Acid Solution		3406	5108
12	Iron Sludge	Sildenafil Intermediates - SLC BASE	275	550
13	Chlorosulphonic Acid Solution		1238	2476
14	Spent Acetic Acid (20%)	(3R, 3aS, 6aR)-hexahydrofuro-[2,3-b]-furan-3-yl-4- nitrophenyl carbonate (DarunaviurInt)	275	413
15	Ammonium Chloride	Sulfamide Intermediate	320	640
16	Phosporochloridic Acid	Voriconazole Intermediate-V	140	280
17	Phosphorous oxychloride	Torsemide Intermediate- III	104	104

** Including existing capacity*

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 2 x 8 TPH Proposed: **Phase I:** 1 x 8 TPH (Standby) **Phase II:** 1 x 12 TPH	 30 m 30m 40m	Bag Filter & multicyclone separator Bag Filter Bag Filter
2	**DG Sets:** Existing: 1 x 625 kVA & 3 x 320 kVA Proposed: Phase I: 2 x 750 kVA & 1 x 500 kVA Phase II: 1 x 750 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heaters** Proposed Phase I: 1 x 2 Lac k.cal/hr Phase II: 1 x 2 Lac k.cal/hr	 15m 15m	 --

The process emissions containing Hydrogen Chloride, Sulphur Dioxide, Hydrogen Bromide, Isobutylene & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen is to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is to be safely dispersed into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)		Recycled (KLD)		Total (KLD)	
		Phase I*	PhaseII**	Phase I*	Phase II**	Phase I*	Phase II**
1	Process	62.1	116.2			62.1	116.2
2	Washings	3	20			3	20
3	Scrubber	3	10			3	10
4	Boiler Feed	85	155	15	50	100	205
5	Cooling Tower	90	185	90	190	180	375
6	RO/DM Rejects	3	38			3	38
7	Domestic	10	15			10	15
8	Gardening	20	20			20	20
	Total water requirement	**276**	**559.2**	**105**	**240**	**381**	**799.2**

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Details of Effluent generation, treatment & disposal after expansion:

S. No	Effluent generated from	HTDS (KLD)		LTDS (KLD)		Total (KLD)		Treatment & Disposal
		Phase I*	Phase II**	Phase I*	Phase II**	Phase I*	Phase II**	
1	Process	69.6	131.8			69.6	131.8	*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	3	20			3	20	
3	Scrubber	3	10			3	10	
4	RO/DM Plant Rejects	3	38			3	38	
5	Boiler Blow downs			10	17	10	17	
6	Cooling tower Blow downs			21	32	21	32	
7	Domestic			9	12.5	9	12.5	
Total effluent		**78.6**	**199.8**	**40**	**61.5**	**118.6**	**261.3**	

Including existing* * Including Phase I*

Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	8.44 TPD	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	7.86 TPD	
3	Spent Carbon	433.2 Kg/day	
4	Inorganic Residue	1245 Kg/day	Sent to TSDF
5	Evaporation Salts	13.42 TPD	
6	ETP Sludge	2.64 TPD	
7	Catalyst	439 Kg/day	
8	Hyflow	62.8 Kg/day	
9	Boiler Ash	10.9 TPD	Sent to brick manufacturers
10	a) Detoxified Container / Liners drums b) HDPE Carboys/ Drums	5000 No. s/ month	Disposed to TSPCB Authorized agencies after complete detoxification
11	PP Bags	80 Kg/ Month	Sent to authorized agencies after detoxification
12	Spent Solvents	115 KLD	Recovered within plant premises and reused
13	Spent Mixed solvents	74 KLD	Authorized recyclers
14	Stripper Distillate	5.9 KLD	Sent to cement plants for co-incineration/TSDF
15	Waste oils & Grease	7.15 Kl/year	Sent to authorized agencies
16	Used Lead acid Batteries	110 No.s/ Year	Sent to suppliers on buy back basis
17	Insulation Materials	5 TPM	Sent to TSDF
18	Biomedical Waste	80 Kg/ month	Sent to authorized CBMWTF

Including existing *** Including Phase I*

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
ii) Project cost

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iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per FR-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Smt. T. Vijya Laxmi
2. Sri Ch. Krishna Reddy

Agenda Item No. 04	**M/s. SMS Lifesciences India Limited – Unit IV, Plot No. 66/B, Phase I, IDA Jeedimetla, Quthbullapur Mandal, Medchal District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/162078/2020 (EC)**

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

EC obtained vide order dt.25.01.2006 as per OM dt.12.04.2006 of MoE&F, GoI for manufacturing of Bulk Drugs.

The proponent submitted latest CFO issued by TSPCB vide order dt.10.04.2017 valid upto 31.03.2021.

The proponent submitted Self-compliance Report on condtions of EC & CFO

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 after proposed Expansion as follows:

Total area is 0.94 acres. out of which Green area is 0.32acres (34.03%).

Nearest human habitation is Shapurnagar village @ 0.38km; Nearest waterbody is a seasonal stream Kottacheruvu @ 3.6 km: Nearest RF is Dulapalle @1.9 km.

Project Cost for proposed expansion is Rs.4Crores. Budget for Environmental protection towards Capital Cost is Rs. 1.37 crores while recurring costs for is Rs. 1.26 crores/year. Budget for CER is Rs.4lakhs in first 5 years.

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

CHAIRMAN, SEAC

Products:

S. No	Name of Product	Capacity(Kg/day)
1	Famotidine API	100
2	Famotidine Intermediates - FM- III	100
3	Famotidine Intermediates - FM-II	200
4	Sildenafil Intermediates - SLC BASE	150
5	Itraconazole Intermediate IT VIII	75
6	Itraconazole Intermediate IT 1B	100
7	Sibutramine Hydrochloride API	150
8	Domperidone API	90
9	Sulfamide Intermediate	100
10	1,3Dichlom acetone	300
11	Pantoprazole Intermediate (Benzimidazole)	100
12	Itraconazole	100
13	R&D Products	10
Total		**1000**

List of By Products after Expansion

S.No	Name of By-Product	Name of the Product	Quantity (Kg/day)
1	Sulfuric Acid + HCl Solution	Famotidine	1956.5
2	Sulfuric Acid + HCl Solution	Famotidine (FM III)	1272.4
3	Iron Sludge	Sildenafil Intermediates - SLC BASE	1249.6
4	Chlorosulphonic Acid Solution	Sildenafil Intermediates - SLC BASE	5627.6
5	Ammonium Chloride	Sulfamide Intermediate	160
6	Cromium sulphate Solution	1,3Dichlom acetone	4410.5

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 2 TPH	30m	Bagfilter & multicyclone Separator
2	**DG Sets:** Existing: 1 x 125 kVA (Standby) Proposed: 1 x 380 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heaters** Proposed 1 x 2 Lac k.cal	15m	--

The process emissions containing 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 dispersed into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	8.8		8.8
2	Washings	2		2
3	Scrubber	2		2
4	Boiler Feed	20	4	24
5	Cooling Tower	25	21	46
6	RO/DM Rejects	2		2
7	Domestic	2		2
8	Gardening	2		2
	Total water requirement	**64**	**25**	**89**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	8.7		8.7	*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	2		2	
3	Scrubber Effluent	2		2	
4	RO/DM Plant Rejects	2		2	
5	Boiler Blow downs		2.5	2.5	
6	Cooling tower Blow downs		8	8	
7	Domestic		1.8	1.8	
Total effluent Quantity		**14.7**	**12.3**	**27**	

Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	972 Kg/day	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	675.2 Kg/day	
3	Spent Carbon	61.3 Kg/day	
4	Inorganic Residue	0.063 TPD	Sent to TSDF
5	Evaporation Salts	831.3 Kg/day	
6	ETP Sludge	0.46 TPD	
7	Catalyst	32.8 Kg/day	
8	Hyflow	3.75 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	312.5 KLD	Recovered within plant premises and reused
13	Spent Mixed solvents	7.8 KLD	Authorized recyclers
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 detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings

CHAIRMAN, SEAC

xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Smt. T. Vijaya Laxmi
2. Sri Ch. Krishna Reddy

Agenda Item No. 05	**M/s. Hetero Drugs Ltd., Unit IV, Sy.No. 599 (P), 629 (P), 630 (P) & 631, Bonthapally IDA, Bonthapally Village, Gummadidala Mandal, Sangareddy District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/162487/2020 (EC)**

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

The proponent obtained EC vide order dt.10.11.2015 for the expansion of Bulk Drug manufacturing unit.

The proponent submitted latest CFO dt.29.01.2019 valid upto 31.10.2021.

The proponent submitted self-compliance Report on EC & CFO conditions.

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 after proposed Expansion as follows:

Total area is 54 acres, out of which Green area is 17.82acres (33.38%).

Nearest human habitation is Bonthapally village @ 15 m; Nearest RF is Jinnaram @3.85 km.

Project Cost for proposed expansion is Rs.60Crores. Budget for Environmental protection towards Capital Cost is Rs. 28.67 crores while recurring costs for is Rs. 31.25 crores/year. Budget for CER is Rs.65lakhs 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	Amlodipine Besylate	200
2	Aprepitant	1.67
3	Clopidogrel Hydrogen Sulfate	200
4	Domperidone	100
5	Dorzolamide HCl	6.67
6	Benzoic acid, 3-[[[(2R,4R)-4-mercapto-2-pyrrolidinyl] carbonyl] amino] terbutyl carbonate (Ertapenem Intermediate)	6.67
7	Esomeprazole Magnesium	65.8
8	Famciclovir	50

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S. No	Name of the Product	Capacity (Kg/day)
9	Fenofibrate	150
10	Glimepiride	100
11	Indinavir	30
12	Lisinopril Dihydrate	300
13	Lopinavir	32.90
14	Meropenem (Intermediate)	9.73
15	Montelukast Sodium	100
16	Moxifloxacin Hydrochloride	115.80
17	Nebivolol HCl	100
18	Olanzapine	13.33
19	Pregabalin	100
20	Ranolazine	200
21	Ritonavir	16.67
22	Sildenafil Citrate	150
23	Terazosin HCl Dihydrate	16.4
24	Topiramate	500
25	Tramadol HCl	176
26	Valacyclovir Hydrochloride Monohydrate	16.23
27	Z-L-Valine -N-carboxyanhydride (Valganciclovir HCl Intermediate)	66.37
28	R & D & validation of Products	100
29	Cetirizine hcl	76.67
30	Droxidopa intermediate	100
31	Enalapril maleate	10
32	Febuxostat	23.33
33	Fluconazole	200
34	Fosaprepitant	10
35	Pantoprazole sodium	50
36	Rabeprazole sodium	200
37	Raltegravir potassium	33.33
38	Solifinacin succinate	10
39	Tadalafil	16.67
40	(1R,4S)-Acetamide (DTA)	166.67
41	N^2-(3-Aminopropyl-6,7-dimethoxy-N^2-methyl-2,4-quinazolinediamine (Alfuzosin Intermediate) (ADQ)	33.33
42	3-(3-Trifluoromethyl) phenyl) propanal (Cinacalcet Intermediate) (TPP)	16.67
43	(2R,5R)-1,6 diphenylhexane-2.5-diamine Hydrochloride salt (Cobicistat intermediate) (CBCDPH)	15
44	1-((2-Isopropylthiazol-4-yl) methyl-1-methyl-3(S)-(2-oxo tetrahydrofuran-3-yl) urea (Cobicistat Intermediate) (ITU)	15
45	2-Hydroxy-3-aminobiphenyl-3-carboxylic acid (Eltrombopag Intermediate) (AHB)	16.67
46	6-(Benzyloxy)-9-(1S,3R,4S)-4-(benzyloxy)-3-(benzyloxymethyl)-2-methylenecyclopentyl)-N-((4-methoxyphenyl) diphenyl methyl-9H-purin-2-amine (Entacavir Intermediate) (BMD)	15
47	2-(R)-3- (diisopropylamino)-1-phenylpropyl)-4-hydroxymethyl) phenol (Fesoterodine Intermediate) (DPH)	16.67
48	9-(4-Hydroxybutyl)-N-(2,2,2-trifluoroethyl)-9H-fluorene-9-carboxamide (Lomitapide Intermediate) (BTF)	16.67
49	4-(difluoromethoxy)-3-hydroxybenzaldehyde (Roflumilist Intermediate) (DMB))	15.00
50	(R)-3-(5-(2-aminopropyl)-7-cyanoindolin-1-yl) propyl benzoate tartrate) (Silodosin Intermediate) (ACT)	16.67
51	2-(2-(2,2,2-trifluoroethoxy) phenoxy) ethylmethane sulfonate (Silodosin Intermediate) (TPS)	16.67
52	2-methoxy-5-methoxy-N, N-bis(1-Methylethyl)-betaphenyl benzene propanamide (Tolteradine Intermediate (MBP))	16.67

CHAIRMAN, SEAC

S. No	Name of the Product	Capacity (Kg/day)
53	7-chloro-1-(2-methyl-4-nitrobenzoyl)-5-oxo-2,3,4,5-tetrahydro-1H-benzazepine (Tolvaptan Intermediate) (CCT)	16.67
54	(+/-)-[1S*(S*)]- 6-Fluori-3,4-Dihydro-2-Oxiranyl-2H-1-Benzopyran (Intermediate of Nebivolol Hcl)	1533.33
55	(±)-[1S*(R*)]-6-Fluoro-3,4-Dihydro-Alfa-[[(Phenylmethyl)Amino] Methyl]-2H-Methanol (Intermediate of Nebivolol HCl)	1533.33
56	(4S,6S)-4-(Acetylamino)-5,6-Dihydro-6-Methyl-4H-Thieno[2,3-B] Thiooyran-2-Sulfonamide-7,7-Dioxide (Int of DorzalamideHCl)	1333.33
57	2-(2-Nitroanilino)-5-Methylthiophene-3-Carbonitrile (Intermediate of Olanzapine)	1333.33
58	2,3:4,5 BIS-O-(1Methylehylidine) B. Dfructopyranose (Intermediate of Topiramate)	1600.00
59	N2-(1-(S)-Ethoxy carbonyl-3-phenyl propyl-N6-Trifluoro Acetyl -L-Lysine (Intermediate of Lisinopril)	1600
60	4-(2-(3-Ethyl-4-Methyl-2-Oxo-3-Pyrroline-1-Carboxamido) Ethyl) Benzene Sulfonamide (Intermediate of Glimepiride)	1000
61	(S)-3-(Benzyloxycarbonyl)-4-Isopropyl-2,5-Oxazolidine Dione (Intermediate of Valagancyclovir)	1200
62	Carbobenzyloxy -L-Valine (Intermediate of ValacyclovirHcl)	1600
63	Triethyl-3-BromoPropane-1,1,1-Tri carboxylate (Intermediate of Famciclovir)	1000
64	1-Phenyl-3,4 Dihydro Iso Quinoline (Intermediate of Solfinacin Succinate)	33.33
65	2.8 Diazo Bi Cyclononane (Intermediate of Moxifloxacin)	1600
66	3,4-Bis (benzyloxy) benzaldehyde (Intermediate of Doxidropa)	1500
67	Ni complex of (R, E)-2-(((2-(1-Benzyl pyrrolidine-2-carboxamido) -5-Chlorophenyl) (Phenyl) methylene) Amino acetic acid (Intermediate of Doxidropa)	333.33
68	N-(4-Fluorobenzyl)-5-Hydroxy-1-Methyl-2-{[(5-Methyl-1,3,4-Oxadiazol-2-Yl) Carbonyl] Amino) -2-Propanyl)-6-Oxo-1,6-Dihydro-4-Pyrimidinecarboxamide (Raltegravir Intermediate)	833.33
69	[2-(-Phthilimido ethoxy) Methyl-3-Carbocthoxy-1-(Chlorophenyl)-5-Carbomethoxy-6-Methyl-1,4-Dihydropyridine (Intermediate of Amlodipine Besylate)	1000
70	6,7-Dimethoxy-3,4-Dihdroquinoline Hydrochloride (DQH)	800
71	Alfuzosin HCl	16.67
72	Verapamil	16.67
73	Itraconazole	600
74	1-Fluro Napthalene	800
75	Tetra hydro furic acid	936.67
76	Bisoprolol	940
77	4-(Bromomethyl) quinoline-2-(1H)-one	1565
78	Diethyl 2-(4-chloro benzamido) malonate	1533
79	10 methoxy imino stilbene	1200
80	Keterolac	1500
81	Prazosin	1600
	Total (Worst case for 24 products)	
	Total (Worst case for 40 products on campaign basis)	33333
	Co – Generation Power Plant	2 x 2 MW

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 20 TPH, 1 x 10 TPH, 1 x 3 TPH (Standby) Proposed: 1 x 20 TPH 1 x 10 TPH (Standby)	 40 m 30 m 25m 40m 30m	Bag Filter & Multicyclone separator

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S.No.	Utility	Stack Height (mt)	APCE
2	**DG Sets:** Existing: 2 x 1165 kVA, 2 x 500 kVA, 1 x 320 KVA Proposed: 2 x 1500 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heaters** Proposed: 2 x 2 Lac k.cal	15m	--

The process emissions containing Hydrogen Chloride, Sulphur Dioxide & Ammonia, are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen is to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is to be safely dispersed into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	389.7		389.7
2	Washings	20		20
3	Scrubber	10		10
4	Boiler Feed	200	100	300
5	Cooling Tower	265	625	890
6	RO/DM Rejects	120		120
7	Domestic	50		50
8	Gardening	20		20
	Total water requirement	**1074.7**	**735**	**1809.7**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	418.9		418.9	*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	20		20	
3	Scrubber Effluent	20		20	
4	RO/DM Plant Rejects	120		120	
5	Boiler Blow downs		30	30	
6	Cooling tower Blow downs		115	115	
7	Domestic		40	40	
Total effluent Quantity		**578.9**	**185**	**763.9**	

Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Treatment/Disposal
1	Ash from Boiler	19.52 TPD	Sold to Brick manufactures and cement plants
2	Organic residue	27.2 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	8.8 TPD	Sent to TSDF/Cement Industries
4	Spent Solvent	248 KLD	Recovered within plant premises and reused
5	Mixed Solvent	106.5 KLD	Sent to authorized recovery units/Cement plants for co-incineration
6	Stripper Distillate	5.2 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	615 Kg/day	
8	Hyflow and Catalyst	612 Kg/day	Sent to TSDF/ Manufacturers / Suppliers / Authorized agencies

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S. No	Description	Quantity	Mode of Treatment/Disposal
9	Inorganic Residue	2.22 TPD	Sent to TSDF
10	Evaporation salts	21.26 TPD	
11	ETP Sludge	9.23 TPD	
12	Detoxified containers	18000 No.s/Yr	Sold to authorized vendors
13	Waste oil	2600 Lr/Month	Sent to Authorized Recyclers
14	Used batteries	85 No.s/Yr	

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Sri Shiva Kumar
2. Sri R.S. Mantri
3. Sri Ch. Krishna Reddy

Agenda Item No. 06	**M/s. Selmar Lab Pvt. Ltd., Unit I, Survey No. 10, IDA Gaddapotharam, Jinnaram Mandal, Sangareddy District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/162600/2020 (EC)**

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

The proponet obtained EC vide order dt.21.06.2005 from MoE&F, GoI for manufacturing of Bulk Drugs.

The proponent submitted latest CFO dt. 03.01.2020 valid upto 31.10.2020.

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 proponent submitted self-compliance report of EC & CFO conditions.

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 3.5 acres, out of which Green area is 1.2acres (34.28%).

CHAIRMAN, SEAC

Nearest human habitation is Alinagar village @ 1 km; Nearest RF isKistaipalli@ 0.45km.

Project Cost for proposed expansion is Rs.25Crores. Budget for Environmental protection towards Capital Cost is Rs. 7.8 crores while recurring costs for is Rs. 6.42 crores/year. Budget for CER is Rs.30lakhs 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	
		Kg/day	TPM
1	1-Hydroxybenzotriazolehydrate (HBTH).	433.3	13
2	4-Dimethyl Aminopyridine (DMAP).	856.7	25.7
3	Abiraterone Acetate	3.3	0.1
4	Albendazole	1000	30
5	Amlodipine	50	1.5
6	Bicalutamide (Form-H1)	3.3	0.1
7	Capecitabine	3.3	0.1
8	Carboplatin	0.7	0.02
9	Cisaplatin	3.3	0.1
10	Clopidogrel Form-II	33.3	1
11	Docetaxel Try Hydrate	0.7	0.02
12	Dorzolamide	10	0.3
13	Erlotinib HCl	1.7	0.1
14	Gefitinib	1.7	0.1
15	Gemcitabine HCl	0.8	0.03
16	Glimepiride	16.7	0.5
17	Imatinib Mesylate (Form β)	3.3	0.1
18	Itraconazole	33.3	1
19	Letrozole	60.0	1.8
20	Levofloxacin	16.7	0.5
21	Lisinopril	16.7	0.5
22	Oxaliplatin	0.3	0.01
23	Pantoprazole Na	16.7	0.5
24	Reloxefine HCl	50	1.5
25	Renolazine	33.3	1
26	Rilpivirine	6.7	0.2
27	Sertraline HCl	33.3	1
28	Solifenacin	3.3	0.1
29	Temzolomide	33.3	1
30	Tetrabutyl Ammonium Bromide (TBAB)	3333.3	100
	Total (Worst case for 15 Products)	**6000**	**180**

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 4 TPH (Standby) Proposed: 2 x 6 TPH	25 m 30 m	Bag Filter Bag Filter
2	**DG Sets:** Existing: 1 x 500 kVA (Standby) Proposed: 1 x 1500 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heaters** Proposed: 1 x 2 Lac k.cal	15m	--

CHAIRMAN, SEAC

The process emissions containing Sulphur Dioxide, Hydrogen Bromide & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Oxygen is to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is to be safely dispersed into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	55		55
2	Washings	5		5
3	Scrubber	3		3
4	Boiler Feed	60	20	80
5	Cooling Tower	140	100	240
6	RO/DM Rejects	15		15
7	Domestic	10		10
8	Gardening	5		5
	Total water requirement	**293**	**120**	**413**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	60		60	*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 Effluent	3		3	
4	RO/DM Plant Rejects	15		15	
5	Boiler Blow downs		7	7	
6	Cooling tower Blow downs		32	32	
7	Domestic		9	9	
Total effluent Quantity		**83**	**48**	**131**	

Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	4 TPD	Sold to Brick manufactores and cement plants
2	Organic residue	3.6 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	4.98 TPD	
4	Spent Solvent	70.5 KLD	Recovered within plant premises and reused
5	Mixed Solvent	30.5 KLD	Sent to authorized recovery units/Cement plants for co-incineration
6	Stripper Distillate	408 Lts/day	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	112.3 Kg/day	
8	Inorganic Residue	11.4 TPD	Sent to TSDF
9	Evaporation salts	4.57 TPD	
10	ETP Sludge	1.57 TPM	
11	Detoxified containers	2000 TPM No. s/Yr.	Sold to authorized vendors
12	Waste oil	100 Lt/month	Sent to Authorized Recyclers
13	Used batteries	40 No. s/Yr.	

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification

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iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Sri Shiva Kumar
2. Sri R.S. Mantri
3. Sri Ch. Krishna Reddy

Agenda Item No. 07	**M/s. Aurore Pharmaceuticals Pvt. Ltd. (APPL) Unit – I, Plot No's 35, 36, 38, 39, 40, 49, 50 and 51, Phase IV, IDA Jeedimetla, Quthbullapur Mandal, Medchal District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/162738/2020 (EC)**

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

Formerly M/s. Mylan Laboratories Ltd., Unit-3 & Unit-4 obtained EC dt.07.07.2005 & EC for change of product mix dt.28.08.2007 of MoE&F, GoI.

Submit copy of Self-certified compliance report for the conditions stipulated in EC dated 07.07.2005.

The proponent obtained latest CFO dt.10.03.2017 valid upto 15.02.2022.

The proponent submitted certified compliance report dt. 27.07.2016 of Regional office, MoE&F, Chennai on EC conditions.

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 (F), 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 10.8 acres, out of which Green area is 3.65acres (34%).

Nearest human habitation is Jeedimetla village @ 0.5 km; Nearest RF isDulapalle @1km.

Project Cost for proposed expansion is Rs.60Crores. Budget for Environmental protection towards Capital Cost is Rs. 9.18 crores while recurring costs for is Rs. 6.8 crores/year. Budget for CER is Rs.60lakhs in first 5 years.

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

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Manufacturing Capacity– After Expansion

S.No	Product Name	Capacity (TPM)
1	Celecoxib	17
2	Citalopram hydrobromide	18
3	Armodafinil	12
4	Modafinil	12
5	Emtricitabine	10
6	Levofloxacin	16
7	Escitalopram	12
8	Mirtazapine Hemihydrate	12.4
9	Esomeprazole	13
10	Ciprofloxacin HCl base	10.15
11	Ciprofloxacin Lactate	10.15
12	Venlafaxine	10.5
13	Zolpidem	10.05
14	Aripiprazole	10.1
15	Eszopiclone	10.02
16	Itraconazole	10.2
17	Olanzapine	10.15
18	Sibutramine Hydrochloride	0.1
19	Rilpivirine Hydrochloride	0.05
20	Candesartan Cilexetil	0.15
21	Carvedilol	0.35
22	Tadalafil	10.2
23	Telmisartan	10.15
24	Gabapentin	11
25	Atorvastatin Calcium	10.2
26	Pantoprazole	10.2
27	Quetiapine	0.5
28	Simvastatin	0.25
29	Irbesartan.	0.32
30	Gatifloxacin	0.1
31	Moxifloxacin	10.1
32	Risperidone	0.1
33	Valsartan	10.05
34	Sertraline	0.4
35	Montelukast	10.6
36	Ciprofloxacin hydrochloride	10.1
37	Rabeprazole	0.05
38	Norfloxacin	0.1
39	Efavirenz	10.1
40	Duloxetine hydrochloride	0.02
41	Paroxetine Hydrochloride	0.01
42	Valganciclovir	0.01
43	Zonisamide	0.05
44	Darifenacin	0.05
45	Rosiglitazone	0.05
46	Latanoprost	0.02
47	Vardenafil	0.05
48	Validation Products	0.85
Total		300

List of By-Product– After Expansion

S.No	Name of the Product	Stage	Name of By Product	Quantity (Kg/day)
1	Escitalopram	II	Ammonium Phosphate	177
2	Quetiapine	I	Piperazine	240.7
3	Ciprofloxacin HCl	II	Piperazine	1373.6
4	Norfloxacin	IV	Piperazine	4.2
5	Latanoprost	I	Spent Phosphosate salts	0.2
6	Citalopram HBr	III	Spent Phosphosate salts	3564.45

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

S.No	Utility	Stack Height (mt)	APCE
1	**Boilers:**		
	Existing: 1 x 4 TPH,	30 m	Bag Filter
	1 x 2 TPH #,	30 m	Bag Filter
	1 x 4 TPH**	30 m	Bag Filter
	Proposed: 2 x 10 TPH	35m	Bag Filter
	2 x 6 TPH	30m	Bag Filter
2	**DG Sets:**		
	Existing: 3 x 750 kVA*,	8.5 m	Effective stack height
	1 x 500 kVA*,	10 m	Effective stack height
	1 x 380 kVA#,	4 m	Effective stack height
	Proposed:		
	3 x 1500 kVA*	7 m	Effective stack height
	1 x 1010 kVA*	10 m	Effective stack height
3	**Thermic Fluid Heaters**		
	Proposed: 1 x 2 Lac k.cal/hr	15m	Effective stack height
	1 x 4 Lac K.cal/hr	30m	Effective stack height

** Standby# Dismantled** Fuel change from Oil to Coal*

The process emissions contain ammonia, carbondioxide, sulfur dioxide and hydrogen chloride. Carbon dioxide and sulfur dioxide gases are sent to Multi stage scrubber with lime solution whereas ammonia sent to multi stage scrubber with HCl solution and hydrogen chloride gas sent to multi stage scrubber with caustic lye solution.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	404.7		404.7
2	Washings	15		15
3	Scrubber	10		10
4	Solvent recovery plant	25		25
5	Boiler	100	115	215
6	Cooling Towers	200	455	655
7	RO/DM Plant	10		10
8	Detoxification	10		10
9	Gardening	30		30
10	Domestic	45		45
	Total water requirement	**849.7**	**570**	**1419.7**

Details of Effluent generation, treatment & disposal after expansion:

Description of Effluent	Quantity (KLD)		Mode of Disposal
	Permitted	After Expansion	
HTDS Effluents			
Process	23.5	420	*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.*
Total HTDS -I	23.5	420	
LTDS Effluents			
Washings	5	15	
Scrubber		10	
Solvent recovery plant		25	
Cooling towers		70	
Boiler		24	
DM Plant, RO Plant, Softener		10	
Detoxification		10	
Total LTDS - II	5	164	
Domestic	6	45	
Total - III	6	45	
Grand Total (I + II + III)	34.5	628.9	

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Details of Solid Waste

S. No.	Description of waste	Quantity	Disposal method
1	Forced Evaporation Salts from Unit-5 ZLD Plant	518.2 TPM	TSDF
2	ETP Sludge generated from Unit-5 ZLD plant	450 TPM	TSDF / Cement Industry
3	ETP Sludge generated from Aurore Unit-I (Mylan Unit-3) Primary & STP plant	300 TPM	TSDF / Cement Industry
3	Process Inorganics Salts	302.45 TPM	TSDF
4	Mixed Spent Solvents	247 KLD	TSDF / Cement Industry
5	Spent Carbon	89 TPM	
6	Process Organic Residue	168.3 TPM	
7	Distillation Bottom Residue	719.8 TPM	
8	Thermocol	12 TPM	TSDF
9	Insulation Waste	12 TPM	TSDF
10	Glass wool	12 TPM	TSDF
11	Softener / DM Plant Resins	60 TPA	TSDF
12	Off specifications, rejected & Discarded Raw materials, lab chemicals & products etc	30 TPM	TSDF / Cement Industry
13	Stripper Distillate (VOC) generated from Unit-5 ZLD Plant	5.8 KLD	
14	Used Filters (HEPA filters Oil Filters etc)	600 Nos / Month	
15	Used / discarded Filter Bags	30 TPM	
16	Used / Discarded RO / UF Membranes	60 TPA	TSDF for Incineration
17	Lab Vials	1 TPM	TSDF / Cement Industry
18	Discarded PPE	5 TPM	TSDF / Cement Industry
19	HDPE containers	5000 No's/ M	Dispose of to outside agencies after detoxification
20	Glass Bottles	8000 No's/ M	
21	Liners & Bags	40 TPM	
22	Used Oil	1500 LPM	Authorized recyclers
23	Spent Solvents	164 KLD	Recovered within the premises / Sale to authorized recyclers
24	Lead acid batteries	100 No's/Year	Authorized recyclers
25	E- Waste	5 TPA	Authorized recyclers
26	Paper, cotton waste & Packing materials i.e. wood, carton, ropes	25 TPM	Sale to outside agencies / recyclers
27	Ply wood containers/ broken glass etc	10 TPM	
28	Metal scrap (MS, SS, GI, Aluminum)	25 TPM	
29	Boiler Soot	70 TPM	TSDF to use as a stabilizing agent / Brick manufactures
30	Canteen Waste	1.5 TPM	Piggeries

The present expansion project of unit-I proposes to transfer the effluents from APIL (unit-1) to the ZLD system located at APPL (Unit-2) by dedicated tankers with GPS facility. The SEAC noted that no ZLD system proposed within premises of Unit-I.

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost

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iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019,
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development
xvi) Justification of project proponent w.r.t. production details mentioned in certified compliance report by the Regional Office, MoE&F, Chennai on EC conditions.
xvii) Applicability of G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019, as the ZLD system is not proposed within the premises.

Members of Sub-Committee:
1. Smt. Vijay Laxmi
2. Sri Ch. Krishna Reddy

Agenda Item No. 08	**M/s. Sri Mahadev Industry, Survey No. 237/a/1,242/a/1, 242/aa/1 & 242/a/1, Nawabpet Village, Shivampet Mandal, Medak District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/164584/2020 (EC)**

The representative of the project proponent Sri Y. Mohan Rao ; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 8.55acres, out of which Green area is 2.82 acres (33%).

Nearest human habitation is Nawabpet(V) @ 1.66km; Nearest water body is seasonal tank Nawabpet@1.2 km; Nearest RF isNawabpet @ 0.35km from the industry.

Project Cost for proposed expansion is Rs.30 Crores. Budget for Environmental protection towards Capital Cost is Rs. 11.15crores and Recurring Cost is Rs.10.46crores. 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	Product Name	Capacity	
		TPM	Kg/day
1	4'-[[2-Butyl-4-chloro-5-(hydroxy methyl)-1H-imidazol-1-yl) methyl]-[1,1'-biphenyl]-2-carbonitrile	12	400
2	Abcavir Sulphate	2	66.7
3	Abiraterone	0.5	16.7
4	Aripiprazole	2.5	83.3
5	Atorvastatin Calcium	2.5	83.3

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S.No	Product Name	Capacity	
		TPM	Kg/day
6	Azacitidine	2	66.7
7	Bexorotene	2.5	83.3
8	Cabazitaxel	1	33.3
9	Candesartan	2.5	83.3
10	Capecitabine	6	200
11	Carboplatin	2	66.7
12	Cisplatin	4	133.3
13	Clopidogrel	1	33.3
14	Cyclophosphamide	5	166.7
15	Didanosine	3.2	106.7
16	Docetaxel	0.75	25
17	Entacapone	1.5	50
18	Ethyl Acetate HCl	200	6666.7
19	Ethyl(2R)-4-phenyl-2-[[(trifluoro methyl) sulfonyl] oxy] butanoate	8	266.7
20	Etoricoxib	4	133.3
21	Etravirine	2.5	83.3
22	Hypo Chloride	5	166.7
23	IPA HCl	240	8000
24	Irbesartan	6	200
25	Lenalidomide	1.8	60
26	Letrozole	4	133.3
27	Melphalan HCl	2.5	83.3
28	Methanol HCl	200	6666.7
29	Milnacipran HCl	1	33.3
30	Olmisartan	5	166.7
31	Oseltamivir Phosphate	3	100
32	Oxaliplatin	3	100
33	Sanitisor IPA	30	1000
34	Telmisartan	6	200
35	Tenofovir Disproxil Fumerate	2.5	83.3
36	Terbinafine HCl	6	200
37	Zidovudine	3.5	116.7
38	Zonisamide	2.5	83.3
39	Validation Batches	1.5	50
Total Worst-Case Scenario for 10 Products		**714**	**23800**

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

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 10 TPH 1 x 6 TPH	 35 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 2 x 500 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heater** Proposed: 2 x 2 Lakh K.cal/hr	30 m	--

Process emissions containing carbondioxide, hydrogen, oxygen and nitrogen. Carbon dioxide, oxygen and nitrogen are let out into atmosphere following a standard operating procedure. Hydrogen is let out into atmosphere safely through water column.

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Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	41.5		41.5
2	Washings	5		5
3	Scrubber	4		4
4	Boiler Feed	81		81
5	Cooling Tower	88	42	130
6	RO/DM Rejects	10		10
7	Domestic	15		15
8	Gardening	25		25
	Total water requirement	**269.5**	**42**	**311.5**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	43.6		43.6	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	5		5	
3	Scrubber Effluent	4		4	
4	RO/DM Plant Rejects	10		10	
6	Boiler Blow downs		5	5	
7	Cooling tower Blow downs		9	9	
8	Domestic		12	12	
Total effluent Quantity		**62.6**	**26**	**88.6**	

Details of Solid Waste:

S. No	Description	Unit	Quantity	Mode of Disposal
1	Organic Solid Waste	TPD	2.27	Sent to Cement Industries
2	Inorganic residue	TPD	1.9	Sent to TSDF/Cement Industries
3	Evaporation Salts	TPD	1.8	Sent to Cement Industries/TSDF
4	Spent Carbon & Hyflo	Kg/day	370	Sent to Cement Industries
5	Mixed Solvents	KLD	16	Sold to authorized recyclers
6	Spent Solvents	KLD	20	Sold to authorized recyclers
7	ETP Sludge	Kg/day	100	Sent to TSDF/Cement Industries
8	Used/Discarded PPE	Kg/Month	100	
9	Detoxified Polybags	Kg/Month	120	Sold out to local vendors after detoxification.
10	Detoxified Drums/ containers/ Container liners	No's/day	75	Sold out to local vendors after detoxification.
11	Discarded centrifuge/leaf filter/nutch filter cloths	No's/day	5	Sent to TSDF for incineration
12	Used Lead acid batteries	No's/Annum	4	Sent to authorized agencies on buy back basis.
13	Ash from Boiler	Tons/day	15.36	Sent to Brick Manufacturers
14	Waste Oils	Lts/Annum	1200	Sent to Authorized agencies.

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

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Minutes of the SEAC Meeting held on 25.09.2020

Agenda Item No. 09	**M/s. Chimnamile Organic Industries Pvt. Ltd., Survey No. 76, Turkala Khanapur Village, Hathnura Mandal, Sangareddy District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/165054/2020 (EC)**

The representative of the project proponent Sri Mahipal Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 9.94acres, out of which Green area is 3.28 acres (33%).

Nearest human habitation is Waddepalli(V) @ 1.3km; Nearest water body is Manjeera river stream @8.6km; Nearest RF isNaguwaram@ 4.8km from the industry.

Project Cost for proposed expansion is Rs.45 Crores. Budget for Environmental protection towards Capital Cost is Rs. 17.25crores and Recurring Cost is Rs.15.56crores. Budget for CER is Rs.90lakhs in first 5 years.

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

Manufacturing Capacity

S.No.	Product Name	Capacity (TPD)
1	Acyclovir	0.3
2	Atorvastatin	0.1
3	Cefixime	0.1
4	Gabapentine	0.1
5	Levofloxacin	0.5
6	Leviteracetam	0.4
7	Losartan Potassium	0.6
8	Lopinavir	0.4
9	Meropenam	0.1
10	Olmesartan Medoximil	0.2
11	Ritonavir	0.7
12	Telmisartan	0.4
13	2-Acetoxyethoxy)methyl acetate (AcyclovirIntermediate)	0.5
14	5-Cyano phthalide (Citalopram Inter)	0.5
15	Phosphorous trichloride	10
16	Phosphorous penta Chloride	8.3
17	Phosphorous oxy chloride	3.3
18	Phosphoric Acid	10
19	CMIC Acid	3
20	CMIC Chloride	1.3
21	Di CMIC Chloride	2
22	Validation Product	0.1
Worst case Scenario :10 Products/Day		39.76

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List of By Products

S.No	Name of By-Product	Quantity (TPD)
1	CalciumSulphate	23.26
2	Phosporic Acid	1.175
3	Hydrochloric Acid (30%)	5.84

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

S. No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 1x 3 TPH	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 2 x 1020 kVA, 1 x 750 kVA and 2 x 500 kVA	Adequate height	Acoustic enclosure
3	**Thermic Fluid Heater** Proposed: 1 x 4 Lakh K.cal/hr	30 m	--

Process emissions contain carbondioxide, hydrogen, oxygen, nitrogen, and chlorine. Chlorine sent to the scrubber in series. The resultant solutions after scrubbing i.e., sodium chloride form chlorine scrubbing is sent to ETP. Carbon dioxide, oxygen, and nitogen is let out into atmosphere following a standard operating procedure. Hydrogen is let out into atmosphere safely through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	86.4		86.4
2	Washings	6		6
3	Scrubber	5		5
4	Boiler Feed	81		81
5	Cooling Tower	88	42	130
6	RO/DM Rejects	10		10
7	Domestic	30		30
8	Gardening	40		40
	Total water requirement	**346.4**	**42**	**388.4**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	91.77		91.77	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	6		6	
3	Scrubber Effluent	5		5	
4	RO/DM Plant Rejects	10		10	
6	Boiler Blow downs		5	5	
7	Cooling tower Blow downs		9	9	
8	Domestic		25	25	
Total effluent Quantity		**112.77**	**39**	**151.77**	

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Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	4.34 TPD	Sent to Cement Industries
2	Process Salts	2.85 TPD	Sent to TSDF/Cement Industries
3	Evaporation Salts	4.42 TPD	Sent to Cement Industries/TSDF
4	Spent Carbon &Hyflo	0.38 TPD	Sent to Cement Industries
5	Mixed Solvents	12 TPD	Sold to authorised recyclers
6	Spent Solvents	15 TPD	Sold to authorised recyclers
7	ETP Sludge	150 Kg/day	Sent to TSDF/Cement Industries
8	Used/Discarded PPE	200 Kg/day	
9	Detoxified Polybags	200 Kg/day	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	8 No. s/day	Sent to TSDF for incineration
12	Used Lead Acid Batteries	6 No's/Annum	Sent to authorized agencies on buy back basis.
13	Ash from Boiler	15.36 Tons/day	Sent to Brick Manufacturers
14	Waste Oils	1200 Lts/Annum	Sent to Authorized agencies.

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

Agenda Item No. 10	**M/s. Anticus Laboratories Pvt. Ltd. Sy. No. 904, 905, 906, 934 (Part), Jangampally Village, Biknoor Mandal, Kamareddy District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/165196/2020 (EC)**

The representative of the project proponent Sri M. Srinivas Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 7.475acres, out of which Green area is 2.5 acres (33.44%).

Nearest human habitation is Jangampally(V) @ 0.9 km; Nearest water body is Seasonal stream @0.2km; Nearest RF isBiknoor @ 6.4km from the industry.

Project Cost for proposed expansion is Rs.25 Crores. Budget for Environmental protection towards Capital Cost is Rs. 6.1crores and Recurring Cost is Rs.5.2 crores. Budget for CER is Rs.78lakhs 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

CHAIRMAN, SEAC

S.No	Name of Product	Capacity	
		Kg/day	TPM
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	Lesinurad	25	0.75
15	Levetiracetam	250	7.5
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**

List of 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%)	50.2

CHAIRMAN, SEAC

S.No	Name of Product	Stage	Name of By Product	Quantity (Kg/day)
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 Hemifumarate	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

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 10 TPH 1 x 6 TPH (Standby)	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1 x 500 kVA	10 m each	Bag filter
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 dioxide, oxygen and nitrogen. 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 after expansion:

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

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	64.8		64.8	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	5		5	
3	Scrubber Effluent	5		5	
4	RO/DM Plant Rejects	5		5	
5	R&D		2	2	
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**	

CHAIRMAN, SEAC

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	
8	Boiler Ash	6.8 TPD	Sent to brick manufacturers
9	Spent Solvents	40 KLD	Recovered within plant premises and reused.
10	Spent Mixed solvents	14.3 KLD	Sent to Authorized recyclers
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, Oil Filters etc)	80 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

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

Agenda Item No. 11	**M/s. Glochem Industries Pvt. Ltd., Sy. No. 174 to 176, IDA, Bollaram, Bollaram Village, Jinnaram Mandal, Sangareddy District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/165129/2020 (EC)**

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

The proponent obtained CFE dt.14.08.2003 from APPCB for manufacture of Bulk Drug Intermediates.

The latest CFO dt.18.01.2018 valid upto 31.12.2022.

The proponet submitted self-compliance Report on CFO conditions.

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 after proposed Expansion as follows:

Total area is 3.7 acres including existing area of 2 acres, out of which Green area is 1.25acres (34%).

CHAIRMAN, SEAC

Nearest human habitation is Bollaram village @ 0.75km; Nearest waterbody is a Kattu kalva a seasonal stream @ 5.2 km; Nearest RF isWailal@ 6.7 km.

Project Cost for proposed expansion is Rs.10Crores. Budget for Environmental protection towards Capital Cost is Rs. 1.82 crores while recurring costs for is Rs. 3.3 crores/year. Budget for CER is Rs.17lakhs 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	Amlodipine Base	50	1.5
2	Amlodipine Besylate (P-I)	320	9.6
3	Amlodipine Maleate	10	0.3
4	Citrazine Dihydrochloride	150	4.5
5	Phthalimido Amlodipine	250	7.5
6	Amlodipine Besylate (S-)	10	0.3
7	Levocetirizine dihydrochloride	20	0.6
8	Amlodipine Besylate (P-III)	30	0.9
9	Ethyl-4-(2-Phthalimido) ethoxy acetoacetate	20	0.6
10	R&D and Validation Products	1	0.03
Total		861	25.8

List of By Products after Expansion

S.No	Product Name	Stage	Name of By-Product	Quantity (Kg/day)
1	Amlodipine Base	II	Spent Acetic Acid	398.9
2	Amlodipine Besylate (P-I)	II	Spent Acetic Acid	1994.1
3	Amlodipine Maleate	II	Spent Acetic Acid	126.0
4	Citrazine Dihydrochloride	I	Piperzine MI. (12%)	148.7
4	Phthalimido Amlodipine	II	Spent Acetic Acid	1368.4
5	Amlodipine Besylate (S-)	II	Spent Acetic Acid	382.8
6	Amlodipine Besylate (P-III)	II	Spent Acetic Acid	391
7			Dil HCl (30%) from scrubbers	174.1

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

S.No	Utility	Stack Height (mt)	APCE
1	**Boilers:**		
	Existing: 1 x 0.4 TPH # & 1 x 0.5 TPH#	15 m	Bag Filter
	Proposed: 1 x 2 TPH **	30m	Bag Filter
	1 x 4 TPH	30m	Bag Filter
2	**DG Sets:**		
	Existing: 1 x 250 kVA*,	4 m	Effective stack height
	Proposed: 1 x 320 kVA*	4 m	Effective stack height
	1 x 500 kVA*	5 m	Effective stack height
3	**Thermic Fluid Heaters**		
	Existing: Nil		
	Proposed: 1 x 2 Lac k.cal/hr	10m	Effective stack height

** DG sets will be used during load shutdown, **Standby Boiler # Dismantled after expansion*

CHAIRMAN, SEAC

The process emissions contain hydrogen chlorideis sent to dual stage scrubber system, scrubbed dilute HCl (30%) from primary scrubber sold as by-product. Sodium chloride effluent from secondary scrubber sent to ZLD systen system for further treatment.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	41.1		41.1
2	Washings	3		3
3	Scrubber	5		5
4	Boiler Feed	25	10	35
5	Cooling Tower	15	55	70
6	RO/DM Rejects	4		4
7	Domestic	4		4
8	Gardening	5		5
	Total water requirement	**105**	**65**	**167**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	43.6		43.6	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	3		3	
3	Scrubber Effluent	5		5	
4	RO/DM Plant Rejects	4		4	
5	Boiler Blow downs		4	4	
6	Cooling tower Blow downs		8	8	
7	Domestic		3.5	3.5	
Total effluent Quantity		**55.6**	**15.5**	**71.7**	

Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	2.66 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	0.57 TPD	
3	Spent Carbon	26 Kg/day	
4	Hyflow	8 Kg/day	
5	Evaporation Salts	1.725 TPD	Sent to TSDF
6	Inorganic Residue	494.1 Kg/day	
7	ETP Sludge	9.32 TPM	
8	Boiler Ash	2.72 TPD	Sent to brick manufacturers
9	Spent Solvents	12.7 KLD	Recovered within plant premises and reused.
10	Spent Mixed solvents	5.5 KLD	Sent to Authorized recyclers
11	Stripper Distillate	0.4 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	145 Ltrs/ Month	Sent to authorized agencies
13	Used Lead acid Batteries	8 No.s/ Year	Sent to suppliers on buy back basis
14	Bio medical waste	10 Kg/day	Sent to authorized common biomedical treatment facility
15	Detoxified containers & bags	250 Nos / Month	Sent to authorized recyclers
16	Used PPE	30 Kgs/ Month	Sent to authorized vendor
17	E- Waste	0.5 TPA	Authorized recyclers
18	Plastic Waste	0.2 TPA	Authorized recyclers

CHAIRMAN, SEAC

S. No	Description	Quantity	Mode of Disposal
19	Meral Scrap	12 TPA	Sale to out side agencies/ recyclers
20	Used Filters (HEPA filters, Oil Filters etc)	100 Nos /year	Sent to TSDF
21	Used / Discarded RO Membranes	0.1 TPA	Sent to TSDF

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per FR-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09 2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Sri R.S. Mantri
2. Sri Suresh
3. Sri Ch. Krishna Reddy

Agenda Item No. 12	M/s. Surabhi Laboratories Pvt. Ltd., Sy. No: 529/AA1, Yellammaguda Village, Hathnoora Mandal, Sangareddy District - Environmental Clearance - Reg.
Proposal No.	SIA/TG/IND2/166542/2020 (EC)

The representative of the project proponent Sri G. Ravi,; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 2.8acres, out of which Green area is 0.92 acres (33%).

Nearest human habitation is Waddapalle(V) @ 0.9 km; Nearest water body is Nakkavagu a seasonal stream @7.4km; Nearest RF isNaguwaram @ 4.8km from the industry.

Project Cost for proposed expansion is Rs.20 Crores. Budget for Environmental protection towards Capital Cost is Rs. 7.9crores and Recurring Cost is Rs.5.8crores. Budget for CER is Rs.40lakhs in first 5 years.

CHAIRMAN, SEAC

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

Manufacturing Capacity

S.No.	Product Name	Capacity (TPD)
1	4'-[[2-Butyl-4-chloro-5-(hydroxy methyl)-1H-imidazol-1-yl) methyl]-[1,1'-biphenyl]-2-carbonitrile	0.4
2	Atorvastatin Calcium	0.1
3	Lopinavir	0.1
4	2-Cyano-4-Methyl Biphenyl (OTBN)	0.5
5	Pantoprazole sodium	0.3
6	Telmisartan	0.2
7	Valsartan	0.25
8	Zidovudine	0.3
9	Sodium Ethoxide (30%)	33.3
10	Sodium Ethoxide (Dry)	5
11	Sodium Iso Propoxide	4
12	Sodium Methoxide (30%)	50
13	Sodium Methoxide (Dry)	10
14	Validation Products	0.05
	Worst case scenario (6 Products at a time)	**102.8**

List of By-Products

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

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

S.No.	Utility	Stack Height (mt)	APCE
I	**Boilers:** Proposed: 1 x 8 TPH 1 x 4 TPH	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1x750 kVA, 1 x 500 kVA	10 m each	Effective stack height
3	**Thermic Fluid Heater** Proposed: 1 x 4 Lakh K.cal/hr	30 m	Bag filter

Process emissions contain hydrogen. 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	29.07		29.07
2	Washings	3		3
3	Scrubber	4		4
4	Boiler Feed	70	40	110
5	Cooling Tower	80		80
6	RO/DM Rejects	5		5
7	Domestic	8		8
8	Gardening	10		10
	Total water requirement	**209.07**	**40**	**249.07**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	29.8		29.8	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	3		3	
3	Scrubber Effluent	4		4	
4	RO/DM Plant Rejects	5		5	
5	Boiler Blow downs		4.5	4.5	
6	Cooling tower Blow downs		8	8	
7	Domestic		6.5	6.5	
Total effluent Quantity		**41.8**	**19**	**60.8**	

Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	1.4 TPD	Sent to Cement Industries
2	Process Inorganic Residue	0.65 TPD	Sent to TSDF/Cement Industries
3	Evaporation Salts	0.89 TPD	Sent to Cement Industries/TSDF
4	Spent Carbon & Hyflow	0.13 TPD	Sent to Cement Industries
5	Mixed Solvents	4 KLD	Sold to authorized recyclers
6	Spent Solvents	6.5 KLD	Sold to authorized recyclers
7	ETP Sludge	50 Kg/day	Sent to TSDF/Cement Industries
8	Used/Discarded PPE	120 Kg/Month	
9	Detoxified Polybags	100 Kg/Month	Sold out to local vendors after detoxification.
10	Detoxified Drums/ containers/ Container liners	100 No.s/day	Sold out to local vendors after detoxification.
11	Discarded centrifuge/leaf filter/nutch filter cloths	2 No.s/day	Sent to TSDF for incineration
12	Used Lead Acid Batteries	4 No's/Annum	Sent to authorized agencies on buy back basis.
13	Ash from Boiler	12 Tons/day	Sent to Brick Manufacturers
14	Waste Oils	800 Lts/Annum	Sent to Authorized agencies.

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

Agenda Item No. 13	**M/s. Vindhya Organics Limited., Plot. No. 3, 4 & 5, Anrich Industrial Estate, IDA Bollaram, Jinnaram Mandal, Sangareddy District - Environmental Clearance (Expansion) - Reg.**
Proposal No.	**SIA/TG/IND2/166675/2020 (EC)**

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

Earlier, CFO dt.31.03.2003 issued by APPCB for manufacturing of Sodium Azide and Sodium Sulphite.

Susequenty, the industry obtained CFE for change of product mix dt. 29.07.2011 from APPCB to manufacture Sodium Azide & TTBB-3.

Latest CFO dt.05.08.2016 with validity upto 31.05.2021 of TSPCB to manufacture Bulk Drug Intermediates.
The proponent submitted self-compliance Report on CFO conditions.

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 25.09.2020

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 3 acres, out of which Green area is 1acres(33%).

Nearest human habitation is Bollaram village @ 1.08km; Nearest waterbody is a Kattukalva a seasonal stream @ 4.9 km; Nearest RF isWailal@ 7 km.

Project Cost for proposed expansion is Rs.6Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.37 crores while recurring costs for is Rs. 1.75 crores/year. Budget for CER is Rs.6lakhs 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 (TPD)
1	Abacavir	0.5
2	Celecoxib Intermediate	0.2
3	Dapagliflozin	0.1
4	Dolutegravir	0.1
5	Duloxetine HCl	0.2
6	Emtricitabine	0.7
7	Escitalopram Oxalate	0.2
8	Ezetimide	0.1
9	Fosamprenavir	0.1
10	Lamivudine	0.3
11	Levofloxacin	0.2
12	Lopinavir	0.1
13	Losartan Potassium	0.3
14	Montelucast	0.1
15	Prasugrel HCl	0.4
16	Ramapril	0.04
17	Sitagliptine	0.3
18	Sertraline	0.1
19	Valsartan	0.1
20	Telmisartan	0.7
21	Ziprasidone	0.1
22	Milnacipran	0.1
23	Sumatriptan Succinate	0.2
24	N-(4-(benzyloxy) benzylidene)-4-fluoro- benzene amine (4-BBPFA) (Ezetimide Intermediate)	0.7
25	Tributyltin chloride (TBTC)	2.0
26	Validation products	0.003
	Total Production (Worst case scenario: 6 Products)	**4.9**

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

S.No	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 0.6 TPH & 1 x 3 TPH Proposed: 1 x 6 TPH	 15 m 30m	 Bag Filter Bag Filter
2	**DG Sets:** Existing: 1 x 125 kVA*, 1 x 380 kVA* Proposed: 1 x 500 kVA*	 5 m each 5 m	 Effective stack height Effective stack height
3	**Thermic Fluid Heaters** Existing: Nil Proposed: 1 x 4 Lac k.cal/hr	 30m	 Effective stack height

** DG sets will be used during load shutdown,**Standby Boiler # Dismantled after expansion*

CHAIRMAN, SEAC

The process emissions contain nitrogen, nitrogen monoxide, carbondioxide, carbon monoxide and hydrogen. Nitrogen, nitrogen monoxide, carbondioxide and carbon monoxide are let out into atmosphere following a standard operating procedure. Hydrogen is let into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	29.04		29.04
2	Washings	1.5		1.5
3	Scrubber	2.0		2.0
4	Boiler Feed	70		70
5	Cooling Tower	50	42	90
6	RO/DM Rejects	6		6
7	Domestic	8		8
8	Gardening	10		10
	Total water requirement	**176.54**	**42**	**218.54**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	30.1		30.1	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	1.5		1.5	
3	Scrubber Effluent	2		2	
4	RO/DM Plant Rejects	6		6	
5	Boiler Blow downs		4	4	
6	Cooling tower Blow downs		4	4	
7	Domestic		6	6	
Total effluent Quantity		**39.6**	**14**	**53.6**	

Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	2.6 TPD	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	1.9 TPD	
3	Spent Carbon/Hyflow	0.23 TPD	
4	Inorganic Residue	0.5 TPD	Sent to TSDF
5	Evaporation Salts	1.1 TPD	Sent to TSDF
6	ETP Sludge	1.66 TPD	Sent to TSDF
7	Spent Solvents	60.8 KLD	Recovered within plant premises and reused
8	Spent Mixed solvents	6.8 KLD	Authorized recyclers
9	Stripper Distillate	0.78 KLD	Sent to cement plants for co-incineration/TSDF
10	Waste oils & Grease	5.2 Kl/year	Sent to authorized agencies
11	Used Lead acid Batteries	50 Nos/ Year	Sent to suppliers on buy back basis
12	E waste	1 TPA	Sent to authorized agencies
13	Paper waste, & Misc.	0.5 TPM	Sent to scrap vendors
14	Contaminated cotton waste	0.01 TPM	Sent to authorized agencies
15	Contaminated filter cloth	0.01 TPM	

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost

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iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development
xv) Compliance of Hon'ble NGT Order dt.19.08.2019 (Published on 23.08.2019) in OA. No. 1038 / 2018 as per OM dt.31.10.2019 of the MoEF&CC, GoI.

Members of Sub-Committee:
1. Sri R.S. Mantri
2. Sri Suresh
3. Sri Ch. Krishna Reddy

Agenda Item No. 14	**M/s. Integrin Life Sciences Pvt. Ltd., Sy. No. 257/B/2, Nawabpet Village, Shivampet Mandal, Medak District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/167224/2020 (EC)**

The representative of the project proponent Sri Y.V. R. Murthy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 1.492acres, out of which Green area is 0.5 acres (34%).

Nearest human habitation is Nawabpet(V) @ 1.8km; Nearest water body is Gunmadidala Erra cheruvua seasonal stream @3.5km; Nearest RF isNawabpet @ 0.84 km from the industry.

Project Cost for proposed expansion is Rs.7 Crores. Budget for Environmental protection towards Capital Cost is Rs. 3.04crores and Recurring Cost is Rs.2.2crores. Budget for CER is Rs.19lakhs 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	27	0.82
2	Anastrozole	11	0.32
3	Capecitabine	367	11
4	Dexlansoprazole	128	3.85
5	Gemcitabine Hydrochloride	14	0.42
6	Granisetron Hydrochloride	50	1.5
7	Hydroxy Chloroquine Sulfate	80	2.4
8	Ibandronate Sodium	100	3

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S.No	Name of Product	Capacity	
		Kg/day	TPM
9	Imatinib mesylate	50	1.5
10	lansoprazole	120	3.6
11	Letrozole	103	3.1
12	Residronate Sodium	105	3.15
13	Tri Ethyl Benzyl Ammonium Chloride	1200	36
14	Zoledronic acid	250	7.50
	Total - Worst Case 3 products	**1817**	**54.5**

List of By-Products

S.No	Name of Product	Stage	Name of By-Product	Quantity	
				Kg/day	TPM
1	Dexlansoprazole	I	2-phenylpropan-2-ol	47.3	1.4
2	Hydroxy Chloroquine Sulfate	I	Phosphoric acid	20.1	0.6
			Ethanol	9.5	0.3
3	lansoprazole	II	Ammonia sulphate	98.4	3.0
4	Residronate Sodium	I	Phosphorous acid	49.4	1.5
			Hydrochloric Acid (20%) from Scrubber	350.3	10.5

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 1 x 3 TPH	30 m	Bag filter
2	**DG Sets:** Proposed: 2 x 125 kVA	5 m each	Bag filter
3	**Thermic Fluid Heater** Proposed: 1 x 2 Lakh K.cal/hr	30 m	Effective stack height

Process emissions containing 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.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	15.7		15.7
2	Washings	3		3
3	Scrubber	3		3
4	Boiler Feed	15	5	20
5	Cooling Tower	10	32	42
6	RO/DM Rejects	2.5		2.5
7	Domestic	4		4
8	Gardening	5		5
	Total water requirement	**58.2**	**37**	**95.2**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	17.3		17.3	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up and cooling tower.
2	Washings	3		3	
3	Scrubber Effluent	3		3	
4	RO/DM Plant Rejects	2.5		2.5	
5	Boiler Blow downs		1.5	1.5	
6	Cooling tower Blow downs		9	9	
7	Domestic		3.8	3.8	
Total effluent Quantity		**25.8**	**14.3**	**40.1**	

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Details of Solid Waste:

S. No	Description	Quantity	Mode of Disposal
1	Process Organic residue	0.711 TPD	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	0.397 TPD	
3	Spent Carbon	85 Kg/day	
4	Hyflow	35 Kg/day	Sent to TSDF
5	Evaporation Salts	53.3 TPD	
6	Inorganic Residue	557.7 Kg/day	
7	ETP Sludge	0.61 TPD	
8	Boiler Ash	4.6 TPD	Sent to brick manufacturers
9	Spent Solvents	16.2 KLD	Recovered within plant premises and reused.
10	Spent Mixed solvents	1.8 KLD	Sent to Authorized recyclers
11	Stripper Distillate	0.38 KLD	Sent to cement plants for co-incineration/TSDF, Dundigal
12	Waste oils & Grease	0.21 KLPA	Sent to authorized agencies
13	Used Lead acid Batteries	15 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 outside 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 detailed discussions, the SEAC recommended the project for issue of EC.

Agenda Item No. 15	**M/s. Artemis Bio-tech Ltd., Plot No. 1 & 5, Phase I, IDA Jeedimetla, Quthbullapur Mandal, Medchal District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/168778/2020 (EC)**

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

The proponent obtained CFE vide order dt.03.09.2002.

Latest CFO dt.19.03.2018 valdity upto 31.12.2022 from TSPCB.

The submitted self-compliance Report on CFO conditions.

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 after proposed Expansion as follows:

Total area is 4.06acres, out of which Green area is 1.34acres (33%).

Nearest human habitation is Chintal village @ 0.5km; Nearest RF isDulapalle@ 1.5 km.

Project Cost for proposed expansion is Rs.3.5Crores. Budget for Environmental protection towards Capital Cost is Rs. 1.64 crores while recurring costs for is Rs. 1.12 crores/year. Budget for CER is Rs.15lakhs in first 5 years.

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

Manufacturing Capacity– After Expansion

S. No	Product Name	Capacity	
		Kg/day	TPM
1	Ketamine Hydrochloride	66.7	2.0
2	Midazolam	4.2	0.1
3	Dex Medetomidine Hydrochloride	3.3	0.1
4	Atracurium besylate	2.5	0.1
5	Propofol	50.0	1.5
6	Simvastatin	166.7	5.0
7	Cisatracurium Besylate	1.7	0.05
8	Fumagillin DCHA salt	5.0	0.15
9	R&D	3.3	0.1
	Total	**303.4**	**9.1**

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

S.No	Utility	Stack Height (mt)	APCE
1	**Boilers:**		
	Existing: 2 x 2.5 TPH	20 m	Bag Filters
	Proposed: 1x 5 TPH	30 m	Bag Filters
2	**DG Sets:**		
	Existing: 1 x 250 kVA	4 m	Effective stack height
	Proposed: 2 x 500 kVA	4.5 m	Effective stack height
	1x1000 kVA	3.58 m	Effective stack height
3	**Boilers:**		
	Existing: 2 x 2.5 TPH	20 m	Bag Filters
	Proposed: 1x 5 TPH	30 m	Bag Filters

The process emissions contain ammonia, hydrogen chloride and hydrogen.Hydrogen chloride, ammoniais sent to scrubber in series. Hydrogen is sent to atmosphere safely through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	15.6		15.6
2	Washings	8		8
3	**Scrubber**	3		3
4	Boiler Feed	40		40
5	Cooling Tower	15	40	55
6	RO/DM Rejects	5		5
7	Domestic	6		6
8	Gardening	10		10
	Total water requirement	**103**	**40**	**143**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	17.1		17.1	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up.
2	Washings	8		8	
3	Scrubber Effluent	3		3	
4	RO/DM Plant Rejects	5		5	
5	Boiler Blow downs		3	3	
6	Cooling tower Blow downs		12	12	
7	Domestic		5	5	
Total effluent Quantity		**33.1**	**20**	**53.1**	

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Details of Solid Waste after expansion:

S. No	Description	Quantity	Mode of Disposal
		7.69 TPM	Sent to cement plants for co-incineration/TSDF Dundigal.
2	Solvent residue	0.48 TPD	
3	Spent Carbon	0.25 TPM	
5	Evaporation Salts	31.3 TPM	Sent to TSDF
6	ETP Sludge	25 TPM	
7	Boiler Ash	1500 Kg/day	Sent to brick manufacturers
8	Spent Solvents	415.3 KL/Month	Recovered within plant premises and reused
9	Spent Mixed solvents	46.1 KL/Month	Sent to Authorized recyclers
10	Stripper Distillate	4189 L/Month	Sent to cement plants for co-incineration/TSDF, Dundigal
11	Waste oils & Grease	170 Ltrs/Month	Sent to authorized agencies
12	Used Lead acid Batteries	25 No. s/year	Sent to suppliers on buy back basis

The SEAC noted that the project was also considered by the SEAC earlier, but is was deferred for detailed examination keeping in view of the permitted products & conditions as mentioned in the initial CFE order w.r.t. G.O.Ms. No. 95, dt. 21.09.2007.

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Smt. T. Vijaya Laxmi
2. Sri Ch. Krishna Reddy

Agenda Item No. 16	M/s. AP Explochem Pvt. Ltd., Sy. No.50 (Part), Bommalaramaram Village & Mandal Yadadri District - Environmental Clearance - Reg.
Proposal No.	SIA/TG/IND2/168925/2020 (EC)

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

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Minutes of the SEAC Meeting held on 25.09.2020

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 after proposed Expansion as follows:

Total area is 100acres, out of which Green area is 35 acres (35%).

Nearest human habitation is PeddaParvathapuram(V) @ 1.05km; Nearest water body is Shamirpetvagu a seasonal stream @4km; Nearest RF isNaginnepalli@ 3.5km from the industry.

Project Cost for proposed expansion is Rs.75 Crores. Budget for Environmental protection towards Capital Cost is Rs. 13.52crores and Recurring Cost is Rs.17.17 crores. Budget for CER is Rs.150lakhs in first 5 years.

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

S.No	Name of the Product	Capacity	
		Kg/Day	TPM
1	Alendronate Sodium	800	24
2	Aripiprazole	800	24
3	Atorvastatin Calcium	135	4
4	Azacitidine	400	12
5	Bicalutamide	300	9
6	Bortezomib	50	2
7	Candesartan	320	10
8	Capacitabine	1000	30
9	Carvedilol	1000	30
10	Celecoxib	1000	30
11	Cetrizine HCl	600	18
12	Citalopram HBr	350	11
13	Clopidogrel Bi Sulphate	350	11
14	Disodium Pamidronate	450	14
15	Divalprox Sodium	500	15
16	Docetaxal Trihydrate	35	1
17	Domperidone	450	14
18	Donepezil HCl	350	11
19	Dronedarone HCl	800	24
20	Duloxetine HCl	470	14
21	Esomeprazole Mg	1000	30
22	Ezitimibe	500	15
23	Febuxostat	650	20
24	Fexofenadine Hydrochloride	280	8
25	Finasteride	100	3
26	Fluconazole	100	3
27	Fluxetine	1000	30
28	Gemcitabine HCl	350	11
29	Glimipiride	700	21
30	Glipizide	360	11
31	Ibandronate Na	700	21
32	Lamotrigine	700	21
33	Lansoprazole	250	8
34	Levetiracetam	1000	30
35	Levo Cetirizine HCl	300	9
36	Levofloxacin	750	23
37	Loratadine	300	9
38	Losortan Potassium	700	21
39	Montelukast Na	5000	150
40	Omeprazole	800	24
	Total - Worst Case 20 Products on campaign basis	20000	600

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List of By-Products

S.No	Name of the Product	Stage	Name of By Product	Quantity (Kg/Day)
1	Levetiracetam	I	Potassium Chloride	1340
2	Loratadine	II	Ammonium sulfate	260.3
			Sodium bisulfate	236.5
3	Montelukast Sodium	I	Methane Sulfonic acid	789.5
4	Omeprazole	II	Sodium sulfate	116

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:**		
	Proposed: 3 x 10 TPH (1 x 10 TPH standby)	35 m	Bag filter
	1 x 5 TPH (Standby)	30 m	Bag filter
2	**DG Sets:**		
	Proposed: 2 x 2000 kVA and 4 x 1000 kVA	10 m & 7m	Effective stack height

Process emissions containing Ammonia, Hydrogen bromide and Hydrogen chloride, are sent to scrubber in series. Ammonium Chloride from ammonia scrubbing, Sodium bromide from HBr scrubbing, Potassium fluoride from Hydrogen fluoride scrubbing, Sodium chloride from HCl scrubbingare sent to ETP. The other gas expected in the process is carbon dioxide, and Nitrogen which 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	198.1		198.1
2	Washings	20		20
3	R&D	5		5
4	Scrubber	15	5	20
5	Boiler Feed	100		100
6	Cooling Tower	40	320	360
7	RO/DM Rejects	25		25
8	Domestic	20		20
9	Gardening	20	17	37
	Total water requirement	**443.1**	**342**	**785.1**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	220		220	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, and scrubbers. Domestic wastewater after STP reused for gardening.
2	Washings	20		20	
3	Scrubber Effluent	20		20	
4	RO/DM Plant Rejects	25		25	
5	R&D		5	5	
6	Boiler Blow downs		10	10	
7	Cooling tower Blow downs		50	50	
8	Domestic		17	17	
Total effluent Quantity		**285**	**65**	**367**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	31.2 TPD	Sold to Brick manufactures
2	Process Organic residue	22.85 TPD	Sent to TSDF/Cement Industries
3	Process Inorganic residue	0.63 TPD	Sent to TSDF
3	Solvent Residue	13.87 TPD	Sent to TSDF/Cement Industries

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S.No	Description	Quantity	Mode of Disposal
4	Stripper Distillate	8.47 KLD	Sent to TSDF/Cement Industries
5	Spent Carbon	1.45 TPD	Sent to TSDF/Cement Industries
6	Mixed Solvents	38.3 TPD	Sent to authorized recovery units/ Cement plants for co-incineration
7	Spent Solvents	344.3 TPD	Recovered within the plant premises.
8	Evaporation Salts	12.67 TPD	Sent to TSDF
9	Catalyst	744.3 Kg/day	Sent to TSDF
10	Hyflow	211.2 Kg/day	Sent to TSDF
11	ETP Sludge	1.5 TPD	Sent to TSDF
12	Detoxified containers	3000 No.s/year	After detoxification sent to Authorized agencies
13	Waste Oil	0.8 Kl/Month	Sent to Authorized Recyclers
14	Used batteries	650 No.s/year	Sent to Authorized Recyclers

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

Agenda Item No. 17	M/s. Regenesis Industries Pvt. Ltd., Sy. No.50 (Part), Bommalaramaram Village & Mandal, Yadadri District - Environmental Clearance - Reg.
Proposal No.	SIA/TG/IND2/168933/2020 (EC)

The representative of the project proponent Sri A. Vijaysena Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 100acres, out of which Green area is 35 acres (35%).

Nearest human habitation is Bommalaramaram(V) @ 1.075km; Nearest water body is Shamirpetvagu a seasonal stream @4km; Nearest RF isNaginipalli@ 2.9km from the industry.

Project Cost for proposed expansion is Rs.75 Crores. Budget for Environmental protection towards Capital Cost is Rs. 13crores and Recurring Cost is Rs.16.07 crores. Budget for CER is Rs.150lakhs 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	TPM
1	Paclitaxel	50	2
2	Pantoprazole Sodium	500	15
3	Paroxetine HCl	200	6
4	Pioglitazone Hydrochlonde	70	2
5	Pitavastatin Calcium	150	5
6	Prasugrel HCl	250	8
7	Pregabalin	500	15
8	Rabeprazole Sodium	150	5
9	Raloxifene	250	8
10	Residronate Sodium	600	18

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S.No	Name of the Product	Capacity	
		Kg/Day	TPM
11	Sertraline HCl	**500**	**15**
12	Simvastatin	180	5
13	Tamsulosin HCl	**500**	**15**
14	Telmisartan	**500**	**15**
15	Valsartan	**600**	**18**
16	Venlafaxine HCl	**500**	**15**
17	Zafirlukast	**1000**	**30**
18	Ziprasidone HCl	**1000**	**30**
19	Zoledronic Acid	**500**	**15**
20	Zolmitriptan	300	9
21	Atazanavir Sulfate	**500**	**15**
22	Azilsartan Medoxomil	150	5
23	Citicoline Sodium	**1500**	**45**
24	Dabigatran	**800**	**24**
25	Daclatasvir Dihydrochloride	**2500**	**75**
26	Darunavir	300	9
27	Dimethyl Fumarate	**800**	**24**
28	Dolutegravir Sodium	**1200**	**36**
29	Doxylamine Succinate	**500**	**15**
30	Acyclovir	250	8
31	Benzohydroyl Thioacetamide	**500**	**15**
32	Calcium Acetate	200	6
33	Doxofylline	**5000**	**150**
34	Fenoprofen Calcium	250	8
35	Entacapone	95	3
36	Thiabendazole	50	2
37	Imatanib Mesylate	50	2
38	Glycopyrrolate	100	3
39	Abacavir Sulphate	50	2
40	Cilostazol	125	4
Total - Worst Case 20 Products on campaign basis		**20000**	**600**

List of By-Products

S.No	Product Name	Stage	Name of By-product	Quantity (Kg/day)
1	Ziprasidone hydrochloride Pure	I	Trifluoro Acetic Acid	719.3
			Triethyl silanol	832.9
2	Daclatasvir Dihydrochloride	II	Di Isopropyl Ethyl Amine Tetra HCl	3061.7
3	Acyclovir	I	Spent Acetic Acid (20%)	1040.5
		III	Sodium Acetate	207.4
4	From HCl Scrubbers		Dilute HCl (20%)	9215

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:**		
	Proposed: 3 x 10 TPH (1 x 10 TPH standby)	35 m	Bag filter
	1 x 5 TPH (Standby)	30 m	Bag filter
2	**DG Sets:**		
	Proposed: 2 x 2000 kVA and 4 x 1000 kVA	10 m & 7m	Effective stack height

Process emissions contain ammonia, carbondioxide,hydrogen, hydrogen bromide, hydrogen chloride, nitrogen, oxygen and sulfur dioxide. Ammonia, hydrogen bromide, hydrogen chlorideand sulphur dioxide are sent to scrubber in series. Ammonium chloride from ammonia scrubbing, sodium bromide from HBr scrubbing, Sodium chloride from HCl scrubbing, sodium bisulfite from sulphur dioxide scrubbing are sent to ETP. The other gas expected in the process is carbon dioxide, oxygenand nitrogen which 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	196.9		196.9
2	Washings	20		20
3	R&D	5		5
4	Scrubber	15	5	20
5	Boiler Feed	100		100
6	Cooling Tower	45	322	367
7	RO/DM Rejects	20		20
8	Domestic	20		20
9	Gardening	20	17	37
	Total water requirement	**446.9**	**344**	**790.9**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	211.9		211.9	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, and scrubbers. Domestic wastewater after STP reused for gardening.
2	Washings	20		20	
3	Scrubber Effluent	20		20	
4	RO/DM Plant Rejects	25		25	
5	R&D		5	5	
6	Boiler Blow downs		10	10	
7	Cooling tower Blow downs		52	52	
8	Domestic		17	17	
Total effluent Quantity		**276.9**	**84**	**360.9**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Disposal
1	Ash from Boiler	31.2 TPD	Sold to Brick manufactures
2	Process Organic residue	13.5 TPD	Sent to TSDF/Cement Industries
3	Process Inorganic residue	0.35 TPD	Sent to TSDF
3	Solvent Residue	10.2 TPD	Sent to TSDF/Cement Industries
4	Stripper Distillate	4.81 KLD	Sent to TSDF/Cement Industries
5	Spent Carbon	858 TPD	Sent to TSDF/Cement Industries
6	Mixed Solvents	38 TPD	Sent to authorized recovery units/Cement plants for co-incineration
7	Spent Solvents	342 TPD	Recovered within the plant premises.
8	Evaporation Salts	9.48 TPD	Sent to TSDF
9	Catalyst	125.6 Kg/day	Sent to TSDF
10	Hyflow	223.6 Kg/day	Sent to TSDF
11	ETP Sludge	2.1 TPD	Sent to TSDF
12	Detoxified containers	3000 No.s/year	After detoxification sent to Authorized agencies
13	Waste Oil	0.8 Kl/Month	Sent to Authorized Recyclers
14	Used batteries	650 No.s/year	Sent to Authorized Recyclers

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

CHAIRMAN, SEAC

Minutes of the SEAC Meeting held on 25.09.2020

Agenda Item No. 18	**M/s. Alrax Labs Pvt. Ltd., Survey No: 207, Masaipet Village, Yeldurthy Mandal, Medak District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/169158/2020 (EC)**

The representative of the project proponent Dr. A. Ragotham; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 4acres, out of which Green area is 1.32 acres (33%).

Nearest human habitation is Pothamshetpalle (V) @ 0.78km; Nearest water body is Haldi river a seasonal stream @1.8km; Nearest RF isGosanipalli@ 0.6km from the industry.

Project Cost for proposed expansion is Rs.15 Crores. Budget for Environmental protection towards Capital Cost is Rs. 5.75crores and Recurring Cost is Rs.5.23crores. Budget for CER is Rs.30 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	Abacavir sulfate	127	3.8
2	Alendronate Sodium	80	2.4
3	Atomoxetine HCl	32	0.96
4	Cetrizine Dihydrochloride	318	9.5
5	Citalopram HBr	795	23.9
6	Clopidogrel Bisulphate	206	6.2
7	Darunavir Ethanolate	127	3.8
8	Emitricitabine	32	0.96
9	Escitalopram Oxalate	25	0.8
10	Esomeprazole Magnesium Dihydrate	95	2.9
11	Levetiracetam	636	19.1
12	Levo Cetrizine di-Hydrochloride	64	1.9
13	Lopinavir	48	1.4
14	Metoprolol Succinate	574	17.2
15	Risperidone	795	23.9
16	Ritonavir Potassium	143	4.3
17	Zonisamide	48	1.4
18	1,2-dihydro-2-oxo-6-propylpyridine-4-carboxylic acid(PPC)	223	6.7
Total (Worst case 4 Products on Campaign Basis)		**2800**	**84.0**

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	 30 m 30 m	 Bag filter Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1 x 500 kVA	10 m each	Bag filter

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Process emissions containing Hydrogen chloride, Carbondioxide, Hydrogen. Hydrogen chloride is sent to scrubber in series. Sodium chloride from HCl and Chlorine scrubbing sent to effluent. The other gas expected in the process is Carbon dioxide and hydrogen, which 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	36		36
2	Washings	5		5
3	Scrubber	3		3
4	Boiler Feed	90		90
5	Cooling Tower	40	60	100
6	RO/DM Rejects	5		5
7	Domestic	10		10
8	Gardening	20		20
	Total water requirement	**209**	**60**	**269**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	38.6		38.6	Zero Liquid Discharge System and treated effluent reused in Boilers Make up and cooling tower.
2	Washings	5		5	
3	Scrubber Effluent	3		3	
4	RO/DM Plant Rejects	5		5	
5	Boiler Blow downs		4	4	
6	Cooling tower Blow downs		5	5	
7	Domestic		8	8	
Total effluent Quantity		**51.6**	**17**	**68.6**	

Details of Solid Waste:

Description	Quantity	Mode of Disposal
Ash from Boiler	15 TPD	Sold to Brick manufactures
Process Organic residue	5.57 TPD	Sent to TSDF/Cement Industries
Process Inorganic residue	1.58 TPD	Sent to TSDF
Solvent Residue	2.23 TPD	Sent to TSDF/Cement Industries
Spent Carbon	0.36 TPD	Sent to TSDF/Cement Industries
Hyflow	47.7 Kg/day	Sent to TSDF
Catalyst	127.2 Kg/day	Sent to Authorized agencies
Spent Solvents	58.9 KLD	Recovered within the plant premises.
Mixed Solvents	6.5 KLD	Sent to authorized recovery units/ Cement plants for co-incineration
Evaporation Salts	2.03 TPD	Sent to TSDF
Stripper Distillate	1.06 KLD	Sent to Cement Industries for Co-incineration.
ETP Sludge	1.98 TPD	Sent to TSDF
Detoxified containers	200 No.s/Month	After detoxification sent to Authorized agencies
Waste oil	800 LPA	Sent to Authorized Recyclers
Used batteries	8 No.s/year	Sent to Authorized Recyclers

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

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Minutes of the SEAC Meeting held on 25.09.2020

Agenda Item No. 19	**M/s. Fleming Laboratories Ltd., Unit 3, Survey No: 271, 272, Nawabpet Village, Shivampet Mandal, Medak District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/170477/2020 (EC)**

The representative of the project proponent Sri J. M. Prakash; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad attended and made a presentation before the 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 after proposed Expansion as follows:

Total area is 6.45acres, out of which Green area is 2.13 acres (33%).

Nearest human habitation is Anantharam(V) @ 1.45km; Nearest water body is Gummadidala Erra stream a seasonal stream @0.6km; Nearest RF is Biknoor @ 0.85km from the industry.

Project Cost for proposed expansion is Rs.42 Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.74crores and Recurring Cost is Rs.3.68crores. Budget for CER is Rs.84lakhs in first 5 years.

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

Manufacturing Capacity

S.No	Product Name	Capacity	
		Kg/day	TPM
	Active Pharma Ingredients - Synthetic Route		
1	Carisoprodol	770	23
2	Dapsone	200	6
3	Diltiazem hydrochloride pharma	350	11
4	Favipiravir	15	0.5
5	Lurasidone hydrochloride	20	0.6
6	Oxcarbazepine	350	11
7	Sugammadex Sodium	20	1
8	Ticagrelor	200	6
9	Trimetazidine Dihydrochloride	228	7
10	Topiramate	430	13
11	Vildagliptin	400	12
	Total - Worst Case 7 Products	**2728**	**82**
12	R&D and Validation Products	5	0.2
	Grand Total	**2733**	**82**
	Active Pharma Ingredients - Biotechnology		
1	Fusidic acid	15	0.5
2	Glutathione	100	3
3	Mupirosine	15	0.5
	Total - Worst Case One Product	**100**	**3**

List of By-Products

S.No	Name of Product	Stage	Name of By Product	Quantity (Kg/day)
1	Dapsone	II	Spent HCl (20%)	2500
2	Ticagrelor	III	Di isopropyl ethylamine HCl	79.3

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Proposed: 2 x 4 TPH	30 m	Bag filter
2	**DG Sets:** Proposed: 1 x 1010 kVA and 1 x 500 kVA	10 m & 5 m	Effective stack height
3	**Thermic Fluid Heater** Proposed: 1 x 2 Lakh K.cal/hr	10 m	Effective stack height

Process emissions contain Ammonia, Hydrogen, Hydrogen chloride, and Sulfur dioxide. Ammonia, Hydrogen chloride and Sulphur dioxide are sent to scrubber in series. Sodium chloride from Hydrogen chloride, ammonium chloride from ammonia, sodium bisulfate from sulfur dioxide scrubbing sent to ETP. 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 Synthetic Route API	43.9		43.9
2	Process-BiotechnologyAPI	25		25
3	Washings	3		3
4	Scrubber	2		2
5	Boiler Feed	45		45
6	Cooling Tower	34	120	154
7	RO/DM Rejects	10		10
8	Domestic	9		9
9	Gardening	5		5
	Total water requirement	**177**	**120**	**297**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	48.1		48.1	Zero Liquid Discharge System and treated effluent reused in cooling towers and boiler make-up.
3	Washings	3		3	
4	Scrubber Effluent	2		2	
5	RO/DM Plant Rejects	10		10	
6	Boiler Blow downs		5	5	
7	Cooling tower Blow downs		18.5	18.5	
8	Domestic		8.7	8.7	
Total effluent Quantity (Total I)		**63.1**	**32.2**	**95.3**	
Process Effluent from Products Manufactures Using Biotechnology **(Total II)**			33	33	
(Total I + Total II)		**63.1**	**65.2**	**128.3**	

Details of Solid Waste:

S.No	Description	Quantity	Mode of Treatment/Disposal
1	Ash from Boiler	2.88 TPD	Sold to Brick manufactures and cement plants
2	Organic residue	2.2 TPD	Sent to TDSF/Cement Plants for Co-incineration
3	Solvent Residue	2.96 TPD	Sent to TSDF/Cement Industries
4	Spent Solvent	60 KLD	Recovered within plant premises and reused
5	Mixed Solvent	10.7 KLD	Sent to authorized recovery units/Cement plants for co-incineration
6	Stripper Distillate	1.27 KLD	Sent to Cement Industries for Co-incineration.
7	Spent Carbon	93 Kg/day	
8	Inorganic Residue	1.21 TPD	Sent to TSDF
9	Evaporation salts	2.65 TPD	Sent to TSDF
10	ETP Sludge	530 Kg/day	Sent to TSDF

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S.No	Description	Quantity	Mode of Treatment/Disposal
11	Detoxified containers	30 No.s/Yr	Sold to authorized vendors
12	Waste oil	2.5 KLPA	Sent to Authorized Recyclers
13	Used batteries	10 No.s/Yr	Sent to Authorized Recyclers
14	Bio medical waste	5 Kg/Month	Sent to authorized common biomedical treatment facility
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

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

Agenda Item No. 20	**M/s. Piramal Enterprises Limited, Sy. No. 71, 77, 78, 79A to 80A, 81A & 82A, Digwal Village, Kohir Mandal, Sangareddy District - Environmental Clearance (Expansion) - Reg.**
Proposal No.	**SIA/TG/IND2/170587/2020 (EC)**

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

The SEAC noted that earlier, the MoE&F issued EC dt. 21.02.2007 for expansion of Bulk Drug unit to M/s. Aplex International Ltd.,

EC dt. 21.02.2007 for expansion of Bulk Drug Unit-2 to M/s. Nicholas Piramal Ltd.,

EC dt. 21.02.2007 for expansion of Bulk Drug unit-3 to M/s. Nicholas Piramal Ltd.,

The project proponent a copy of certified compliance report dt. 23.020.2015 of Regional Office, MoE&F, Chennai on EC conditions. In the report, it was reported that CFE orders (3 no.) were obtained on 05.05.2007 from APPCB separately. But, as per latest CFO, the unit has obtained CFO consolidately for all the three units in the name of M/s. Piramal Healthcare Ltd., However, it appears that no name transfer on EC has been done so far.

The proponent submitted latest CFO dt. 28.07.2018 valid upto 31.01.2021.

CFO issued on 10.03.2017from TSPCB vide order no.TSPCB/10042/RO-RR-II/HO/CFO/2017and the unit operating.

(Certified compliance Report Submitted on 31.08.2020)

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 after proposed Expansion as follows:

Total area is 79 acres, out of which Green area is 27acres (34%).

Nearest human habitation is Digwal village @ 0.15 km; Nearest water is Kotturu reservoir @ 7.2 km; Nearest RF isDigwal @2.5km.

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Project Cost for proposed expansion is Rs.250Crores. Budget for Environmental protection towards Capital Cost is Rs. 16.38 crores while recurring costs for is Rs. 50.55 crores/year. Budget for CER is Rs.300lakhs 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)		
		Phase I	Phase II*	Phase III**
	REGULAR PRODUCTS			
1	Abacavir Sulfate	28	27.4	27.4
2	Desflurane		548	822
3	Diltiazem Hydrochloride	440	548	548
4	Dry Vitamin A Acetate	411	479.5	548
5	Halothane	821	822	822
6	Isoflurane	3561.6	4931.5	5479.5
7	Ketoconazole	411	411	548
8	Mebeverine Hydrochloride	500	548	548
9	Sevoflurane		1370	1370
10	Sevoflurane (Bottling)	821.9	1370	1643.8
11	Trazodone Hydrochloride	302	479.5	548
12	Verapamil Hydrochloride	385	411	493.2
13	Vitamin A Alcohol	10	---	---
14	Vitamin A Palmitate	357	684.9	685
15	Vitamin E Alcohol	197.3	49.3	65.8
	Total - I	**8245.8**	**12679.5**	**14148**
	CAMPAIGN PRODUCTS			
1	Desflurane	275	---	---
2	Sevoflurane	877	---	---
3	[5,6-Dihydro-(S)-6-methyl-4-oxo-thieno (2,3,6) thiopyram-7,7-dioxide]	1	1	1
4	1H-Pyrazole-4-carbonitrile, (Saege, FCI 3387	6.8	9.6	13.7
5	2,4 - Dichloro pyrimidine (FCI 1271)	16.4	21.9	43.8
6	3-(4-chlorophenyl) glutaric acid monoamide	13.7	27.4	41.1
7	3-Methoxy-0, a- dimethyl-L-tyrosine HCl	13.7	27.4	41.1
8	4-Pregnen-21-oic acid-17α-ol-3-one-7α-thiol γ-lactone 7-acetate (Spironolactone)	137	274	411
9	Acyclovir	27.4	54.8	82.2
10	Amiodarone Hydrochloride	68.5	274	465.8
11	Apixaban	13.7	27.4	41.1
12	Apremilast	28	13.7	13.7
13	Aprepitant	2.7	5.5	5.5
14	Armodafinil	2.7	8.2	13.7
15	Azilsartan	6.8	13.7	27.4
16	Baclofen	13.7	27.4	54.8
17	Bexagliflozin(FCI 2780)	68.5	82.2	109.6
18	BGB API	13.7	68.5	137
19	BGB Compound 5 (FCI 3254)	6.8	27.4	54.8
20	BGB COMPOUND B* (FCI 3253)	6.8	27.4	54.8
21	BIOHEAVEN (FCI 3580)	19.2	27.4	27.4
22	BIOHEAVEN (FCI 3581)	19.2	27.4	27.4
23	BIOHEAVEN API (FCI 3582)	32.9	41.1	41.1
24	Bisoprolol Fumarate	13.7	68.5	137
25	Bittermelon	2.7	5.5	8.2
26	Brimonidine Tartrate	1.4	2.1	2.1
27	Canaglifoxin	27.4	54.8	109.6
28	Candesartan Cilexetil	2.7	5.5	13.7
29	Chloropurine	156.2	205.5	246.6

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S.No	Name of Product	Capacity (Kg/day)		
		Phase I	Phase II*	Phase III**
30	Cinacalcet.HCl	5.5	9.6	13.7
31	Cis Hydroxy Lactam	28.0	256.2	241.1
32	Clobazam	2.7	5.5	11
33	Clomipramie Hydrochloride	1	2.7	2.7
34	Clozapine	2.7	5.5	5.5
35	DAAH	27.4	95.9	164.4
36	Dabigatran Etexilate Mesylate	27.4	274.0	411
37	Dapagliflozin	6.8	13.7	20.5
38	Deferasirox	2.7	13.7	27.4
39	Desvenlafaxine Succinate monohydrate	547.9	82.2	159.6
40	Dexlansoprazole	13.7	48	68.5
41	DL-alpha Tocopherol	13.7	27.4	41.1
42	Donepezil Hydrochloride	6.8	13.7	21.9
43	Dronedarone Hydrochloride	13.7	41.1	82.2
44	Droxidopa	5.5	8.2	13.7
45	Dry Vitamin A Palmitate 500 (stabilized)	1.4	5.5	13.7
46	Dry vitamin D3 100 (WithBHT)	1.4	5.5	13.7
47	Dry Vitamin D3 850 (With BHA+ BHT)	4.1	8.2	13.7
48	DS102 (FCI 2540)	27.4	164.4	411
49	Edoxabantosylate monohydrate	13.7	27.4	102.3
50	Eluxadoline	109.6	137	164.4
51	Empagliflozin	13.7	27.4	54.8
52	Ethyl 2-cyanopropanoate, (ASA1 KSAI, FCI 3560)	8.2	13.7	13.7
53	FA (2,5-Bis (2,2,2-trifluoroethoxy)-2,2,2-trichloro acetophenone)	2.7	2.7	2.7
54	FCI 3040 (SHAIRE) LP002 (Mirom, FCI 3040)	2.7	4.1	5.5
55	FCI 3446	2.7	4.1	5.5
56	FCI 3485 (E SCAPE BIO)	6.8	9.6	13.7
57	Flecainide Acetate	14	6	6
58	FosaprepitantDimeglumine	0.8	1.4	2.7
59	Fostemsavir	2.7	13.7	27.4
60	Halofuginone Hydrobromide	1	2.7	2 7
61	Imeglimine(FCI3216)	137.0	274	402.7
62	Imipramine Hydrochloride	1	2.7	2.7
63	IodoanilineMethyltriazole	3	3	3
64	Irbesartan	54.8	137	164.4
65	Itraconazole 1330	49.3	49.3	49.3
66	Itraconazole 1333	68.5	68.5	68.5
67	Lamotrizine	27.4	137	274
68	Lercanidipine Hydrochloride	27.4	54.8	82.2
69	Levobunolol Hydrochloride	0.3	0.3	0.3
70	Linagliptin	5.5	13.7	27.4
71	Lisnopril Dihydrate	0.7	5.5	13.7
72	Lurasidone hydrochloride	13.7	20.5	27.4
73	Memantine Hydrochloride	1	2.7	2.7
74	Metaxalone	13.7	27.4	41.1
75	Methyl-2-(2-methyl-1H-pyrrolo [2,3-b] Pyridin-3yl) acetate (FCI-1641)	2.7	2.7	2.7
76	Mirabegron	13.7	27.4	68.5
77	Mirati(FCI 3322)	2.7	2.7	2.7
78	Netaglinide Hydrochloride	1	2.7	2.7
79	Opipramol Dihydrochloride	1	2.7	2.7
80	Paliperidone Palmitate	2.7	2.7	2.7
81	Paroxetine	45	45	45
82	Perindopril Erbumine	13.7	41.1	82.2

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S.No	Name of Product	Capacity (Kg/day)		
		Phase I	Phase II*	Phase III**
83	Pramipexole DiHCl Monohydrate	2.7	2.7	2.7
84	Promethazine Teoclate	8.2	13.7	20.5
85	Quetiapine Hemifumarate	2.7	2.7	2.7
86	Rivaroxaban	13.7	27.4	54.8
87	Sertraline Hydrochloride	27.4	68.5	109.6
88	Sodium Carboxymethyl Cellulose	2.7	2.7	2.7
89	SPHERA (FCI 2784)	6.8	9.6	13.7
90	SSPP (4aS, 7aS)-Octahydro-1H-Pyrrolo[3,4-b] Pyridine	19.2	19.2	19.2
91	Subeverone,(FCI 2807)	5.5	9.6	13.7
92	Succimer	6.8	9.6	13.7
93	Sugammadex	0.7	5.5	8.2
94	Sulindac	41.1	54.8	54.8
95	Tafenoquine Succinate	2.7	5.5	5.5
96	Telmisartan	54.8	137.0	137
97	Tetrabenazine	2.1	2.7	2.7
98	Tinefcon	0.3	2.7	2.7
99	Tocagen-5 flu-cyto	8.2	13.7	27.4
100	Tolcapone	13.7	13.7	13.7
101	TOSMIC	82.2	109.6	109.6
102	Tramadol Hydrochloride	2.7	2.7	2.7
103	Trientine	1.4	2.7	2.7
104	Valacyclovir Hydrochloride	27.4	54.8	82.2
105	Varenicline Tartarate	2.7	8.2	13.7
106	Vibegron	2.7	8.2	13.7
107	Vitamin AD3 500/50 solution with BHT	8.2	13.7	20.5
108	Vortioxetine	2.7	6.8	11
109	Ziprasidone Hydrochloride	2.7	5.5	8.2
	Total - II Worst Case 20 Products	**2888.6**		
	Total - II Worst Case 45 Products		**3858.7**	**5852.1**
110	R&D and Validation Products	10	10	10
	Grand Total (I+II) - 60 Products	**11144.4**	**16548.2**	**20010**

*Note: * Phase II includes Phase I* *** Phase III Includes Phase II*

List of By-Product– After Expansion

S. No	Name of By-Product	Name of Product	Stage	Quantity (Kg/day)		
				Phase I	Phase II	Phase III
1	P-Toluene Sulfonyl Sodium	Ketoconazole	I	150.1	150.1	200.2
2	Sodium Bromide (16%)	Halothane	I	2676	2679	2679
3	Sodium Formate	Isoflurane	I	549.3	760.5	845.1
4	Sodium Fluoride		I	678.5	939.5	1043.9
5	Spent HCl (20%)		II	1056.9	1463.4	1626
6	Spent Sulfuric acid	Memantine HCl	I	18	48.7	48.7
7	1,3-Dicyclohexyl urea	Clobazam	I	2.4	4.8	9.6
8	Potassium Methoxide			0.7	1.5	3
9	tert-Butylalcohol			0.8	1.6	3.2
10	Potassium methyl sulfate		II	1.5	3.1	6.1
11	Toluene	Sphera	III	10.9	15.2	21.7
12	Isopropyl alcohol	Bio Heaven (FCI 3581)	III	2.2	3.2	3.2
13	N,N-Diiso propyl ethyl amine HCl salt	Vibegron	I	2.4	7.2	11.9
14	Trimethylmethoxysilane			1.5	4.5	7.5
15	Trimethylsilanol			0.6	1.9	3.2
16	Sodium Chloride			0.9	2.7	4.4
17	5-Ethynyl-2'-deoxyuridine		II	1.8	5.3	8.9

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Boilers:** Existing: 1 x 4 TPH,1x 6 TPH,1x16 TPH Coal Fired Boilers, 1 x 6 TPH Oil Fired Boilers Proposed: 1 x 32 TPH Coal/ Briquette fired Boilers	30 m, 30m. 40m, 30m 45m	Bag filters Bag filters electro static precipitator (ESP)
2	**DG Sets:** Existing: 2 x 1010 kVA, 2 x 1000 kVA,3 x 750 KVA, 1 x 725 KVA, 3 x 500 KVA. 2 x 380 KVA Proposed: 2x1000 kVA,4x1000, 5x1000	7 m,7m,6 m,5 m,4m,4m 7m,7m,7m	Effective stack height Effective stack height Effective stack height
3	**Thermic Fluid Heaters** Existing: Nil Proposed 2 x 4 Lac . k.cal	10	Effective stack height

The process emissions containing Ammonia, hydrogen chloride, hydrogen bromide. sulfur dioxideemissions are sent to a scrubber with dilute caustic medium and the resultant scrubbing effluent is sent to ETP. The other gases are carbon dioxide, nitrogen, oxygen, which are let out into atmosphere following a standard operating procedure while hydrogen gas is let out into atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Fresh (KLD)	Recycled (KLD)	Total (KLD)
1	Process	479.3		479.3
2	Washings	30		30
3	Scrubber	25		25
4	Boiler	175	200	375
5	Cooling Towers	650	795	1445
6	RO/DM Plant	45		45
7	Domestic	100		100
8	Gardening	110		110
	Total water requirement	**1614.3**	**995**	**2609.3**

Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	480.1		480.1	Zero Liquid Discharge System and treated effluent reused in cooling towers make-up, Boilers Make up.
2	Washings	30		30	
3	Scrubber Effluent	25		25	
4	RO/DM Plant Rejects	45		45	
5	Boiler Blow downs + contaminated steam from MEE		198.6	198.6	
6	Cooling tower Blow downs		180	180	
7	Domestic		94	94	
Total effluent Quantity		**580.1**	**472.6**	**1052.7**	

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Details of Solid Waste

S. No	Description	Quantity	Mode of Treatment/ Disposal
		18.7 TPD	Sent to TSDF/Cement Plants for Co-incineration
2	Solvent Residue	13.4 TPD	
3	Stripper Distillate	14.8 KLD	
4	Spent Carbon	454.5 Kg/day	
5	Hyflow	798 Kg/day	Sent to TSDF
6	Spent Mixed Solvents	207.8 KLD	Sent to authorized recovery units/Cement plants for co-incineration
7	Spent Solvents	385 KLD	Recovered within the plant premises.
8	Inorganic residue	881 Kg/day	Sent to TSDF
9	Catalyst	373.3 Kg/day	Sent to TSDF
10	Evaporation salts	31.6 TPD	Sent to TSDF
11	ETP Sludge	9.4 TPD	Sent to TSDF
12	Ash from Boiler	14.2 TPD	Sold to Brick manufactures
13	Detoxified containers & liners	8500 No.s/month	Sold to authorized vendors
14	Off-Separation & discarded product	65 Kg/day	Sent to TSDF
15	Discarded waste mineral from dust collector, Vacuum system & floor sweeping and resign from DM plants	200 Kg/day	Sent to TSDF
16	Waste oil	14.7 KLD	Sent to Authorized Recyclers
17	Used Lead acid batteries	70 No.s/Yr	

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:

1. Sri Suresh
2. Sri Shiva Kumar
3. Sri Ch. Krishna Reddy

CHAIRMAN, SEAC

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Agenda Item No. 21	**M/s. Fugen Laboratories Private Limited, Survey No. 736 & 737, Mandollagudem (V), Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/168317/2020 (EC)**

The representative of the project proponent Sri K. Venkatesh; and Sri Santosh Reddy of M/s. AM Enviro Engineers, Hyderabad attended and made a presentation before the SEAC.

The industry has no EC, as the unit was established in the year 2005, as CFE dt. 28.02.2005 for manufacturing of Bulk Drug Intermeidates.

As per lastest CFO dt.23.04.2016 & CFO amendment dt.08.02.2018 valid upto 31.07.2020 and it srenewal is under process at TSPCB as informed by the project proponent.

CFE issued on First CFE Issued on 28.02.2005

CFO issued on For CFO Renewal applied on July 2020 [CFO Copy yet to receive] from and the unitoperating / not.Unit is under operation

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 after proposed Expansion as follows:

Total area is **22257.70 Sq.m**. out of which Green area is **7345.04Sq.m**.

Nearest human habitation is **Lingareddygudem@ 1.4 km**; Nearest water body is Tangallapallicheruvu@ 8.2 km from the industry.

Project Cost for proposed expansion is Rs. 8.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.240.0 Lakhs and Recurring Cost is Rs. 13.0 Lakhs/annum. Budget for CER is Rs. 8.0 lakhs in first 5 years.

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

Products:

S. NO	NAME OF THE PRODUCT	CAPACITY KGS/MONTH	CAPACITY KGS/DAY
	DRUG INTERMEDIATES		
1	(2S)-(1-Tetrahydropyramid-2-One)-3-Methylbutanoic Acid	20000	666.67
2	(R,Z)-5-Amino-2-(Dibenzylamino)-1,6-Diphenylhex-4-En-3-One	15000	500.00
3	2,4-Dichloro-6,7-Dimethoxy Quinazoline	5000	166.67
4	L-Valine Methyl Ester Hydrochloride	15000	500.00
5	2-Phenylbenzimidazole-5-Sulfonic Acid	10000	333.33
6	Ketorolac - acid	5000	166.67
7	4-Bromo-3,5-Dimethylphenol	5000	166.67
8	2-Amino-5-Bromo-3-Methylpyridine	10000	333.33
9	3, 4-Dihydroxy-5-Nitro Benzaldehyde	5000	166.67
10	2-Acetyl-6-Methoxynaphthalene	10000	333.33
11	(R)-(-)-3-Aminopiperidine Dihydrochloride	5000	166.67

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S. NO	NAME OF THE PRODUCT	CAPACITY KGS/MONTH	CAPACITY KGS/DAY
ACTIVE PHARMACEUTICAL INGREDIENTS [API'S]			
12	Sitagliptin Phosphate	5000	166.67
13	Lopinavir	5000	166.67
14	Ritonavir	5000	166.67
15	Olmesartan	3000	100.00
16	Telmisartan	3000	100.00
17	Linagliptin	2000	66.67
18	Vildagliptin	2000	66.67
19	HydroxychloroquineSulphate	10000	333.33
20	Losartan Potassium	10000	333.33
21	Cetirizine HCl	10000	333.33
22	Montelukast Sodium	5000	166.67
23	R& D Products	250	8.333
	Total (Worst case: any 6 products at any point of time)	**80000**	**2666.667**

By-products:

S. NO	NAME OF THE BY-PRODUCT	QUANTITY IN KG/DAY	DISPOSAL
1	Aluminium Hydroxide Solution	1749	For Sale
2	Hydrochloric acid	378	Reuse/Sale

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boiler:** Proposed : **3 & 5TPH**	40 m 30 m	Cyclone separators with Bag filters.
2	**Thermic fluid heater** Proposed: 1 x 2 Lakh K.cal/hr	15 m	
3	**DG Sets:** Proposed:**380 kVA & 625 kVA**	Adequate height	Acoustic enclosure

The process emissions containing Sulphur dioxide, Hydrogen Chloride, Hydrogen & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Oxygen is to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely dispersed into the atmosphere through water column.

Details of Water requirement after expansion:

S. No.	Water required for	Quantity (KLD)	Total (KLD)
1	Process	38.38	**Fresh water Requirement is 190. 38-38 = 152.38 KLD**
2	Washings	4	
3	Biotech R& D	-	
4	Scrubber	5.0	
5	Boiler Feed	50.00	
6	Cooling Tower	83.00	
7	RO/DM Rejects	-	
8	Domestic	6.00	
9	Gardening	4.00	
	Total	190.38	

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Details of Effluent generation, treatment & disposal after expansion:

S. No.	Effluent generated from	HTDS (KLD)	LTDS (KLD)	Total (KLD)	Treatment & Disposal
1	Process	41.562	5.812	47.374	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	-	4.00	4.00	
3	Biotech and R&D Lab	-	-	-	
4	Boiler blow down	-	7.00	7.00	
5	Cooling tower bleed of	-	8.50	8.50	
6	Scrubber	6.0	-	6.0	
7	RO/DM Plant Rejects	-	-	-	
8	Domestic	-	6.0	6.0	
Total :		47.562	31.312	78.874	

Details of Solid Waste after expansion:

S.No	Description	Quantity	Mode of Disposal
1	Process Organic residue	3.331TPD	Sent to cement plants for co-incineration/TSDF
2	Solvent residue	1.983 TPD	
3	Spent Carbon	255 Kg/day	
4	Evaporation Salts	5.002TPD	Sent to TSDF
5	ETP Sludge	100 Kg/day	
6	Boiler Ash	8.0TPD	Sent to brick manufacturers
7	a) Detoxified Container / Liners drums b) HDPE Carboys/ Drums	1000No. s/ month	Disposed to TSPCB Authorized agencies after complete detoxification
8	Spent Solvents	4.0KLD	Recovered within plant premises and reused
9	Stripper Distillate	0.5KLD	Sent to cement plants for co-incineration/TSDF
10	Waste oils & Grease	1.0KL/year	Sent to authorized agencies
11	Used Lead acid Batteries	4No.s/year	Sent to suppliers on buy back basis
12	Inorganic solid waste	681 kg/day	Sent to TSDF

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Sri Vinod Goud
2. Sri Shiva Kumar
3. Sri Ch. Krishna Reddy

CHAIRMAN, SEAC

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Agenda Item No. 22	**M/s. Jet Life Sciences, Sy. No. 401/e & 401/ee, Chinna Shivunoor (V), Chegunta (M), Medak District - Environmental Clearance - Reg.**
Proposal No.	**SIA/TG/IND2/161771/2020 (EC)**

The representative of the project proponent Sri P. Mahadev; and Sri Vamsee Krishna of M/s. Hubert Enviro Care Systems, Hyderabad attended and made a presentation before the 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 proposed project as follows:

Total area is 10,198.08 Sq.m, out of which Green area is 3365.36 Sq.m (33 %).

Nearest human habitation is ChinnaShivnoor (V) @ 0.3 km; Nearest water body is Wadiram Lake @ 1.15 km; Nearest RF is GosanipalliRF @ 2.87 km from the industry.

Project Cost proposed is Rs. 15.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 450 Lakhs and Recurring Cost is Rs. 45 Lakhs/annum. Budget for CER is Rs. 30 lakhs in first 5 years.

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

Products:

S. No	Product Name	Proposed Qty (Kg/day)	Proposed Qty (TPM)
1	Olmesartan	166.66	5.0
2	Glimepiride	166.66	5.0
3	Doxylamine	166.66	5.0
4	Dorzolamide	166.66	5.0
5	Darunavir	166.66	5.0
6	Luliconazole	166.66	5.0
7	DapoxetineHydrochlolride	66.66	2.0
8	TapentadolHcl	66.66	2.0
9	Tadalafil	166.66	5.0
10	Apixaban	66.66	2.0
11	Atenolol	166.66	5.0
12	Emphagliflozin	66.66	2.0
13	Tenofavir	166.66	5.0
14	Glibenclimide	66.66	2.0
15	Glipizide	66.66	2.0
16	Levetiracetam	166.66	5.0
17	Memantine	100	3.0
18	Quinapril Hydrochloride	66.66	2.0
19	Montelukast	66.66	2.0
20	Remdesavir	333.33	10.0
21	Galidesivir	66.66	2.0
22	Sumatriptan Succinate	66.66	2.0
23	Pirfenidone	100	3.0
24	Tofacitinib	100	3.0
25	Raltegravir Potassium	100	3.0
26	Clopidogrel bi sulphate	100	3.0
Total		**3166.53**	**95.00**

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Intermediates:

S. No	Intermediates Name	Proposed Qty (Kg/day)	Proposed Qty (TPM)
1	(2S,3S,5S)-2 amino-3-hydroxy-5-(tert-butyloxy carbonyl) amino-1,6-diphenyl hemi succinic acid salt (BDH) [Ritanovir Intermediate]	166.66	5.00
2	Carbonic acid -4-nitro phenyl-5-thiazoly methyl ester [NCT] (Ritanovir Intermediate)	100	3.00
3	[2S,]-3 Methyl-2-([methyl-2-([methyl-([2-(1- methyl ethyl) thiazole-4-yl)methyl) carbonyl) amino) butanoic acid (MTV) (Ritanovir Intermediate)	200	6.00
4	2S,3S,5S-2 amino-3-hydroxy-5-(1-tetra hydropyrmid-2-on-yl)-3-methyl butanoyl) amino- 1,6-diphenyl hexane-S-pyro glutamate (THP) (Lopinavir Intermediate)	250	7.50
5	2,6-Dimethyl phenoxy acetyl chloride (DPC) [Lopinavir Intermediate]	200	6.00
6	(S,Z)-5-Amino-2-(dibenzylamino)-1,6- diphenythex-4-en-3-one (DAH)(Lopinavir Intermediate)	333.33	10.00
7	(2S,3S,5S)-2 amino-3-hydroxy-5-(tert-butyloxy carbonyl) amino-1,6-diphenyl hemi succinic acid salt (BDH) [Ritanovir Intermediate]	166.66	5.00
8	Carbonic acid -4-nitro phenyl-5-thiazoly methyl ester [NCT] (Ritanovir Intermediate)	100	3.00
9	[2S,]-3 Methyl-2-([methyl-2-([methyl-([2-(1- methyl ethyl) thiazole-4-yl)methyl) carbonyl) amino) butanoic acid (MTV) (Ritanovir Intermediate)	200	6.00
10	2S,3S,5S-2 amino-3-hydroxy-5-(1-tetra hydropyrmid-2-on-yl)-3-methyl butanoyl) amino- 1,6-diphenyl hexane-S-pyro glutamate (THP) (Lopinavir Intermediate)	250	7.50
11	2,6-Dimethyl phenoxy acetyl chloride (DPC) [Lopinavir Intermediate]	200	6.00
12	(S,Z)-5-Amino-2-(dibenzylamino)-1,6- diphenylhex-4-en-3-one (DAH)(Lopinavir Intermediate)	333.33	10.00
13	(2S)-(1-Tetrahydropyramid-2-one)-3- methylbutanoic acid (TPA)(Lopinavir Intermediate)	266.66	8.00
14	5-Hydroy methyl thiazole (Ritanovir Intermediate)	133.33	4.00
15	Hexahydrofuro[2,3-b]furan-3-ol (Darunavir Intermediate)	100	3.00
16	EthylEster of 4-(Hydroxy-1-MethylEthyl)-2- PropylImidazole-5-Carboxylic acid (Imidazole Ester)	133.33	4.00
17	5-(4-BromoMethyl-1,1-Biphenyl-2-Yl)-1- TriPhenylMethyl-1H-Tetrazole(TTBB)	200	6.00
18	4-Chloromethyl-5-Methyl-2-Oxo-1,3-Dioxolene (Chloro derivative of Olmesartan)	200	6.00
19	5-Methyl-2-OXO-1,3 DiOxolen-4-Yl Methyl-4-(1- Hydroxy-1-Methylethyl)-2-Propyl-1-{4-(2- Trityltetrazol-5-Yl)Phenyl]Phenyl} Methyl Imidazole-5-Carboxylate (OTL-III)	100	3.00
20	5,8-Dihydro Naphtol (5,8-DHN)	100	3.00
21	PiroctoneOlamine	666.66	20.00
22	4-[2-(3-Ethyl-4-Methyl-2-oxo-3-Pyrrolin Carboxamide)ethyl BenzenSulfonamide (PPS))	166.66	5.00
23	Trans-4-MethylCyclohexyl Isocyanate (ICY)	166.66	5.00
24	2 Benzyl pyridine (2BP)	333.33	10.00
25	2 Benzoyl Pyridine (BOP)	166.66	5.00
26	1-Methyl-1-Phenyl-1-(2-Pyridyl) Methanol Hydrochloride (MPH)	166.66	5.00
27	5,6 –Dihydro-6-Methyl-4-Oxo-4H-Thieno[2,3- B]Thioppyran-2-Sulfonamide (DOZ)	33.33	1.00
	Total Intermediates Qty	**5433.26**	**163.00**
1	Palladium on Carbon (catalyst)	250	7.50
	Total Catalyst Qty	**250**	**7.50**

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By-products:

S. No	Name of the By Product	Name of the Source Product	Proposed Qty (kg/day)	Proposed Qty (TPM)
1	Sodium Sulphate	Lopinavir, Ritanavir	150	4.5
2	Potassium chloride	DAH	323	9.69
3	P-Toluene sulphonic acid	Tenofovir	110	3.3
5	Ammonium Chloride	THP, BDH	766	22.98
6	T- Butanol	Remdisavir	49	1.47
7	Acetic acid	Galidesavir.	50	1.5
		Total (kg/day)	**1473**	**44.19**

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boiler:** Proposed: 2 x 6 TPH (Standby)	26 m	bag filter & Cyclone Separator
3	**DG Sets:** Proposed; 2 x 750 kVA	Adequate height	Acoustic enclosure

The process emission containing the Carbon dioxide will be dispersed into the atmosphere. The process emission containing Hydrogen will be diffused by using Nitrogen through Flame Arrestor. The process emission containing Ammonia will be scrubbed by using chilled water media. The process emission containing Acetic acid, Chloromethane and Sulphur dioxide will be scrubbed by using C.S. Lye Solution.

Details of Water requirement (Proposed):

S. No	Water Requirement	Fresh water (KLD)	Recycled (KLD)	Total water requirement (KLD)
1	Domestic	9	-	9
2	Process	42.61	-	42.61
3	Washing/Lab	-	8.64	8.64
4	Boiler Feed Water	-	33.32	33.32
5	Cooling Tower Make up	-	4	4
6	Gardening	-	10	10
	Total	**51.61**	**55.96**	**107.57**

Details of Effluent generation, treatment & disposal after expansion:

S. No	Effluent Stream	Effluent Qty (KLD)	Method of disposal
1	**LTDS (15.14 KLD)**		*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	8.64	
	Boiler blow down	5.0	
	cooling tower blow down	1.5	
2	**HTDS (38 KLD)**		
	Process	38	
3	**SEWAGE**	8	

CHAIRMAN, SEAC

Details of Solid Waste after expansion:

S. No	Name of the Hazardous waste	Quantity	Disposal Method
1	Discarded containers/ barrels/liners contaminated with hazardous wastes / chemicals	300 Nos	Shall be disposed to TSPCB authorized recyclers
2	Organic residue	5200 Kg/day	Shall be disposed to TSDF
3	Spent Carbon	300 Kg/day	Shall be disposed to TSPCB authorized recyclers
4	Waste oil/used oil	4 KL/A	Shall be disposed to TSPCB authorized recyclers
5	MEE Salts	1960 Kg/Day	Shall be sent to TSDF
6	ETP Sludge	200 Kg/Day	Shall be sent to TSDF
7	Process Inorganic waste (kg/day)	1650 Kg/Day	Shall be sent to TSDF
8	Boiler ash	450000 Kg/Year	Authorized Brick manufacturers
9	Organic	54 Kg/day	Municipal local bins
10	Inorganic	36 Kg/day	TSPCB Authorized Recyclers

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

Agenda Item No. 23	**M/s. Aster Industries, Sy. No. 717, Kondamadugu (V), Bibinagar (M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg.**
Proposal No.	**SIA/TG/IND2/162920/2020 (EC)**

The representative of the project proponent Sri Y. Rama Raju; and Sri Vamsee Krishna of M/s. Hubert Enviro Care Systems, Hyderabad attended and made a presentation before the SEAC.

Existing Plant Operate with (CTO) vide No. TSPCB/RCP/NLG/HO/CFO/2016-2353 dated 24.11.2016 valid up to 31.12.2020. Existing facility is in operation since 2000 with a valid consent.

Existing Plant Operate with (CTO) vide No. TSPCB/RCP/NLG/HO/CFO/2016-2353 dated 24.11.2016 valid up to 31 12.2020. Existing facility is in operation since 2000 with a valid consent.

CFE issued on vide No. TSPCB/RCP/NLG/HO/CFO/2016-2353 dated 24.11.2016 valid up to 31.12.2020

CFO dt.24.11.2016 valid upto 31.12.2020 to manufacture 3 no. preservative products on campaign basis. Now proposed expansion of the project.

The proponent submitted self compliance Report on CFO conditions.

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 4046.86 Sq.m, out of which Green area is 1618.75 Sq.m (40 %).

Nearest human habitation is Mahadevpur(V) @ 1.12 km; Nearest water body is Canal @0.15 km; Nearest RF is KondamaduguRF @ 2.69 km from the industry.

CHAIRMAN, SEAC

Project Cost for proposed expansion is Rs. 2.245 Crores. Budget for Environmental protection towards Capital Cost is Rs. 154.5 Lakhs and Recurring Cost is Rs. 15.45 Lakhs/annum. Budget for CER is Rs. 2.24 lakhs in first 3 years.

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

Products:

S.No	Product Name	Product Category	Existing	Proposed	After Expansion
1	Sodium Methyl Paraben	Preservative	230 kg/day (69 TPA)	-	66.67 Kg/day
2	Sodium Propyl Paraben	Preservative	216 kg/day (64.8 TPA)	-	230.0 Kg/day
3	Bronopol	Preservative	14 kg/day (5 TPA)	-	30.0 Kg/day
4	Atorvastatin	Anti-cholestorol	-	100 Kg/day	100 Kg/day
5	Sotalol	Anti-arrhythmic	-	200 Kg/day	200 Kg/day
6	Fluconazole	Antifungal	-	300 Kg/day	300 Kg/day
		Total products capacity	460 kg/day 138.8 TPA	600 kg/day	926.67 kg/day
		Max. Production Capacity (kg/day) One product at any point of time	**230**	**300**	**300**

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boiler:** Existing: 1 x 0.2 TPH Proposed: 1 x 1 TPH	20 m 20m	Cyclone separator
2	**Thermic fluid heater-** Existing: 1 x 2Lakh Kcal/Hr	20m	--
3	**DG Sets:** Proposed; 1 x 165 kVA	Adequate height	Acoustic enclosures

The process emission containing the Carbon dioxideand Oxygen will be dispersed into the atmosphere. The process emission containing Hydrogen Chlorideand Sulphur dioxide will be scrubbed by using C.S. Lye Solution. The process emission containing Chloromethane, Methane, Iso Propyl Alcohol, Toulene and Acetonewill be scrubbed by using chilled water media.

Details of Water requirement after expansion:

S. No	Description	After Expansion (KLD)	
		Fresh water	Recycled water
1	Process	8.56	-
2	Washing	1.16	0.84
3	Boiler feed	-	2
4	Cooling tower	-	3.5
5	Domestic	2.7	-
6	Green Belt	-	4.86
	Total	**12.42**	**11.2**

CHAIRMAN, SEAC

Details of Effluent generation, treatment & disposal after expansion:

S. No	Description	After Expansion (KLD)	Treatment Method
1	Process	8.36	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	Washing	2	
3	Boiler Blow down	0.4	
4	Cooling tower blow down	0.4	
5	Condensate from MEE & ATFD	16.8	
6	Sewage	2.4	
	Total	30.36	

Details of Solid Waste after expansion:

S. No	Description	Qty	Disposal Method
1	Process Sludge (Sodium Chloride)	40(kg/day)	TSDF, Dundigal, Medchal District for Secured land filling
2	Forced Evaporation Sludge	10 (kg/day)	TSDF, Dundigal, Medchal District for Secured land filling
3	Used oil / Waste lubricating oil	25 (Ltrs/year)	TSPCB Authorized Reprocessors / Recyclers
4	Container & Container liners of hazardous chemicals & hazardous waste	35 (Nos/month)	After complete detoxification, sent to TSPCB authorized agencies

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
v) ETP modifications
vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per ER-I.
viii) Raw material: Comparison of existing and proposed (which are going for expansion)
ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.
xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Sri C. Venkateshwar
2. Sri Ch. Krishna Reddy

Ch. Reddy

CHAIRMAN, SEAC

Minutes of the SEAC Meeting held on 25.09.2020

Agenda Item No. 24	**M/s. Jai Sriram Chemicals (Formerly known as M/s. Vasudeva & Co.), Sy.No. 242& 245, Nawabpet Village, Shivampet Mandal, Medak District - Environmental Clearance (Expansion) - Reg.**
Proposal No.	**SIA/TG/IND2/166381/2020 (EC)**

The representative of the project proponent Sri J.R.K. Rao; and Sri Vamsee Krishna of M/s. Hubert Enviro Care Systems, Hyderabad attended and made a presentation before the SEAC.

The proponent informed that the existing unit obtained CFO dt. 02.03.2018 valid up to 31.07.2021 for manufacturing inorganic products which did not require EC. Now, the industry proposed expansion to manufacture APIs within the existing facility along with existing products.

Submitted self compliance Report of CFO conditions.

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 11250.26 Sq.m, out of which Green area is 3712.58 Sq.m (33 %).

Nearest human habitation is Nawabpet(V) @ 1.52 km; Nearest water body is Canal @10.72 km; Nearest RF is Nawabpet RF @ 0.56 km from the industry.

Project Cost for proposed expansion is Rs. 3.00 Crores. Budget for Environmental protection towards Capital Cost is Rs. 95.5 Lakhs and Recurring Cost is Rs. 4.5 Lakhs/annum. Budget for CER is Rs. 3.0 lakhs in first 3 years.

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

Products:

S. No	Product Name	Product Category	Existing	Proposed	After Expansion
1	Di-Calcium Phosphate (CaHPO4) (Kg/day)	Inorganic	333.33	—	333.33
2	Calcium Chloride (CaCl2) (Kg/day)	Inorganic	333.33	--	333.33
3	Fexofenadine Hydrochloride (Kg/day)	API	--	300	300
4	Fluconozole (Kg/day)	API	--	300	300
5	Clopidogrel bi sulphate (Kg/day)	API	—	100	100
6	Albendazole (Kg/day)	API	--	200	200
7	Ciprofloxacin Hydrochloride(Kg/day)	API	--	333.33	333.33
8	Lopinavir (Kg/day)	API	--	200	200
9	Ritanovir Kg/day)	API	--	150	150
10	Chloroquine (Kg/day)	API	--	166.66	166.66
11	Hydroxy chloroquine (Kg/day)	API	--	300	300
12	Remdesavir (Kg/day)	API	--	200	200
13	Darunavir (Kg/day)	API	--	100	100
14	Favipiravir (Kg/day)	API		100	100
15	Oseltamivir (Kg/day)	API	--	100	100
16	Levosulpride (Kg/day)	API	--	200	200
17	Galidesivir (Kg/day)	API	--	100	100
Total (kg/Day) (manufacturing of 3 products at any point of time)			**666.66**	**2849.99**	**3516.65**

CHAIRMAN, SEAC

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

S.No.	Utility	Stack Height (mt)	APCE
1	**Coal fired Boiler:** Existing: 1 x 0.5 TPH Proposed: 1 x 4 TPH	15 m 30 m	Cyclone separator
2	**DG Sets:** Existing: 1 x 25 kVA Proposed; 1 x 500 kVA	Adequate height	Acoustic enclosures

The process emission containing the **Carbon dioxidewill** be dispersed into the atmosphere. The process emission containing **Hydrogen Chloridewill** be scrubbed by using an activated alumina compound impregnated with materials to handle specific gases such as hydrogen Sulfide. The process emission containing **Ammonia** will be scrubbed by using aqueous acid solution. The process emission containing **Nitrogen Dioxidewill** be scrubbed with alkali media and by using chilled water media.

Details of Water requirement after expansion:

Source Consumption	After Expansion (KLD)	
	Fresh water	Recycled
Domestic	1.8	-
Process & Washings	40	--
Boiler	-	15
Scrubber	-	1.2
Cooling Tower	-	20
Green Belt	-	9
Sub Total	**41.8**	**45.2**
Grand Total	**87**	

Details of Effluent generation, treatment & disposal after expansion:

Source	After Expansion (KLD)	
	Effluents	Treatment
Domestic	1.6 (LTDS)	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.
Process & Washings	38 (HTDS)	
Boiler	4.0 (LTDS)	
Scrubber	0.5 (LTDS)	
Cooling Tower	6 (LTDS)	

Details of Solid Waste after expansion:

S. No	Type of Hazardous waste	Quantity	Disposal Method
1	Used oil	60 (lbs/Annum)	Board's Authorized Recycler / Reprocessor or TSDF i.e., M/s. Hyderabad Waste Management Project, Dundigal .
2	FE Salts/MEE Salts	150 (kg/day)	TSDF i.e., M/s. Hyderabad Waste Management Project, Dundigal.
3	Process Organic Residue	421 (kg/day)	TSDF / Cement industries for co processing
4	Inorganic Waste	807.08 (kg/day)	TSDF
5	Spent carbon	123 (kg/day)	TSDF / Cement industries for co processing

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S. No	Type of Hazardous waste	Quantity	Disposal Method
6	Spent Hyflow	7.5 (kg/day)	TSDF
7	ETP Sludge	10 (kg/day)	TSDF
8	Spent Solvent	60 KLD	
9	Containers and Containier liners	1000 (Nos /annum)	After complete detoxification, shall be sold to Authorized agencies
10	Used batteries	2000 (Nos /annum)	Sold to battery manufactures/dealers on buy back basis
11	Boiler ash	600 (Kg/Day)	Authorized Brick manufacturers

After detailed discussions, the SEAC decided to constitute a Sub-Committee with the following members to inspect the unit, verify records and submit a report on the following:

i) Distance of the industry from the nearest boundary of Patancheru and Bollaram Industrial Areas.
ii) Project modification
iii) Project cost
iv) ZLD System & its adequacy
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vi) Products: Comparison of existing and proposed (which are going for expansion)
vii) Verify Production details w.r.t. permitted for the past one year, as per FR-I.
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ix) Solid waste: Comparison of existing and proposed (which are going for expansion)
x) Impact on surroundings
xi) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
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xiii) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xiv) Greenbelt development

Members of Sub-Committee:
1. Sri C. Venkateshwar
2. Sri R.S. Mantri
3. Sri Ch. Krishna Reddy

CHAIRMAN, SEAC

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