Submitted to SEIAA for information.

M.S) SEIAA)

19/5/20

20/5/2020

Sr. Se. O
SEIAA

Proceedings of the 242nd SEAC Online Meeting held on 7th and 8th May 2020

7th May 2020

Members present in the meeting:

Sri. N. Naganna	-	Chairman
Dr. B. Chikkappaiah,IFS(R)	-	Member
Dr.N Krishnamurthy	-	Member
Dr M.I Hussain	-	Member
Sri G T Chandrashekrappa	-	Member
Sri M. Srinivasa	-	Member
Sri J.G Kaveriappa	-	Member
Dr K.B Umesh	-	Member
Dr. Vinod Kumar C.S	-	Member
Sri D. Raju	-	Member
Sri Vyshak V Anand	-	Member
Sri Md.Saleem I Shaikh	-	Member
Dr. B.E Yogendra	-	Member
Dr.S.Venkatesan IFS	-	Secretary

The Chairman, SEAC, Karnataka welcomed the members of the Committee and others present during the online meeting. All the members present confirmed that they had received the full set of copies of the project documents which are submitted to the Authority by the project proponent through E-mail, to be appraised in 242nd SEAC meeting. The following proposals listed in the agenda were appraised online in accordance with the provisions of EIA Notification 2006. The MoEF Notification Dated: 27th March 2020 pertaining to categorization of projects or activities in respect of Active Pharmaceutical Ingredients (API) and the O.M Dated: 13-04-2020 pertaining to Expeditious disposal of projects or activities in respect of Active Pharmaceutical Ingredients (API) through video conference due to COVID-19 were brought to the notice and read before the committee. The observation and decision of the Committee are recorded under each of the agenda items.

Confirmation of the proceedings of **241st SEAC meeting** held on 23rd and 24th April 2020

The State Expert Appraisal Committee, Karnataka perused the proceedings of 241st SEAC meeting held on 23rd and 24th March 2020 and confirmed the same.

7th May 2020
10:00 AM to 2:00PM
EIA Project

242.1 EIA PROJECT-Proposed Change in product mix in existing manufacturing facility Project at Plot No.8C & 9A of Bashettihalli Village, Doddaballapur Taluk, Bangalore Rural District **by M/s. Resonance Laboratories Pvt. Ltd (SEIAA 15 IND (VIOL) 2018)**

Sl. No	PARTICULARS	INFORMATION

1	Name & Address of the Project Proponent		Dr. Tushar Gore-Director M/s. Resonance Laboratories Pvt. Ltd. 8C & 9A KIADB Industrial Area Bashettihalli, Doddaballapur Bengaluru – 561203
2	Name & Location of the Project		M/s. Resonance Laboratories Pvt. Ltd. 8C & 9A KIADB Industrial Area Bashettihalli, Doddaballapur Bengaluru – 561203 Karnataka State.
3	Co-ordinates of the Project Site		Latitude: 13°15'37.66"N Longitude: 77°33'30.23"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Aradeshanahalli Lake- 3.07 Km SSE
	b.	Distance from Protected area notified under wildlife protection act	No
	c.	Distance from the interstate boundary	No
	d.	Whether located in critically / severally polluted area as per the CPCB norms	No
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		5(f) category 'B' It is an Existing project falls, under category B, but as per MoEF & CC Notification dated 14th March 2017 even category B projects shall be appraised for grant of Environmental Clearance only by Expert Appraisal Committee & Environmental Clearance will be granted by MoEF &CC. The file was uploaded to MoEF Portal, vide proposal no. IA/KA/IND2/66847/2017, dated 20.06.2017. Now, As per MOEF&CC gazette notification no. S.O.804 (E) dated 14th March, 2017 and its subsequent amended gazette Notification No. S.O. 1030 (E) dated 8th March 2018 and OM F. No. Z-11013/22/2017-IA.II (M) dated 15th March 2018 & 16th March 2018, MoEF directed to appraise in SEAC/SEIAA. Now, Resonance laboratories is applying at KSEIAA under Category B.

6	New/ Expansion/ Modification/ Product mix change	Change in product mix
7	Plot Area (Sq m)	32374.9 Sq.m 9(8 Acres)
8	Built Up area (Sq m)	Existing: 2266.24

			Proposed: No change
9	Component of developments		Resonance Laboratories proposes the change in product mix of active Pharmaceutical ingredients with the production capacity of 10.29 TPA with 9 No's of APIs to 19 No's of APIs having same capacity
10	Project cost (Rs. In Crores)		Existing cost- 25 Crores Proposed cost-10 lakhs
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	2226.5 (Existing – 2226.5 & Proposed – Nil)
	b.	Kharab Land	Nil
	c.	Internal Roads	3237.49 (Existing -3237.49& Proposed – Nil)
	d.	Paved area	All existing internal roads are paved roads
	e.	Parking	Parking provided as per norms
	f.	Green belt	24281.1 (Existing – 24281.1& Proposed = Nil)
	g.	Others Specify	Open space (Existing – 2589.988 & Proposed = Nil)
	h.	Total	32374.9Sqm
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Resonance Laboratories proposes the change in product mix of active Pharmaceutical ingredients with the production capacity **of 10.29 TPA.** **Number of Products : 9 No's of APIs to 19 No's**

Sl. No.	Products	Existing Quantity (TPA)	Proposed Qty (TPA)	Variation in quantity	Change in productmix scenario
	Imipramine Hydrochloride	1.00	1.00	0	No change
	Mepyramine Maleate / Base	2.24	0.70	-1.54	Decrease
	Oxyphenonium Bromide	0.50	0.50	0	No change
	Oxybutynin Chloride	2.00	2.00	0	No change
	Clidinium Bromide	2.00	2.00	0	No change
	Isopropomide Iodide	0.50	0.50	0	No change
	Mebrophenhydramine Hydrochloride	1.00	1.00	0	No change
	Carbinoxamine Maleate	1.00	0.43	-0.57	Decrease
	Buprenorphine Hydrochloride	0.05	0.05	0	No change
	Atropine Sulfate	-	0.5	0.5	New Product
	Baclofen	-	0.3	0.3	New Product
	Glycopyrrolate	-	0.05	0.05	New Product
	HomatropineHydrobromide	-	0.15	0.15	New Product
	HomatropineMethylbromide	-	0.5	0.5	New Product
	Methylphenidate HCl	-	0.05	0.05	New Product
	Naloxone Hydrochloride	-	0.02	0.02	New Product
	Naltrexone Hydrochloride	-	0.02	0.02	New Product
	Pramoxine Hydrochloride	-	0.5	0.5	New Product
	Ipratropium Bromide	-	0.02	0.02	New Product
	Total	**10.29**	**10.29**		

13	Raw material with quantity and their source (enclose as Annexure if necessary)

Waste generation

Waste	Quantity (TPA)			Collection Method	Disposal method
	Existing	Additional	Total Proposed		
Hazardous waste	6.75	34.75	41.5	Leak proof bags and barrels	TSDF
MSW	Organic 5.76	No change	5.76	Leak proof barrels	In-house organic manure
	Inorganic 1.44	No change	1.44	Leak proof bags and barrels	Authorised recyclers

14	Mode of transportation of Raw material and storage facility	The raw materials and finished products will be transported by road. All chemical used in the process are stored in a designated area with proper labels in warehouse
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant	Not applicable
16	Fly ash production, storage and disposal details whereas coal is used as fuel	Not applicable
17	Complete process flow diagram and technology employed	Detailed process description and process flow are enclosed
18	Details of Plant and Machinery with capacity/ Technology used	Trade effluent quantity of 10.4 KLD (high TDS-5.6 KLD & Low TDS-4.8 KLD) is generated. Low TDS is handed over to M/s Green Enviro Systems (CETP) and agreement is enclosed as **Annexure-6.** High TDS is handed over to M/s Pai & Pai chemicals (I) Pvt Ltd (CETP) and agreement is enclosed as **Annexure-7.** Domestic Effluent (4.5 KLD) will be treated in STP with RO reject of 9 KLD and Existing domestic effluent quality is enclosed as **Annexure-8.**
19	Details of VOC emission and control measures wherever applicable	Details are provided in Chapter-3, section 3.7.3 & Table 3.5- 3.6 of PFR.
20	WATER	
	I. Construction Phase	
	a. Source of water	Bore wells

	b.	Quantity of water for Construction in KLD	Nil
	c.	Quantity of water for Domestic Purpose in KLD	Nil
	d.	Waste water generation in KLD	Nil

	e.	Treatment facility proposed and scheme of disposal of treated water	Nil	
	II	Operational Phase		
	a.	Source of water	Bore wells	
	b.	Total Requirement of Water in KLD	Fresh	66.5
			Recycled	13.5
			Total	**80**
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	18
			Recycled	0
			Total	**35**
	d.	Requirement of water for domestic purpose in KLD	Fresh	5
			Recycled	0
			Total	**5**
	e.	Waste water generation in KLD	Industrial effluent	19.4
			Domestic sewage	4.5
			Total	**23.9**
	f.	ETP/ STP capacity	Trade effluent quantity of 10.4 KLD (high TDS-5.6 KLD & Low TDS-4.8 KLD) is generated. Low TDS is handed over to M/s Green enviro Systems (CETP) and agreement is enclosed as **Annexure-6.** High TDS is handed over to M/s Pai & Pai chemicals (I) Pvt Ltd (CETP) and agreement is enclosed as **Annexure-7.** Domestic Effluent (4.5 KLD) will be treated in STP with RO reject of 9 KLD and Existing domestic effluent quality is enclosed as **Annexure-8.**	
	g.	Technology employed for Treatment	Inds. Effluent to CETP and Sewage to STP.	
	h.	Scheme of disposal of excess treated water if any	Treated water will be recycled. Solid waste will be sent to TSDF	
21	Infrastructure for Rain water harvesting		Provided in EIA report	
22	Storm water management plan		Will be provided in EIA report	
23	Air Pollution			
	a.	Sources of Air pollution	DG sets , Steam Boilers and Process emission	
	b.	Composition of Emissions	Diesels and Furnace oil	
	c.	Air pollution control measures proposed and	Stacks as per CPCB guideline	

		technology employed	
24	Noise Pollution		
	a.	Sources of Noise pollution	DG sets , Steam Boilers, Centrifuges, Air compressors, Cooling Towers and Pumps
	b.	Expected levels of Noise pollution in dB	70 to 75dB(A)
	c.	Noise pollution control measures proposed	sound acoustic and Noise insulators
25	WASTE MANAGEMENT		
	I.	Operational Phase	
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable (kg/d) — Existing – 5.76 Proposed- Nil
			Non- Biodegradable (kg/d) — Existing – 1.44 Proposed- Nil
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	

HWM details are provided as below:

Waste Category	Hazardous waste Generated	Quantity			Method of handling
		Existing consent quantity	Additional for Proposed	Final Proposed quantity	
5.1	Used Oil	0.5 KL/ A	2.5 KL/A	3.0 KL/A (3.0 MT/A)	Shall be collected in Leak proof containers and disposed only to KSPCB registered authorized reprocessors provided the oil meets the standards as per schedule-5 part-A of the rules
5.2	Waste /residues containing Oil (Oil soaked cotton and Oil filtersJ	0.05 MT/A	0.45 MT/A	0.5 MT/A	Store in a secured manner and handed over to KSPCB authorized incinerator (M/s. Century Refineries Pvt. Ltd.)/co-incineration in cement kiln, having valid authorization and consents.

	28.1	Process residue and waste (distillation residue)	3.5MT/A	3.5 MT/A	7.0 MT/A	To be disposed to authorized incinerator (M/s. Century Refineries Pvt. Ltd.) having valid authorization and consents.
	28.2	Spent carbon/Spent catalyst Filter material	0.6 MT/A 0.6MT/A	5.4 MT/A 11.4 MT/A	6.0 MT/A 12.0 MT/A	To be disposed to authorized incinerator having valid authorization and consents (M/s. Century Refineries Pvt. Ltd.).
	28.3	Off specification	0.3 MT/A	0.7 MT/A	1.0 MT/A	To be disposed to authorized

	c.	Quantity of E waste generation with source and mode of Disposal as per norms	NA
26		Risk Assessment and disaster management	NA
27		POWER	

a. Total Power Requirement in the Operational Phase with source

S.N	Description	Existing Capacity	Proposed Capacity	Total Capacity	Source
1	Power requirement	200 KVA	-	200 KVA	BESCOM

b. Numbers of DG set and capacity in KVA for Standby Power Supply

S.N	Description	Existing Capacity	Existing Qty	Proposed Capacity	Proposed Qty	Total Capacity	Total Qty
1	D.G set	100 KVA & 160 KVA	2	-	-	100 KVA & 160 KVA	2

c. Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,

Fuel (HSD) Requirement (L/hr)

Details	Existing	Additional	Total Proposed	Capacity
Steam boiler	12	0	12	200 Kgs/hr
Steam boiler	28	0	28	600 Kgs/hr
Thermic fluid heater	10	0	10	1 lack kcal / hr
Power generator	16	0	16	100 KVA
Power generator	25	0	25	160 KVA

	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Will be provided in EIA.
28	PARKING		
	a.	Parking Requirement as per norms	Parking provided as per norms
	b.	Internal Road width (RoW)	7.0m
29		Any other information specific to the project (Specify)	No

The Proponent and Environment Consultant attended the meeting of SEAC to provide clarification/additional information.

The committee appraised the proposal as per the Notification dated: 8-3-2018 issued by MoEF & CC considering the information provided in the statutory application-Form I, pre-feasibility report, proposed TORs and clarification/additional information provided during the meeting. The committee decided to recommend the proposal to SEIAA for issue of Standard TORs and following additional TORs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines and to conduct public hearing.

1) Details of adjacent industries and impact on the same from this industry.
2) Scheme of design and capacity of the MEE(Multiple Effect Evaporator) to be provided.
3) Process flow chart and No. of reactors to be explained.
4) Solvent storage and solvent recovery system to be explained.
5) Green chemistry adopted in the process to be highlighted.
6) Scheme of design and capacity of establishment of Effluent Treatment plant to be provided.
7) The contamination of soil and water due to use of septic tank may be assessed.
8) Methodology of decontamination and disposal of discarded containers along with the details on its record keeping, management of effluent to be generated from decontamination of the discarded containers etc.,
9) Location of the monitoring station should be decided so as to take into consideration the predominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind & down wind direction at a location where maximum ground level concentration is likely to occur.
10) Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of

Scientific and Industrial Research CSIR) institution working in the field of environment.

11) Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
12) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.

Accordingly TORs were issued on 15-06-2018. The proponent has submitted the EIA report on 28-04-2020. The same was placed before 242nd SEAC online meeting for EIA appraisal.

The proponent and consultant attended 242nd SEAC meeting held on 07-05-2020 for EIA appraisal.

As seen from the records the project was started in 90s and continues to operate based on the CFE and CFO issued by KSPCB and the plant is operating till today. This has been categorized under violation category for the fact that the proponent has not obtained EC as per the EIA notification 2006.

As per the EIA report the proponent is proposed to take effluents to CETP and for this he has agreed to convert into ZLD. The proponent has also agreed that he will go for alternatives to toluene solvent.

As far as damages due to violation the proponent has stated that all the parameters are within the permissible norms and hence he reiterated no damages have been caused due to the operation of the plant in the absence of EC.

However in this regard he came forward to earmark Rs15lakhs towards the remediation measures and he has also agreed to submit the detailed damages caused due to this plant as per Kyoto protocol.

As far as CER is concerned the proponent has stated that he will contribute Rs 10Lakhs to PM care account.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance subject to submission of the following information to SEIAA.

1) Revised EMP incorporating proposed ETP along with flow chart in order to achieve ZLD may be worked out and submitted.
2) Revised land use and land cover analysis of study area based on high resolution satellite imagery may be prepared and submitted.
3) Detailed damages and remediation measures caused due to this plant may be worked out and submitted as per Kyoto protocol.

The committee also imposed the following condition.

1) Toluene solvent may be replaced by alternatives.
2) Install separate ETP instead of sending effluents to CETP in order to achieve ZLD.

3) For boiler fuel biomass briquettes may be used.

Action: Secretary, SEAC to forward the proposal to SEIAA with the above conditions for further necessary action.

242.2 Proposed Bulk Drug and Intermediates Manufacturing Unit Project at Plot Nos.136A & 137 of Kolhar Industrial Area, Kolhar Village, Bidar Taluk & District **by M/s. SAI LIFE SCIENCES LIMITED (SEIAA43IND2018)**

<table>
<tr><th>Sl. No</th><th colspan="2">PARTICULARS</th><th>INFORMATION</th></tr>
<tr><td>1</td><td colspan="2">Name & Address of the Project Proponent</td><td>Mr. A. S. Raju
L4-01 & 02, SLN Terminus, Survey No. 133, Gachibowli Miyapur Road, Gachibowli, Hyderabad 500032, Telangana State.</td></tr>
<tr><td>2</td><td colspan="2">Name & Location of the Project</td><td>M/s. Sai Life Sciences Limited., Establishment of API's, Intermediates products and R&D unit for custom synthesis.
Plot No 136-A & B and 137, Kolhar Industrial Area, Bidar.</td></tr>
<tr><td>3</td><td colspan="2">Co-ordinates of the Project Site</td><td>Project site Co-ordinates
<table>
<tr><th>Co-ordinates</th><th>Directions</th></tr>
<tr><td>Latitude 17°54'27.87" N
Longitude 77°27'29.40" E</td><td>North West</td></tr>
<tr><td>Latitude 17°54'30.58" N
Longitude 77°27'31.65" E</td><td>North</td></tr>
<tr><td>Latitude 17°54'28.15" N
Longitude 77°27'34.65" E</td><td>North East</td></tr>
<tr><td>Latitude 17°54'25.41" N
Longitude 77°27'32.37" E</td><td>South</td></tr>
</table></td></tr>
<tr><td>4</td><td colspan="3">Environmental Sensitivity</td></tr>
<tr><td rowspan="4"></td><td>a.</td><td>Distance from Nearest Lake/ River/ Nala</td><td>-</td></tr>
<tr><td>b.</td><td>Distance from Protected area notified under wildlife protection act</td><td>-</td></tr>
<tr><td>c.</td><td>Distance from the interstate boundary</td><td>Projecct is located at 11.8 KM from interstate boundary; Karnataka State – Telangana State.</td></tr>
<tr><td>d.</td><td>whether located in critically / severally polluted area as per the CPCB norms</td><td>-</td></tr>
<tr><td>5</td><td colspan="2">Type of Development as per schedule of EIA Notification, 2006 with relevant serial number</td><td>Sl. No. 5(f) of EIA notification 2006, Synthetic organic chemicals industry - bulk drugs and intermediates.</td></tr>
<tr><td>6</td><td colspan="2">New/ Expansion/ Modification/ Product mix change</td><td>New</td></tr>
<tr><td>7</td><td colspan="2">Plot Area (Sqm)</td><td>8064 SQM or 2 Acres</td></tr>
</table>

8	Built Up area (Sqm)		4618 sqm
9	Component of developments		
10	Project cost (Rs. In crores)		Existing - 48.93 Crores Proposed- 18.8 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	4618 SQM
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan
	d.	Paved area	4451 SQM
	e.	Parking	Shown in layout plan
	f.	Green belt	3446 SQM
	g.	Others Specify	-
	h.	Total	8064 SQM
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Enclosed as Annexure
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Raw materials with quantity and their source is detailed in PFR
14	Mode of transportation of Raw material and storage facility		Most of the raw materials will be received by road ways only. Dedicated storage facility will be provided for raw materials.
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-
16	Fly ash production, storage and disposal details whereas coal is used as fuel		-
17	Complete process flow diagram and technology employed		Detailed in PFR, chapter 3, section 3.5
18	Details of Plant and Machinery with capacity/ Technology used		Detailed in PFR, chapter 5, section 5.1
19	Details of VOC emission and control measures wherever applicable		Detailed in PFR, chapter 3, section 3.11
20	WATER		
	I.	Construction Phase	
	a.	Source of water	KIADB supply/ Borewell water
	b.	Quantity of water for Construction in	10 KLD

		KLD		
	c.	Quantity of water for Domestic Purpose in KLD	3 KLD	
	d.	Waste water generation in KLD	2 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	STP	
	II	Operational Phase		
	a.	Source of water	KIADB supply/ Borewell water	
	b.	Total Requirement of Water in KLD	Fresh	96 KLD
			Recycled	55 KLD
			Total	151 KLD
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	96 KLD
			Recycled	55 KLD
			Total	151 KLD
	d.	Requirement of water for domestic purpose in KLD	Fresh	8 KLD
			Recycled	8 KLD
			Total	16KLD
	e.	Waste water generation in KLD	Industrial effluent	47 KLD
			Domestic sewage	8 KLD
			Total	55 KLD
	f.	ETP/ STP capacity	STP capacity – 10 KLD ETP capacity :30 KLD MEE	
	g.	Technology employed for Treatment	Detailed in PFR (Zero Liquid Discharge)	
	h.	Scheme of disposal of excess treated water if any	-	

21	Infrastructure for Rain water harvesting		-
22	Storm water management plan		-
23	Air Pollution		-
	a.	Sources of Air pollution	DG set of 2 X 1010 KVA are proposed to install to serve as backup power supply to run the plant in case of power failure.
	b.	Composition of Emissions	SO_2, NOx
	c.	Air pollution control measures proposed and technology employed	Process Emissions: 03 Numbers of scrubbers are proposed to treat process emissions. DG sets: Acoustic enclosure and stack of 30 m height will be provided. Boiler: Stack of 29 m will be provided.
24	Noise Pollution		
	a.	Sources of Noise pollution	Diesel generators and pumps are provided with noise and vibration control and acoustic measures as per guidelines.

	b.	Expected levels of Noise pollution in dB	Within the limits KSPCB prescribed for industrial area.
	c.	Noise pollution control measures proposed	D.G. sets are used only during the emergency of power failure to run essential services. Acoustic enclosures are provided to DG sets.
25	WASTE MANAGEMENT		
	I.	Operational Phase	
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable Non- Biodegradable Solid Waste: Office waste like paper etc. is expected. Plastic drums and bags will be sold to KSPCB authorized recycler.
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	

Sl. No	Hazardous waste	Category	Quantity
1.	Used Oil	5.1	500 Liters
2.	Inorganic solid waste + Hyflow	28.1	40.2 TPM
3.	Organic residue	28.1	24.53 TPM
4.	Spent carbon	28.3	5.46 TPM
5.	Spent catalyst	28.2	1.355 TPM
6.	Process waste	28.1	11.04 TPM
7.	Detoxified container	33.1	200 Nos
8.	Spent Solvent		350 TPM
9.	Stripper distillate	20.3	30 TPM
10.	ATFD salts	35.3	36 TPM
11.	ETP/ chemical sludge	35.3	50 TPM
12.	Silica gel	-	4.69 TPM
13.	Used PPE's	-	2 TPM
14.	Insulation waste	-	2 TPM

Mode of disposal of hazardous waste will be

			detailed in PFR.
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	-
26	Risk Assessment and disaster management		HAZOP analysis is prepared for the proposed products
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	Total power requirement to the proposed project is 750 KVA and Sourced from GESCOM.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Two DG sets of 1010 KVA will be provided as a power backup.
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,	Fuel Requirement: Low Sulphur content, Diesel of HSD- 215 L/Hr is the requirement for the DG Sets.
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	-

28	PARKING		
	a.	Parking Requirement as per norms	Provided as per standard
	b.	Internal Road width (RoW)	Detailed in Plant layout plan.
29	Any other information specific to the project (Specify)		

The proposal was placed before the committee for appraisal as per the above furnished information by the proponent.

The Proponent and Environment Consultant attended the 213rd meeting held on 3rd December 2018 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report, proposed TORs and clarification/additional information provided during the meeting. The committee decided to recommend the proposal to SEIAA for issue of Standard TORs and following additional TORs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

1 List of products deleted, quantity reduced/increased and impact due to these alterations.
2 Considering the worst case scenario, which product will give maximum Wastage/pollution is to be addressed in detail in EIA report.

3 Whether the treatment facility provided should have capacity to handle maximum waste generated by a particular product.
4 Whether any banned/hazardous solvent are used in the process and replacement if any is to be explained.
5 The consumption of water is reduced due to change in products, needs to be explained in detail.
6 Explore the possibility of using the recycled product instead of giving to a person for handling recycled solvents.
7 Solvent storage capacity due to increase in number of API's to be given.
8 Detailed design of green belt.
9 An MOU with ACC for use of hazardous waste.
10 Material balance & mass balance (ratio between product and waste generated)
11 Storm water outlet quality monitored continuously for all the rainy days for June & July months.
12 ETP flow sheet with quality and quantity for unit operation.
13 Additional raw water requirement.

The proponent was requested vide letter dated. 17.04.2020 to appraise his project under B2 category as per the recent MoEF & CC, Govt. of India Notification.

The proponent was invited for the 242nd meeting held on 07.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC meeting held on 07-05-2020.

This project is located in severely polluted industrial area of Kolhar village of Bidar District. This project was categorized under B1 category and appraised for issue of TORs under B1 category and TORs were issued. In the meantime MoEF & CC, Govt. of India has issued a notification on 27-03-2020 categorizing all the APIs under B2 category. Now the proponent has requested to take up appraisal of this project under B2 category.

As far as CER is concerned the proponent has stated that he will contribute Rs 20Lakhs to PM care account.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance subject to following conditions.

1) Boiler fuel of furnace oil should be replaced with biomass briquettes which is more environmental friendly.
2) Land use and land cover analysis of study area based on high resolution satellite imagery may be prepared and submitted.

Action: Secretary, SEAC to forward the proposal to SEIAA with the above conditions for further necessary action.

242.3 Proposed Expansion of the Bulk Drugs & intermediates manufacturing industry at Plot No.135 E, Kolhar Industrial area, Bidar Taluk & District **by M/s. Corvine Chemicals & Pharmaceuticals Ltd (SEIAA1IND2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Revanth Reddy Managing Director, Plot No 735, Venkateshwara Hills Road No3, Banjara Hills, Hyderabad Telangana State - 500 034.
2	Name & Location of the Project	M/s. Corvine Chemicals & Pharmaceuticals LtdPlot No. 135 E, Kolhar Industrial area, Bidar Taluk & District, Karnataka.
3	Co-ordinates of the Project Site	Co-ordinates of project site Latitude 17°53'31.78" N, Longitude 77°27'34.92" E

4	Environmental Sensitivity		
	a.	Distance from Nearest Lake/ River/ Nala	-
	b.	Distance from Protected area notified under wildlife protection act	-
	c.	Distance from the interstate boundary	The state boundary between Karnataka State and Telangana State is at 12.0 KM.
	d.	whether located in critically / severally polluted area as per the CPCB norms	-
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Serial no. 5(f) of the schedule i.e., Synthetic organic chemicals industry (dyes & dye intermediates; Bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) - category "B" project.
6	New/ Expansion/ Modification/ Product mix change		Expansion
7	Plot Area (Sqm)		28,328.110SQM
8	Built Up area (Sqm)		12,184.161 SQM
9	Component of developments		The proposed project is expansion of existing API's & Intermediates manufacturing unit.

10	Project cost (Rs. In crores)		Existing plant cost: Rs. 21 Crores Proposed estimated cost: Rs. 1.2 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	12,184.161 SQM
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan drawing
	d.	Paved area	4,003.330 SQM (including internal road)
	e.	Parking	Provided inside factory premises
	f.	Green belt	12,140.619 SQM
	g.	Others Specify	-
	h.	Total	28,328.110 SQM
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Existing and Proposed products is enclosed as Annexure.
13	Raw material with quantity and their source (enclose as Annexure if necessary)		The raw materials required and their quantities are detailed in PFR report chapter 3, section 3.6
14	Mode of transportation of Raw material and storage facility		Detailed in PFR report in chapter 2, section 2.5 and 2.6
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-
16	Fly ash production, storage and disposal details whereas coal is used as fuel		Dedicated storage facility is provided at the project site for Fly Ash storage.
17	Complete process flow diagram and technology employed		Process description of individual products and process flow diagram, raw material consumption detailed in PFR.
18	Details of Plant and Machinery with capacity/ Technology used		Detailed in PFR
19	Details of VOC emission and control measures wherever applicable		Detailed in PFR, chapter 3, section 3.12
20	WATER		
	I.	Construction Phase	
	a.	Source of water	Water requirement is met from open well within the factory premises
	b.	Quantity of water for Construction in KLD	-
	c.	Quantity of water for Domestic Purpose in KLD	-
	d.	Waste water generation in KLD	-
	e.	Treatment facility proposed and scheme of disposal of treated water	-

	II	Operational Phase		
	a.	Source of water	Water requirement is met from KIADB supply/ Bore well water	
	b.	Total Requirement of Water in KLD	Fresh	89 KLD
			Recycled	36
			Total	125KLD
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	89 KLD
			Recycled	36
			Total	125 KLD
	d.	Requirement of water for domestic purpose in KLD	Fresh	8 KLD
			Recycled	-
			Total	8 KLD

	e.	Waste water generation in KLD	Industrial effluent	45.5 KLD
			Domestic sewage	8 KLD
			Total	53.5 KLD
	f.	ETP/ STP capacity	Industrial wastewater is treated in solvent stripper, MEE of capacity 30 KLD and followed by ATFD is in place. The plant is running with Zero Liquid Discharge concept. After expansion the same route of treatment will be continued.	
	g.	Technology employed for Treatment	Zero Liquid Discharge	
	h.	Scheme of disposal of excess treated water if any	Cooling tower makeup/ excess will be used for greenbelt development.	
21	Infrastructure for Rain water harvesting		No rain water harvesting is proposed.	
22	Storm water management plan		-	
23	Air Pollution		-	
	a.	Sources of Air pollution	Detailed in PFR chapter 3, section 3.12	
	b.	Composition of Emissions	SO_2, NOx, Particulate Matters	
	c.	Air pollution control measures proposed and technology employed	Detailed in PFR chapter 3, section 3.12	
24	Noise Pollution			
	a.	Sources of Noise pollution	Detailed in PFR, chapter 3, section 3.13	
	b.	Expected levels of Noise pollution in dB	Within the limits KSPCB prescribed for industrial area.	
	c.	Noise pollution control measures proposed	Detailed in PFR, chapter 3, section 3.13	

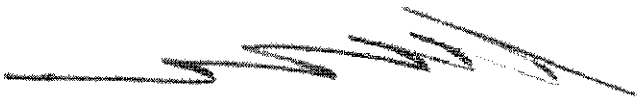
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	Solid Waste: Office waste like paper etc. is expected. Plastic drums and bags will be sold to KSPCB authorized recycler.
			Non- Biodegradable	
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Detailed in PFR, chapter 3, section 3.11	

	c.	Quantity of E waste generation with source and mode of Disposal as per norms	-
26	Risk Assessment and disaster management		Industry obtained approval from Department of Factories and Boilers. Copy submitted.
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	Source: GESCOM Power requirement: 650 KW.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	250 KVA x 3 Nos- used during power failure and 5 m AGL stack is provided. Proposed install one more DG set of 250 KVA
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,	2 TPH x 3 Nos (existing) & 3 TPH x 1 No (Proposed replace existing one 2 TPH) - cyclone separator Thermic fluid heaters 1 x 2.0 Lakh Kilo cal/hour- 5 m AGL stack is provided.
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	-
28	PARKING		
	a.	Parking Requirement as per norms	Provided as per standard
	b.	Internal Road width (RoW)	Detailed in Plant layout plan.
29		Any other information specific to the project (Specify)	

Existing & Proposed products to be manufactured

Sl. No.	Product	Existing TPM	Proposed TPM	Intermediate stages	Quantity TPM	Remarks
1	Sodium Azide	64	180	-		Existing
2	Trityl Chloride	80	80	-		Existing
3	Ciprofloxacin HCL	30	30	-		Existing
4	BHT	15	15	-		Existing
5	5 Methyl Tetrazole	15	15	-		Existing
6	5 Amino Tetrazole	15	15	-		Existing
7	Dabigatran Etexilate Mesylate	-	3	Stage-1 (Dabigatran Ethyl Acetic Salt)	6.6	Proposed
				Stage-2 (Dabigatran Etexilate)	3.0	
8	Donepezil HCL	-	3	Stage- 1 (Dehydro Denepezil)	3.75	Proposed
				Stage- 2 (Donepezil)	3.0	
9	Pirfenidone	-	3	Stage- 1 (2-Hydroxy 5-Methyl pyridine)	2.7	Proposed
10	Solifenacin Succcinate	-	3	Stage-1 (S) -Ethyl 1-Phenyl-3,4-Dihydro isoquinoline -2(1H)-carboxylate	3.3	Proposed
11	Tamsulosin Hydrochloride	-	3	Stage- 1 (Ethoxy henox4) ethyl amino propyle 2]-methoxy benzene sulfoamide)	3.3	Proposed
12	1H Tetrazole (1- HT)	-	2	-	-	Proposed
13	5-Benzyl Thio 1h	-	2	-	-	Proposed

	Tetrazole (5- BTT)					
14	4,5-Di Cyano Imidazole (DCI)	-	2	-	-	Proposed
15	Ethyl Thio Tetrazole (ETT)	-	2	-	-	Proposed
16	5-Phenyl 1H-Tetrazole (5Ph T)	-	2	-	-	Proposed
	Total	**219.00**	**360.00**		**25.65**	



By-products

By-products				
Sl. No.	**Main Product**	**TPM**	**Byproducts**	**TPM**
1	Sodium Azide	180	Sodium Sulphate	211
2	Trityl Chloride	80	Hydrochloric Acid	116
			Aluminium Chloride Solution	320
3	Ciprofloxacin HCl	30	Ammonium Acetate	15
			Piperzine	12
4	BHT	15	Manganese Carbonate	16
			Sodium Chloride	22
5	5 Methyl Tetrazole	15	Sodium Chloride	49
6	5 Amino 1 H Tetrazole	15	Sodium Chloride	15

The proposal was placed before the committee for appraisal as per the above furnished information by the proponent.

The Proponent and Environment Consultant attended the meeting to provide clarification/additional information. The committee screened the proposal considering the information provided in the statutory application-Form I, Form-1A, prefeasibility report and clarification/additional information provided during the meeting.

The Committee after discussion had decided to appraise the proposal as B1 and decided to recommend the proposal to SEIAA for issue of standard TORs to conduct the EIA studies. The committee also prescribed the following additional TORs.

1) Explore the possibility of replacing Raney nickel catalyst with Pt/C catalyst.
2) Details of adjacent industries and impact on the same from this industry.
3) Scheme of design and capacity of the MEE to be provided.
4) Process flow chart and No. of reactors to be explained.
5) Solvent storage and percentage of solvent recovery system to be explained.
6) Green chemistry adopted in the process to be highlighted.
7) Methodology of decontamination and disposal of discarded containers along with the details on its record keeping, management of effluent to be generated from decontamination of the discarded containers etc.,
8) Existing trees species wise number details and details of trees proposed to be planted around the project boundary to create green barrier may be detailed and submitted.
9) Certified compliance to earlier EC and CFO conditions should be furnished.
10) Justification for the No. of products and No. of reactors provided
11) Material balance and mass balance for all the products
12) Detailed study of the soil analysis inside the premises of the industry is to be done and provided.
13) Raw material to product and product to waste generation ratio for each product to be given

14) Scheme for storage and disposal of hazardous waste as per the hazardous waste handling and disposal rules
15) Control system provided for the methyl nitrite and chlorine may be detailed and submitted
16) Solvent storage and solvent recovery system to be explained. Explain the % of loss, % of recovery and disposal of recovered solvents with scheme is to be furnished
17) Green chemistry adopted in the process to be highlighted and explained
18) List of banned chemicals to be provided and alternative chemicals to replace the banned chemicals .
19) Scheme to store Hydrogen chloride may be detailed and submitted.

The proponent requested vide letter dated. 20.04.2020 to appraise his project under B2 category as per the recent MoEF & CC, Govt. of India Notification.

The proponent was invited for the 242nd meeting held on 07.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC meeting held on 07-05-2020 and provided the details. After detailed discussion the following was decided.

This is a proposal involving expansion of the existing unit. EC for the existing unit was issued in 2013 and as far as certified EC compliance is concerned the proponent has stated that he has obtained the certification in 2018.

When the application for this project was made under B1 category, the project was appraised under B1 category and necessary TORs were also issued. In view of the changed policy decision of MoEF&CC, Govt. of India bringing all APIs under B2 category, the proponent has requested to appraise his project under B2 category.

During appraisal the proponent has agreed to replace toxic solvents such as Toluene, Hexane and Methyl Ethyl Ketone. As far as using Benzene as a raw material, the proponent has stated that he will take all precautions and never use it as a solvent.

As far as CER is concerned the proponent has stated that he will contribute Rs 10Lakhs to PM care account.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance subject to following conditions.

1) Boiler fuel of furnace oil should be replaced with biomass briquettes wbich is more environmental friendly.
2) Land use and land cover analysis of study area based on high resolution satellite imagery may be prepared and submitted.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

2:30PM to 6:00PM

242.4 EIA PROJECT - Proposed Expansion of the bulk drugs & intermediates manufacturing at Plot No.135F, KIADB, Kolhar Industrial Area, BidarTaluk & District **by M/s. Shreegen Pharma Ltd. (SEIAA16IND2019)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Mr.Rama Mangeshwar Reddy Bobbiti Shreegen pharma ltd, #405, Dasaiah plaza Moosapet, Kukatpally, Hyderabad Telangana State - 500 034
2	Name & Location of the Project		Plot No. 135 F, Kolhar Industrial area, Bidar Taluk & district, Karnataka
3	Co-ordinates of the Project Site		Project has the co-ordinates, Latitude 17°54'35.89"N and Longitude 77°27'35.58"E.
4	Environmental Sensitivity		
	a.	Distance from Nearest Lake/ River/ Nala	-
	b.	Distance from Protected area notified under wildlife protection act	-
	c.	Distance from the interstate boundary	-
	d.	whether located in critically / severally polluted area as per the CPCB norms	-
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Serial no. 5(f) of the schedule i.e., Synthetic organic chemicals industry and category "B" project.
6	New/ Expansion/ Modification/ Product mix change		Expansion
7	Plot Area (Sqm)		7,480.31 SQM
8	Built Up area (Sqm)		2927.62 SQM
9	Component of developments		Manufacturing of synthetic aromatic chemicals activity
10	Project cost (Rs. In crores)		Existing : Rs. 20 Crores Proposed : Rs.1 Crores Total Rs.21 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	2927.62SQM
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan drawing
	d.	Paved area	SQM (including internal road)

	e.	Parking	Provided inside factory premises	
	f.	Green belt	2500SQM	
	g.	Others Specify	-	
	h.	Total	7480.31SQM	
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Proposed products& by-products details are in prefeasibility report	
13	Raw material with quantity and their source (encloses as Annexure if necessary)		The raw materials required and their quantities are detailed in PFR report chapter 3, section 3.5	
14	Mode of transportation of Raw material and storage facility		Detailed in PFR report in chapter 3, section 3.6	
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-	
16	Fly ash production, storage and disposal details whereas coal is used as fuel		-	
17	Complete process flow diagram and technology employed		Process description of individual products and process flow diagram, raw material consumption detailed inPFR.	
18	Details of Plant and Machinery with capacity/ Technology used		Detailed in PFR	
19	Details of VOC emission and control measures wherever applicable		Detailed in PFR	
20	WATER			
	I.	Construction Phase		
	a.	Source of water	Water requirement is met from KIADB supply	
	b.	Quantity of water for Construction in KLD	-	
	c.	Quantity of water for Domestic Purpose in KLD	-	
	d.	Waste water generation in KLD	-	
	e.	Treatment facility proposed and scheme of disposal of treated water	Septic tank & soak pit	
	II	Operational Phase		
	a.	Source of water	Water requirement is met from KIADB supply/ Borewell water	
	b.	Total Requirement of Water in KLD	Fresh	95.4 KLD
			Recycled	-
			Total	95.4KLD
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	21.6KLD
			Recycled	-
			Total	21.6KLD

	d.	Requirement of water for domestic purpose in KLD	Fresh	6 KLD
			Recycled	-
			Total	6KLD
	e.	Waste water generation in KLD	Industrial effluent	24.56KLD+12.8
			Domestic sewage	4.8 KLD
			Total	42.16KLD
	f.	ETP/ STP capacity	Industrial effluents are segregated into High TDS & Low TDS effluents. Wastewater generating from process, washings, R&D effluents and scrubbers are considered as HTDS and Boiler blow down, cooling tower bleed, Domestic sewage are considered as LTDS effluents. Effluents with HTDS will be treated in primary ETP, solvent stripper, MEE followed by ATFD. Effluents with LTDS and domestic sewage is treated in septic tank and soak pit. MEE capacity 25 KLD	
	g.	Technology employed for Treatment	Zero Liquid Discharge	
	h.	Scheme of disposal of excess treated water if any	Utility makeup.	
21	Infrastructure for Rain water harvesting		-	
22	Storm water management plan		-	
23	Air Pollution		-	
	a.	Sources of Air pollution	Detailed in PFR chapter 3, section 3.10	
	b.	Composition of Emissions	SO_2, NOx, Particulate Matters	
	c.	Air pollution control measures proposed and technology employed	Detailed in PFR chapter 3, section 3.10	
24	Noise Pollution			
	a.	Sources of Noise pollution	Detailed in PFR, chapter 3, section 3.11	
	b.	Expected levels of Noise pollution in dB	Within the limits KSPCB prescribed for industrial area.	
	c.	Noise pollution control measures proposed	Detailed in PFR, chapter 3, section 3.11	
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	Solid Waste: Office waste like paper etc. is expected. Plastic drums and bags will be sold to KSPCB
			Non- Biodegradable	

<table>
<tr><td></td><td></td><td></td><td>authorized recycler.</td></tr>
<tr><td></td><td>b.</td><td>Quantity of Hazardous Waste generation with source and mode of Disposal as per norms</td><td>Detailed in PFR, chapter 3, section 3.9</td></tr>
<tr><td></td><td>c.</td><td>Quantity of E waste generation with source and mode of Disposal as per norms</td><td>-</td></tr>
<tr><td>26</td><td colspan="2">Risk Assessment and disaster management</td><td>-</td></tr>
<tr><td>27</td><td colspan="3">POWER</td></tr>
<tr><td></td><td>a.</td><td>Total Power Requirement in the Operational Phase with source</td><td>Source: BESCOM
Power requirement: 400KVA</td></tr>
<tr><td></td><td>b.</td><td>Numbers of DG set and capacity in KVA for Standby Power Supply</td><td>Existing DG set is 380 KVA. DG set of 500 KVA will be provided as a power backup.</td></tr>
<tr><td></td><td>c.</td><td>Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,</td><td><table><tr><td>Sources</td><td>Capacity</td><td>fuel</td></tr><tr><td>DG sets</td><td>380 KVA</td><td>HSD</td></tr><tr><td>Boiler</td><td>2 TPH & 0.5TPH</td><td>coal</td></tr><tr><td>Thermic fuel heater</td><td>1,00,000Kcal /h</td><td>coal</td></tr></table></td></tr>
<tr><td></td><td>d.</td><td>Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007</td><td>-</td></tr>
<tr><td>28</td><td colspan="2">PARKING</td><td></td></tr>
<tr><td></td><td>a.</td><td>Parking Requirement as per norms</td><td>Provided as per standard</td></tr>
<tr><td></td><td>b.</td><td>Internal Road width (RoW)</td><td>Detailed in Plant layout plan.</td></tr>
<tr><td>29</td><td colspan="2">Any other information specific to the project (Specify)</td><td></td></tr>
</table>

The proposal was placed before the committee for appraisal as per the above furnished information by the proponent.

The Proponent and Environment Consultant attended the 221st meeting held on 26-4-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report, proposed TORs and clarification/additional information provided during the meeting. The committee decided to recommend the proposal to SEIAA for issue of Standard TORs along with following additional TORs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

1. Present the compliance to earlier CFO conditions.
2. Establish with layout plan the adoption of GMP for manufacturing your products supported by P & ID.

3. Sketch the location of the additional infrastructure in the plan of the existing industrial site.
4. Give the details of disposal of debris generated during expansion.
5. Based on experimental data, present the material balance / mass balance for each product with quantities of distillate residue, solvent loss and fugitive emissions. Also evaluate and present the ratio of (i) waste to product and (ii) raw material to product for each of the products proposed to be manufactured.
6. Enlist the raw materials with quantity with particular mention of any pyrophoric & highly reactive materials and precautions taken for their storage. Also mention any restricted/banned chemicals, if used in your product manufacture proposal.
7. Provide the solvents storage plan with quantity as per standard norms highlighting any special precautions adopted for storage.
8. Evaluate and present the quantity and quality of solid and gaseous waste generated and their scheme of disposal.
9. Evaluate and present the existing and proposed water balance based on expansion.
10. For the worst case scenario, evaluate and present the quantity and characteristics of effluent discharged and their scheme of disposal through ETP
11. Describe the measures proposed for in-house recovery of solvents mentioning the efficiency of recovery.
12. Identify and evaluate the steps in the manufacturing of your products that may represent risks to personnel or equipment and conduct a detailed investigation and present the hazop study along with risk assessment, disaster management for worst case scenario, all control equipment and mitigation measures adopted, emergency preparedness and onsite emergency plan.
13. Present the scheme proposed for separation of high TDS effluent and its treatment & disposal through MEE used, justifying the stages and design parameters.
14. Present the scheme proposed to isolate the lithium (if used) and other salts from MEE and explore the possibility of their disposal advantageously.
15. Evaluate the hydrogenation process (if adopted) and give a detailed description of the safety measures and precautions taken.
16. Highlight the green chemistry adopted with particular mention of your efforts to replace toxic solvents and reagents such as EDC, MDC, chloroform, butyl lithium, lithium aluminium hydride, sodium borohydride, thionyl chloride, THF etc wherever done and if bromination is done using bromine, better alternatives to bromine as brominating agent.
17. Details of existing plant species number and list of species proposed to be planted in green belt.
    1. Scheme for harvesting renewable energy at the site and roof top may be detailed.
    2. Details of the locals who are employed within the radius of 50 KM within Karnataka State.
    3. Scheme for harvesting renewable energy at the site and roof top may be detailed.

The proponent submitted EIA report on 16.01.2020. The same was placed before the committee for appraisal as per the above furnished information by the proponent.

The Proponent and Environment Consultant attended the 239th meeting held on 12-02-2020 to provide clarification/additional information.

The proponent addressed a letter requesting the committee, due to unavoidable circumstances not in a position to attend the meeting. The committee after discussion decided to provide one more opportunity to proponent with intimation that the proposal will be appraised based on merit, in case he remains absent and deferred the subject.

The proponent was invited for the 242nd meeting held on 07.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC meeting held on 07-05-2020.

The committee observed that this is a proposal involving expansion of the existing unit. EC for the existing unit was issued in 2017 and as far as certified EC compliance is concerned the proponent has stated that he has obtained the certification on 2018.

During EIA appraisal the proponent has agreed to replace toxic solvents such as Toluene, Hexane and Methyl Ethyl Ketone.

As far as CER is concerned the proponent has stated that he will contribute Rs 10Lakhs to PM care account.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance subject to following conditions.

1) Boiler fuel of furnace oil should be replaced with biomass briquettes which is more environmental friendly.
2) Land use and land cover analysis of study area based on high resolution satellite imagery may be prepared and submitted.
3) Replace the Toluene, Hexane and Methyl Ethyl Ketone with suitable alternatives.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

242.5 Proposed Bulk Drugs and Intermediates Project at Plot Nos.110(P1), 111(P1), 112(P1) of Pharma SEZ Zone, KIADB Industrial Area, Kaushik Grama Panchayat Village, Hassan Taluk & District **by M/s. Sami Labs Limited (SEIAA29IND2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Dr. Muhammed Majeed Founder & Managing Director M/s. Sami Labs Limited No.19/1 & 19/2, I Main, II Phase,

		Peenya Industrial Area, Bangalore.
2	Name & Location of the Project	M/s. Sami Labs Limited Establishment of API's, Intermediates products and R&D unit for custom synthesis. Plot no: 110(p1),111(p1),112(p1) Pharma SEZ zone, KIADB Industrial Area Kaushik Grama Panchayat, Hassan District – 573201, Karnataka, India.
3	Co-ordinates of the Project Site	Project site Co-ordinates

Co-ordinates	Directions
12°58'01.54" N 76°07'26.79" E	South
12°58'03.75" N 76°07'32.76" E	South East
12°58'13.03" N 76°07'29.65" E	North East
12°58'09.54" N 76°07'21.17" E	North West

4	Environmental Sensitivity		
	a.	Distance from Nearest Lake/ River/ Nala	-
	b.	Distance from Protected area notified under wildlife protection act	-
	c.	Distance from the interstate boundary	-
	d.	whether located in critically / severally polluted area as per the CPCB norms	-
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Sl. No. 5(f) of EIA notification 2006. Synthetic organic chemicals industry - **bulk drugs and intermediates.**
6	New/ Expansion/ Modification/ Product mix change		New
7	Plot Area (Sqm)		38775 SQM or 9.58 Acres
8	Built Up area (Sqm)		14644.16 Sqm

9	Component of developments		-
10	Project cost (Rs. In crores)		Rs. 99 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	14644.16 SQM
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan
	d.	Paved area	-
	e.	Parking	Shown in layout plan
	f.	Green belt	13176.7 SQM
	g.	Others Specify	-
	h.	Total	38775 SQM
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Detailed in PFR, chapter 2
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Raw materials with quantity and their source is detailed in PFR
14	Mode of transportation of Raw material and storage facility		Most of the raw materials will be received by road ways only. Dedicated storage facility will be provided for raw materials.
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-
16	Fly ash production, storage and disposal details whereas coal is used as fuel		-

17	Complete process flow diagram and technology employed		Detailed in PFR, chapter 3, section 3.5
18	Details of Plant and Machinery with capacity/ Technology used		Detailed in PFR, chapter 5, section 5.1
19	Details of VOC emission and control measures wherever applicable		Detailed in PFR, chapter 3, section 3.11
20	WATER		
	I.	Construction Phase	
	a.	Source of water	Source- KIADB supply (Hemavathi River) Total water requirement – 186 KLD (including

			recycle of treated effluent of 80 KLD)	
	b.	Quantity of water for Construction in KLD	20 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	20 KLD	
	d.	Waste water generation in KLD	• Domestic wastewater will be treated in Biological ETP along with condensate of MEE & ATFD and LTDS effluent. Capacity of Biological ETP is 120 KLD. • Industrial effluents are segregated into HTDS Effluents with solvent and without solvent and LTDS effluents. HTDS effluents with solvent will be primarily treated in solvent stripper then combined with HTDS effluent without solvent and treated in MEE followed by ATFD. Condensate from MEE and ATFD will be taken to Biological ETP.	
	e.	Treatment facility proposed and scheme of disposal of treated water	STP	
	II	Operational Phase		
	a.	Source of water	KIADB supply/ Borewell water	
	b.	Total Requirement of Water in KLD	Fresh	106
			Recycled	80
			Total	186
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	-
			Recycled	-
			Total	-

	d.	Requirement of water for domestic purpose in KLD	Fresh	-
			Recycled	-
			Total	-
	e.	Waste water generation in KLD	Industrial effluent	105
			Domestic sewage	10
			Total	115
	f.	ETP/ STP capacity	• Domestic wastewater will be treated in Biological ETP along with condensate of MEE & ATFD and LTDS effluent. Capacity of Biological ETP is 120 KLD. • Industrial effluents are segregated into HTDS Effluents with solvent and without solvent and LTDS effluents. HTDS effluents with solvent	

<table>
<tr><td></td><td></td><td></td><td colspan="2">will be primarily treated in solvent stripper then combined with HTDS effluent without solvent and treated in MEE followed by ATFD. Condensate from MEE and ATFD will be taken to Biological ETP.</td></tr>
<tr><td></td><td>g.</td><td>Technology employed for Treatment</td><td colspan="2">Detailed in PFR (Zero Liquid Discharge)</td></tr>
<tr><td></td><td>h.</td><td>Scheme of disposal of excess treated water if any</td><td colspan="2">-</td></tr>
<tr><td>21</td><td colspan="2">Infrastructure for Rain water harvesting</td><td colspan="2">-</td></tr>
<tr><td>22</td><td colspan="2">Storm water management plan</td><td colspan="2">-</td></tr>
<tr><td>23</td><td colspan="2">Air Pollution</td><td colspan="2">-</td></tr>
<tr><td></td><td>a.</td><td>Sources of Air pollution</td><td colspan="2"><table><tr><th>Sl. No.</th><th>Sources</th><th>Capacity</th></tr><tr><td>1</td><td>Process Emissions</td><td>from Reactors</td></tr><tr><td>2</td><td>DG sets</td><td>500 KVA (3 Nos)</td></tr><tr><td>3</td><td>Boiler (Briquette)</td><td>3 TPH</td></tr><tr><td>4</td><td>TFH</td><td>2 Lakhs Kcal/h</td></tr></table></td></tr>
<tr><td></td><td>b.</td><td>Composition of Emissions</td><td colspan="2">SO_2, NOx</td></tr>
<tr><td></td><td>c.</td><td>Air pollution control measures proposed and technology employed</td><td colspan="2">a Process Emissions: 2 Nos Acidic Fume scrubbers with stack of about 10 mts & 3 Nos. of Point Exhaust/Solvent scrubbers.
b DG sets:
Acoustic enclosure with individual stack of 8 m ARL will be provided.
c Boiler: Cyclone separator with chimney of 16 m AGL will be provided.
d Thermic Fluid Heater will be provided with chimney of 30 m AGL.</td></tr>
<tr><td>24</td><td colspan="2">Noise Pollution</td><td colspan="2"></td></tr>
<tr><td></td><td>a.</td><td>Sources of Noise pollution</td><td colspan="2">Diesel generators and pumps are provided with noise and vibration control and acoustic measures as per guidelines.</td></tr>
<tr><td></td><td>b.</td><td>Expected levels of Noise pollution in dB</td><td colspan="2">Within the limits KSPCB prescribed for industrial area.</td></tr>
<tr><td></td><td>c.</td><td>Noise pollution control measures proposed</td><td colspan="2">D.G. sets are used only during the emergency of power failure to run essential services. Acoustic enclosures are provided to DG sets.</td></tr>
<tr><td>25</td><td colspan="3">WASTE MANAGEMENT</td><td></td></tr>
<tr><td></td><td>I.</td><td colspan="3">Operational Phase</td></tr>
<tr><td></td><td>a.</td><td>Quantity of Solid waste generated per</td><td>Biodegradable</td><td>Solid Waste:</td></tr>
</table>

<table>
<tr><td></td><td></td><td>day and their disposal</td><td>Non- Biodegradable</td><td>Office waste like paper etc. is expected.
Plastic drums and bags will be sold to KSPCB authorized recycler.</td></tr>
<tr><td></td><td>b.</td><td>Quantity of Hazardous Waste generation with source and mode of Disposal as per norms</td><td colspan="2"><table>
<tr><th>Hazardous waste</th><th>Category</th><th>Quantity Per Month</th></tr>
<tr><td>Used Oil</td><td>5.1</td><td>25 L</td></tr>
<tr><td>Inorganic residue</td><td>28.1</td><td>166.7 kgs</td></tr>
<tr><td>Spent carbon+ Hyflo</td><td>28.3</td><td>117.5 kgs</td></tr>
<tr><td>Spent catalyst</td><td>28.2</td><td>10.8 kgs</td></tr>
<tr><td>Process waste</td><td>28.1</td><td>100.0 kgs</td></tr>
<tr><td>Detoxified container</td><td>33.1</td><td>500 kgs</td></tr>
<tr><td>Spent Solvent</td><td>26.4</td><td>25000 kgs</td></tr>
<tr><td>Distillation residue</td><td>20.3</td><td>9000 kgs</td></tr>
<tr><td>ATFD salts</td><td>35.3</td><td>10000 kgs</td></tr>
<tr><td>ETP/ chemical sludge</td><td>35.3</td><td>9500 kgs</td></tr>
<tr><td>Boiler Ash</td><td>-</td><td>6000 kgs</td></tr>
</table>
Mode of disposal of hazardous waste will be detailed in PFR.</td></tr>
<tr><td></td><td>c.</td><td>Quantity of E waste generation with source and mode of Disposal as per norms</td><td colspan="2">-</td></tr>
<tr><td>26</td><td colspan="2">Risk Assessment and disaster management</td><td colspan="2">Risk assessment will be carried out during EIA studies</td></tr>
<tr><td>27</td><td colspan="4">POWER</td></tr>
<tr><td></td><td>a.</td><td>Total Power Requirement in the Operational Phase with source</td><td colspan="2">Total power requirement to the proposed project is 3000 KVA and Sourced from CESC.</td></tr>
<tr><td></td><td>b.</td><td>Numbers of DG set and capacity in KVA for Standby Power Supply</td><td colspan="2">Three DG sets of 500 KVA will be provided as a power backup.</td></tr>
<tr><td></td><td>c.</td><td>Details of Fuel used with purpose such</td><td colspan="2">Fuel Requirement: Low Sulphur content, Diesel of</td></tr>
</table>

		as boilers, DG, Furnace, TFH, Incinerator Set etc.,	HSD- 105 L/Hr is the requirement for the DG Sets& 100 L/Hr for Thermic Fluid Heater
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	-
28	PARKING		
	a.	Parking Requirement as per norms	Provided as per standard
	b.	Internal Road width (RoW)	Detailed in Plant layout plan.
29		Any other information specific to the project (Specify)	

The proposal was placed before the committee for appraisal as per the above furnished information by the proponent.

The proponent and Environmental Consultant attended the 232nd SEAC meeting held on 17-10-2019 to provide required clarification and additional information.

The committee appraised the proposal considering the Statutory Application Form –I, Pre-feasibility report, proposed TORs and additional information provided during the meeting.

The committee appraised the proposal as B1 and decided to recommend the proposal to SEIAA for issue of standard TORs to conduct the EIA studies in accordance with the EIA Notification, 2006 and relevant guidelines. The committee also prescribed the following additional TORs:

1) Explore the feasibility for renewable source such as thermal solar instead of coal for generation of steam and submit the detailed workings.
2) Reasons for selecting particular location for sampling purposes may be detailed and verified weather it comply with the predominant wind rose direction.
3) Toxicity studies for product involving Toluene to be studied and submitted.
4) Risk analysis study should include failure probability, credible accidents scenario to be studied and submitted.
5) Characterizations of MEE salt may be studied and submitted.

The proponent requested vide letter dated. 18.04.2020 to appraise his project under B2 category as per the recent MoEF & CC, Govt. of India Notification.

The proponent was invited for the 242nd meeting held on 07.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC meeting held on 07-05-2020.

The committee observed that this is a Green field project proposal, the proponent has made out an application for EC earlier under B1 category and consequent to this the project was appraised for issue of TORs. The proponent has stated that he has carried out the baseline studies and he has not prepared EIA report. In the meantime due to change in policy of treating all the APIs as B2 category the proponent requested to appraise this under B2 category.

As far as toxic solvents/raw materials are concerned the proponent has stated that he will go for the alternatives for the proposed Hexane, Toluene and Bromine.

As far as CER is concerned the proponent has stated that he has earmarked 2crores and he will contribute 1 Crore to PM care and 1crore to CM care fund.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance subject to following conditions.

1) Replace Hexane, Toluene and Bromine by alternatives as agreed by the proponent.
2) Proponent to revise the plant species to develop at least 10meters wide good green belt all along the project boundary with native suitable species in three tier system.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

8th May 2020

Members present in the meeting:

Sri. N. Naganna	-	Chairman
Dr. B. Chikkappaiah,IFS(R)	-	Member
Dr.N Krishnamurthy	-	Member
Sri G T Chandrashekrappa	-	Member
Dr M.I Hussain	-	Member
Sri M. Srinivasa	-	Member
Sri J.G Kaveriappa	-	Member
Dr K.B Umesh	-	Member
Dr. Vinod Kumar C.S	-	Member
Sri D. Raju	-	Member
Sri Vyshak V Anand	-	Member
Sri Md.Saleem I Shaikh	-	Member
Dr. B.E Yogendra	-	Member
Smt Saswati Misra	-	Secretary

8th May 2020
10:00 AM to 2:00AM

242.6 EIA PROJECT-Proposed Expansion of manufacturing drugs and drug intermediates, dietary supplements, formulation and fermentation based products and custom synthesis of organic compounds at Plot No.276P, 277 P, Phase-2, Harohalli Industrial Area, Kanakapura Taluk, Ramangar District **by M/s. Anthem Biosciences Pvt Ltd (SEIAA9IND2019)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Mr. Ajay Bhardwaj , Chairman & Managing DirecTOR M/s. Anthem Biosciences Private Limited Plot Nos. 276P & 277P of KIADB Harohalli Industrial Area Phase – II, Kanakapura Taluk, Ramanagar District, Karnataka
2	Name & Location of the Project		Expansion for manufacturing drugs and drug intermediates, dietary supplements, formulation and fermentation based products and custom synthesis of organic compounds. Plot Nos. 276P & 277P of KIADB Harohalli Industrial Area Phase – II, Kanakapura Taluk, Ramanagar District, Karnataka
3	Co-ordinates of the Project Site		12°40'25.36"N ; 77°26'13.25"E 12°40'21.95"N ; 77°26'13.73"E 12°40'19.76"N ; 77°26'16.85"E 12°40'20.37"N ; 77°26'20.73"E 12°40'25.40"N ; 77°26'19.60"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	• Harohalli Lake Located at a distance of 3.4 Kms from site in the Eastern direction • Gabbadi Lake located at a distance of 6 kms from site in the NE direction • Suvarnamukhi Water Resevoir located at a distance of 4.3 kms in the NE direction • Vrushabhavathi reservoir located at a distance of 9.4 kms in N direction
	b.	Distance from Protected area notified under wildlife protection act	Bannerghatta National Park – 10.3 Km (NE)
	c.	Distance from the interstate boundary	Tamil Nadu State Border: 17.5 kms, SE direction

	d.	whether located in critically / severally polluted area as per the CPCB norms	No
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		5(f)
6	New/ Expansion/ Modification/		Expansion for manufacturing drugs and drug intermediates, dietary supplements, formulation and fermentation based products and custom synthesis of organic compounds
7	Plot Area (Sqm)		49,115.45 Sq.m
8	Built Up area (Sqm)		18,371.2Sq.m
9	Component of developments		Details enclosed in site plan as annexure -8
10	Project cost (Rs. In crores)		15 Crores (Expansion)
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	
	b.	Kharab Land	No Kharab land
	c.	Internal Roads	-
	d.	Paved area	
	e.	Parking	-
	f.	Green belt	18,542.30Sq.m
	g.	Others Specify	Open space-12,202.02 Sq.m
	h.	Total	49,115.45 Sq.m
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Products with quantity enclosed as annexure-1
13	Raw material with quantity and their source (enclose as Annexure if necessary)		List of raw materials enclosed as annexure-2
14	Mode of transportation of Raw material and storage facility		Mode of transportation of raw material and end products: Trucks Raw materials are sTORed in Closed sheds and underground tanks.
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-NA-
16	Fly ash production, storage and disposal details whereas coal is used as fuel		-NA-
17	Complete process flow diagram and technology employed		Complete process flow diagram enclosed as annexure-2

18	Details of Plant and Machinery with capacity/ Technology used		Details of plant machinery layout plan are enclosed as annexure-8
19	Details of VOC emission and control measures wherever applicable		Emissions • Emissions from Boiler, Reaction Vessels & DG sets • Control Measures • For Boiler – Adequate Stack height • Reaction Vessels- Scrubber • DG Set – Acoustic Enclosure.
20	WATER		
	I.	Construction Phase	
	a.	Source of water	No additional construction. Existing building is adequate to carry out proposed activity
	b.	Quantity of water for Construction in KLD	--
	c.	Quantity of water for Domestic Purpose in KLD	--
	d.	Waste water generation in KLD	--
	e.	Treatment facility proposed and scheme of disposal of treated water	-
	II	Operational Phase	
	a.	Source of water	KIADB and outside water tanker
	b.	Total Requirement of Water in KLD	
	c.	Requirement of water for industrial purpose / production in KLD	
	d.	Requirement of water for domestic purpose in KLD	
	e.	Waste water generation in KLD	
	f.	ETP/ STP capacity	Domestic: 30 KLD STP will be upgraded to 60 KLD Effluent: 155 KLD ETP will be upgraded to 400 KLD
	g.	Technology employed for Treatment	Anaerobic followed by aeration with MBR
	h.	Scheme of disposal of excess treated water if any	Nil (proposal involves ZLD)
21	Infrastructure for Rain water harvesting		Details will be provided in the EIA report.

Sl. No.	Water Consumed for	Water consumption in KLD		Water Discharged in KLD	
		Existing	After expansion	Existing	After expansion
1	Domestic	36	68	29 (30 KLD STP)	54 (60 KLD)
2	Industrial Process, Washing and Cooling	170	350	148 (155 KLD ETP)	292 (400 KLD)
	Total	206	418	117	346

22	Storm water management plan		Storm water drain is constructed around the project site.
23	Air Pollution		
	a.	Sources of Air pollution	Existing air pollution sources and constituents is listed in Annexure – 03. After expansion emission will be from the operation of boiler, Thermic fluid heater and DG sets
	b.	Composition of Emissions	
	c.	Air pollution control measures proposed and technology employed	
24	Noise Pollution		
	a.	Sources of Noise pollution	DG sets & Vehicular movement
	b.	Expected levels of Noise pollution in dB	Expected noise levels during day time: < 75dB(A) and during night time : <70dB(A)

	c.	Noise pollution control measures proposed	Acoustic enclosures for DG sets All the sections have been properly constructed with noise absorbing materials; pumps selected are of less noise generating type. Vehicles speed limit restriction within the premises at 15-20kmph and traffic congestion is avoided by security deployed at the entry/exit gates.	
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable (Domestic)	9MT/Month
			Non- Biodegradable (Domestic)	6 MT/Month
			Biodegradable waste Handed over to BBMP	
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Details enclosed in PFR	
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	E-waste: 50Kg/annum Will be disposed to KSPCB authorized recyclers	
26	Risk Assessment and disaster management		Will be included during the preparation of EIA/EMP report.	
27	POWER			
	a.	Total Power Requirement in the Operational Phase with source	The present power requirement of the plant is 4,800 KVA. This requirement is met from BESCOM. With	

			expansion, the power requirement increases to 8,000 KVA and the same will be met from BESCOM.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	DG sets - 3 Nos. of 2000 KVA capacity is installed & additional 1 Nos. 2000 KVA DG is proposed.
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Diesel for DG set.
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Details will be included during the preparation of EIA/EMP report.

28	PARKING		
	a.	Parking Requirement as per norms	Details will be included during the preparation of EIA/EMP report.
	b.	Internal Road width (RoW)	6 meter
29		Any other information specific to the project (Specify)	--

The proposal was placed before the committee for appraisal as per the above furnished information by the proponent.

The Proponent and Environment Consultant attended the 219th meeting held on 27-3-2019 to present the TORs. The committee screened the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report and clarification/additional information provided during the meeting.

The Committee after discussion had decided to appraise the proposal as B1 and decided to recommend the proposal to SEIAA for issue of standard TORs to conduct the EIA studies. The committee also prescribed the following additional TORs.

1. Submit the compliance to earlier EC conditions and CFO conditions.
2. Establish with the layout plan, the adoption of GMP for manufacturing products supported by P & ID.
3. Sketch showing the location of the additional infrastructure in the plan of the existing industrial site.
4. Submit the details of disposal of debris generated during expansion.
5. Based on experimental data, detail the material balance / mass balance for each product with quantities of distillate residue, solvent loss and fugitive emissions. Also evaluate and present

the ratio of (i) waste to product and (ii) raw material to product for each of the products proposed to be manufactured.

6. Enlist the raw materials with quantity with particular mention of any pyrophoric & highly reactive materials and precautions taken for their storage. Also mention any restricted/banned chemicals, if used in your product manufacture proposal.
7. Provide the solvents storage plan with quantity as per standard norms highlighting any special precautions adopted for storage.
8. Evaluate and present the quantity and quality of solid and gaseous waste generated and their scheme of disposal.
9. Evaluate and present the existing and proposed water balance based on expansion.
10. For the worst case scenario, evaluate and present the quantity and characteristics of effluent discharged and their scheme of disposal through ETP
11. Describe the measures proposed for in-house recovery of solvents mentioning the efficiency of recovery.
12. Identify and evaluate the steps in the manufacturing of products that may represent risks to personnel or equipment and conduct a detailed investigation and present the hazop study along with risk assessment, disaster management for worst case scenario, all control equipment and mitigation measures adopted, emergency preparedness and onsite emergency plan.
13. Present the scheme proposed for separation of high TDS effluent and its treatment & disposal through MEE used, justifying the stages and design parameters.
14. Present the scheme proposed to isolate the lithium (if used) and other salts from MEE and explore the possibility of their disposal advantageously.
15. Evaluate the hydrogenation process (if adopted) and give a detailed description of the safety measures and precautions taken.
16. Highlight the green chemistry adopted with particular mention of your efforts to replace toxic solvents and reagents such as EDC, MDC, chloroform, butyl lithium, lithium aluminum hydride, sodium borohydride, thionyl chloride, THF etc wherever done and if bromination is done using bromine, better alternatives to bromine as brominating agent.
17. Give the justification for categorizing the proposal under 'B" category in view of closeness to Bannerghatta National Park with necessary certificate from the competent authority regarding the exact distance from the project site.

Accordingly TORs were issued on 21.05.2019. The proponent has submitted the EIA report on 05-11-2019 and the same was placed before the committee for EIA appraisal.

The proponent was invited for the 236th meeting held on 18-12-2019 to provide required clarification.

The proponent and consultant attended the meeting but the EIA report has not been circulated among the members of SEAC and hence in view of the above the committee decided to defer the proposal.

The proponent and consultant invited before 242nd SEAC online meeting for EIA appraisal.

The proponent and consultant attended 242nd SEAC meeting held on 08-05-2020 for EIA appraisal.

After detailed deliberation the committee decided the following.

This is a proposal involving expansion of the existing unit. EC for the existing unit was issued in 2015 and as far as certified EC compliance is concerned the proponent has stated that he has obtained the certification during 2019.

The committee after discussion decided to reconsider after submission of the following information.

1) Severity mapping of red and yellow zone in worst case scenario for various solvents and hazardous substances which are overlapping the habitat area in the vicinity to be relooked and reduced accordingly.
2) Vapour cloud modeling to be done for the hazardous substances.
3) Renewable energy utilization plan to harness maximum energy within the site to be prepared and submitted.
4) Storage capacity of rain water harvesting is to be looked into, in order to utilize maximum rain water.
5) Details of socio economic analysis of the impact for the project and strategies to overcome with suitable plan including comprehensive quality life index.
6) Biodiversity protection plan to be prepared in consultation with forest authorities and authenticated by PCCF wild life along with Budget back up with time frame may be submitted

Action: Secretary, SEAC to put up the proposal before SEAC in Subsequent meeting.

242.7 Proposed Expansion of API's Manufacturing capacity by addition of new products & new facility for manufacture of Biopharmaceutical Products within the existing industry premises Project at Plot no. IP-39, IP-46 & IP-60 and survey 5/7(P), nos. 58A/(P), 5/8B, 5/8C(P), 5/10(P), 6/1(P), 6/3(P), 7/1(P), 7/2, 7/3(P), 81C(P), 10/1, 10/2, 10/3, 10/4A(P), 10/5, 10/6, 10/7(P), 10/8, 10/9, 10/10A(P), 10/11(P), 10/12(P), 10/13(P), 11/1(P), 11/2(P), 11/3, 11/4, 11/5, 11/6, 11/9, 11/10, 12/5(P), 12/6(P), 12/11(P), 12/12(P), 13/1, 13/2(P), 13/3, 13/4, 13/5, 13/6, 14/4(P), 14/5(P), 14/6(P), 14/7(P), 4/8, 14/9, 15/2D(P), 15/2E, 17/8(P), 17/3(P), 17/22(P), 17/23(P), 17/25(P), 98/1(P), 98/2(P), 99/1(P), 99/2(P), 100(P) and Plot No. IP-25 (Part) & IP-61 and Survey Nos. in 175/1E (Part), 157/1F2 (Part), 107/1 (Part), 107/2 (Part), 107/3 (Part), 107/4 (Part), 105/6 (Part), 106/1 (Part), 106/2 (Part), 106/6 (Part), 106/3, 106/4, 106/5, 221/1 (Part), 221/2

(Part) of MSEZ area, Mangalore Taluk & Dakshina Kannada District by M/s **Syngene International Limited (SEIAA43IND2019)**

<table>
<tr><th>Sl. No</th><th>PARTICULARS</th><th>INFORMATION</th></tr>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td>Mr. Ranga Rao
Site Head, Mangalore Sez. Commercial Manufacturing
M/s. Syngene International Ltd,
Plot no. IP39, IP46, & IP60
Kalvar Village, Kalvar Post, Mangalore 574142</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>M/s. Syngene International Limited,
Expansion of API's manufacturing capacity & establishment of Biopharmaceutical products manufacturing facility within the existing industry premises at Plot no. IP-39, IP-46 & IP-60 and survey 5/7(P), nos. 58A/(P), 5/8B, 5/8C(P), 5/10(P), 6/1(P), 6/3(P), 7/1(P), 7/2, 7/3(P), 81C(P), 10/1, 10/2, 10/3, 10/4A(P), 10/5,10/6, 10/7(P), 10/8, 10/9, 10/10A(P), 10/11(P), 10/12(P), 10/13(P), 11/1(P), 11/2(P), 11/3, 11/4, 11/5, 11/6, 11/9, 11/10, 12/5(P), 12/6(P), 12/11(P), 12/12(P), 13/1, 13/2(P), 13/3, 13/4, 13/5, 13/6, 14/4(P), 14/5(P), 14/6(P), 14/7(P), 14/8, 14/9, 15/2D(P), 15/2E, 17/8(P), 17/3(P), 17/22(P), 17/23(P), 17/25(P), 98/1(P), 98/2(P), 99/1(P), 99/2(P), 100(P) and Plot No. IP-25 (Part) & IP-61 and Survey Nos. in 175/1E (Part), 157/1F2 (Part), 107/1 (Part), 107/2 (Part), 107/3 (Part), 107/4 (Part), 105/6 (Part), 106/1 (Part), 106/2 (Part), 106/6 (Part), 106/3, 106/4, 106/5, 221/1 (Part), 221/2 (Part) of MSEZ area, Mangalore.</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td>Project site Co-ordinates
<table>
<tr><th>Sl. No.</th><th>Co-ordinates</th><th>Sl. No.</th><th>Co-ordinates</th></tr>
<tr><td>A</td><td>12°58'53.55"N
74°51'20.63"E</td><td>H</td><td>12°58'51.80"N
74°51'38.69"E</td></tr>
<tr><td>B</td><td>12°59'2.05"N7
4°51'29.26"E</td><td>I</td><td>12°58'53.05"N
74°51'38.07"E</td></tr>
<tr><td>C</td><td>12°58'54.14"N
74°51'51.47"E</td><td>J</td><td>12°58'55.01"N
74°51'32.95"E</td></tr>
<tr><td>D</td><td>12°58'51.73"N
74°51'50.84"E</td><td>K</td><td>12°58'47.21"N
74°51'29.40"E</td></tr>
</table></td></tr>
</table>

		E	12°58'51.55"N 74°51'50.02"E	L	12°58'46.56"N 74°51'28.33"E
		F	12°58'55.05"N 74°51'44.14"E	M	12°58'48.06"N 74°51'26.71"E
		G	12°58'50.71"N 74°51'42.79"E	N	12°58'52.67"N 74°51'21.67"E

4	Environmental Sensitivity		
	a.	Distance from Nearest Lake/ River/ Nala	• Gurpur river is at 3.5 km in South direction • Arabian sea is at 6.5 km in South direction • KulaiBaggundi Lake is at 4.2 km in South west direction • PilikulaNisargaDhama Lake is at 6.5 km in south east direction • Kavoor Lake is at 6.6 km in South west direction
	b.	Distance from Protected area notified under wildlife protection act	• The PilikulaNisargaDhamaBological Park is located in 7.2 km from the project site. This park is developed by local government. • There is no reserve forest or protected area within 10 Km radius from the project site.
	c.	Distance from the interstate boundary	-
	d.	whether located in critically / severally polluted area as per the CPCB norms	-
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Sl. No. 5(f) of EIA notification 2006. Synthetic organic chemicals industry - **bulk drugs and intermediates.**
6	New/ Expansion/ Modification/ Product mix change		Expansion
7	Plot Area (Sqm)		187855.075
8	Built Up area (Sqm)		109,629.4
9	Component of developments		Facility for manufacture of API and biopharmaceutical products
10	Project cost (Rs. In crores)		Rs. 1150 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	187855.075
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan
	d.	Paved area	-

	e.	Parking	Shown in layout plan
	f.	Green belt	24324.85
	g.	Others Specify	-
	h.	Total	187855.075
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Detailed in Annexure- I of PFR

13	Raw material with quantity and their source (enclose as Annexure if necessary)		Raw materials with quantity and their source is detailed in PFR
14	Mode of transportation of Raw material and storage facility		Most of the raw materials will be received by road ways only. Dedicated storage facility will be provided for raw materials.
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-
16	Fly ash production, storage and disposal details whereas coal is used as fuel		-
17	Complete process flow diagram and technology employed		Detailed in PFR
18	Details of Plant and Machinery with capacity/ Technology used		Detailed in PFR, chapter 5, section 5.1
19	Details of VOC emission and control measures wherever applicable		Detailed in PFR, chapter 3, section 3.11
20	WATER		
	I.	Construction Phase	
	a.	Source of water	MSEZL supply
	b.	Quantity of water for Construction in KLD	80
	c.	Quantity of water for Domestic Purpose in KLD	15
	d.	Waste water generation in KLD	5
	e.	Treatment facility proposed and scheme of disposal of treated water	Existing onsite ETP
	II	Operational Phase	
	a.	Source of water	KIADB supply/ Borewell water
	b.	Total Requirement of Water in KLD	Fresh -

			Recycled	-
			Total	1631
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	-
			Recycled	Details are provided in Prefeasibility report
			Total	
	d.	Requirement of water for domestic purpose in KLD	Fresh	
			Recycled	
			Total	
	e.	Waste water generation in KLD	Industrial effluent	
			Domestic sewage	
			Total	
	f.	ETP/ STP capacity		
	g.	Technology employed for Treatment	Detailed in PFR (Zero Liquid Discharge)	
	h.	Scheme of disposal of excess treated water if any	-	
21	Infrastructure for Rain water harvesting		-	
22	Storm water management plan		-	
23	Air Pollution		-	
	a.	Sources of Air pollution& Control measures	Process reactors Wet scrubber • API - 4 Scrubbers • Non-API - 4 Scrubbers Are provided to treat process emissions from APIs & Non-APIs products. This will be adequate to treat the proposed additional APIs (6 Nos.) products. Scrubber: There will be negligible quantity process emissions from biopharmaceutical products as there is no use of solvents. However, 04 scrubber will be provided to control emission from manufacturing process. 1. Acid scrubber 2. Alkaline scrubber 3. Media scrubber 4. Acid / alkali scrubber Utility section Boilers - 10 TPH & 10 TPH (standby) 30 m stack height is provided and additional 2 TPH boiler for biopharmaceutical products is required. Boiler – 5 TPH for ETP operation is provided	

<table>
<tr><td></td><td></td><td></td><td>DG sets of 3000 KVA x 2 Nos. are installed and additional 2000 KVA DG set proposed as power backup. 33 m height will be provided as per KSPCB norms.

DG set of 500 KVA for ETP operation</td></tr>
<tr><td></td><td>b.</td><td>Composition of Emissions</td><td>SO_2, NOx</td></tr>
<tr><td>24</td><td colspan="2">Noise Pollution</td><td></td></tr>
<tr><td></td><td>a.</td><td>Sources of Noise pollution</td><td>Diesel generators and pumps are provided with noise and vibration control and acoustic measures as per guidelines.</td></tr>
<tr><td></td><td>b.</td><td>Expected levels of Noise pollution in dB</td><td>Within the limits KSPCB prescribed for industrial area.</td></tr>
<tr><td></td><td>c.</td><td>Noise pollution control measures proposed</td><td>D.G. setsare used only during the emergency of power failure to run essential services. Acoustic enclosures are provided to DG sets.</td></tr>
<tr><td>25</td><td colspan="3">WASTE MANAGEMENT</td></tr>
<tr><td></td><td>I.</td><td colspan="2">Operational Phase</td></tr>
<tr><td></td><td>a.</td><td>Quantity of Solid waste generated per day and their disposal</td><td>Biodegradable
Non- Biodegradable
Solid Waste:
Office waste like paper etc. is expected.
Plastic drums and bags will be sold to KSPCB authorized recycler.</td></tr>
<tr><td></td><td>b.</td><td>Quantity of Hazardous Waste generation with source and mode of Disposal as per norms</td><td>Mode of disposal of hazardous waste will be detailed in PFR.
<table>
<tr><th>Sl. No.</th><th>Hazardous waste</th><th>Quantity Existing</th><th>After expansion Quantity</th></tr>
<tr><td>1.</td><td>Used Oil</td><td>1200 L/A</td><td>1800 L/A</td></tr>
<tr><td>2.</td><td>Process residue</td><td>2.45 TPD</td><td>7.577 TPD</td></tr>
<tr><td>3.</td><td>Spent catalyst</td><td>0.094 TPD</td><td>0.434 TPD</td></tr>
<tr><td>4.</td><td>MEE Salts</td><td>7 TPD</td><td>11 TPD</td></tr>
<tr><td>5.</td><td>Spent/Distillated solvent</td><td>143.25 TPD</td><td>186.21 TPD</td></tr>
<tr><td>6.</td><td>ETP sludge</td><td>15 TPA</td><td>18 TPA</td></tr>
<tr><td>7.</td><td>Detoxified container</td><td>40000 Nos</td><td>60000 Nos.</td></tr>
</table></td></tr>
<tr><td></td><td>c.</td><td>Quantity of E waste generation with source and mode of Disposal as per</td><td>-</td></tr>
</table>

		norms	

26	Risk Assessment and disaster management		Risk assessment will be carried out during EIA studies
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	6000 KVA for manufacturing facility &400 KW for ETP area 1500 KVA additional power requirement for operation of new facility. Sourced from MSEZ.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	DG sets of 3000 KVA x 2 Nos. are installed and additional 2000 KVA DG set proposed as power backup.33 m height will be provided as per KSPCB norms. DG set of 500 KVA for ETP operation
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,	Details are provided in PFR.
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	-
28	PARKING		
	a.	Parking Requirement as per norms	Provided as per standard
	b.	Internal Road width (RoW)	Detailed in Plant layout plan.
29		Any other information specific to the project (Specify)	

The proponent was invited for the 237th meeting held on 3rd January 2020 for appraisal.

The proponent and Environment consultant attended the 237th meeting held on 03-01-2020 to provide clarification/additional information. The committee appraised the proposal considering the information provided in the statutory application – Form 1, Pre-feasibility report and clarification/additional information provided during the meeting.

Earlier EC was issued covering the activities of 48 APIs 388TPA and 9 Non APIs 320TPA. Now this proposal is to add additional 6APIs 106.85TPA and 28 Biopharmaceutical products 1.056TPA and R&D facility for custom synthesis to produce 10% of approved production capacity.

The committee after discussion had decided to appraise the proposal as B1 and decided to recommend the proposal to SEIAA for issue of standard TORs to conduct the EIA studies. The committee also prescribed the following additional TORs.

1. Green buffer in the form of green belt should keep 33% of the allotted area as a green area.
2. Water analysis to cover presence of heavy metals.

The TORs are yet to be issued by SEIAA. The proponent requested vide letter dated. 16.04.2020 to appraise his project under B2 category as per the recent MoEF & CC, Govt. of India Notification.

The proponent was invited for the 242nd meeting held on 08.05.2020 to provide required clarification and additional information.

The proponent remained absent with intimation by giving letter.

The committee after discussion decided to provide one more opportunity to proponent with an intimation that the proposal will be appraised based on merit in his absence, in case he remains absent and deferred the subject.

Action: Secretary, SEAC to put up the proposal before SEAC in Subsequent meeting.

2:30PM to 6:00PM

242.8 Proposed Expansion of Change in Product Mix of Bulk Drugs/API's Manufacturing Project at Plot Nos.126 to 129 of Chiksuguar Village, Raichur Taluk & District by M/s. Raichur Laboratories Pvt. Ltd **(SEIAA 6 IND 2020)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Dr. Vijender M, Executive Director, M/s. Raichur Laboratories Pvt. Ltd., Flat No. 502, Lokeshwari Residency, H.No.1-4-94/502, street no.8, Habsiguda, Hyderabad – 500007
2	Name & Location of the Project	M/s. Raichur Laboratories Pvt. Ltd. Expansion with change in product mix of bulk drugs and intermediates manufacturing industry with R&D at Plot No. 126 to 129, Raichur Growth Centre, Village Chiksugaur, District Raichur, Karnataka
3	Co-ordinates of the Project Site	Project site Co-ordinates

			Co-ordinates	**Directions**
			16.307481°N; 77.355948°E	South West
			16.307059°N; 77.357668°E	South East
			16.307836°N; 77.357875°E	North East
			16.308245°N; 77.356153°E	North West
4	Environmental Sensitivity			
	a.	Distance from Nearest Lake/ River/ Nala	Konad Halla, 1.5 km towards north Krishna river, 8.1 km towards north	
	b.	Distance from Protected area notified under wildlife protection act	-	
	c.	Distance from the interstate boundary	Karnataka and Telangana Inter-State boundary is at 8.2 km towards North.	
	d.	Whether located in critically / severally polluted area as per the CPCB norms	No	
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Sl. No. 5(f) of EIA notification 2006. Synthetic organic chemicals industry - bulk drugs and intermediates.	
6	New/ Expansion/ Modification/ Product mix change		Expansion	
7	Plot Area (Sqm)		16,054 SQM	
8	Built Up area (Sqm)		8,027 SQM	
9	Component of developments			
10	Project cost (Rs. In crores)		Rs. 0.6 Crores	
11	Details of Land Use (Sqm)			
	a.	Ground Coverage Area	8,027 SQM	
	b.	Kharab Land	-	
	c.	Internal Roads	Shown in layout plan	
	d.	Paved area	2,408 SQM	
	e.	Parking	Shown in layout plan	
	f.	Green belt	5,619 SQM	
	g.	Others Specify	-	
	h.	Total	16,054 SQM	

12	Products and By- Products with quantity (enclose as Annexure if necessary)	Detailed in PFR, Chapter 1 & 2
13	Raw material with quantity and their source (enclose as Annexure if necessary)	Detailed in PFR, Chapter 2

14	Mode of transportation of Raw material and storage facility		Raw materials are transported by road. Dedicated storage facility is provided.	
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		-	
16	Fly ash production, storage and disposal details whereas coal is used as fuel		-	
17	Complete process flow diagram and technology employed		Detailed in PFR, Annexure A.	
18	Details of Plant and Machinery with capacity/ Technology used		No additional plant and machinery is proposed in expansion. Existing facilities are adequate.	
19	WATER			
	I.	Construction Phase		
	a.	Source of water	Source - KIADB supply	
	b.	Quantity of water for Construction in KLD	Negligible as no major construction activity is involved. Only solvent storage tanks are proposed to be constructed.	
	c.	Quantity of water for Domestic Purpose in KLD	-	
	d.	Wastewater generation in KLD	-	
	e.	Treatment facility proposed and scheme of disposal of treated water	Existing treatment facilities within the premises will be used.	
	II	Operational Phase		
	a.	Source of water	KIADB supply	
	b.	Total Requirement of Water in KLD	Fresh	62.4
			Recycled	105.4
			Total	167.8
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	-
			Recycled	-
			Total	74.3
	d.	Requirement of water for domestic purpose in KLD	Fresh	-
			Recycled	-
			Total	6
	e.	Waste water generation in KLD	Industrial effluent	100.4
			Domestic sewage	5
			Total	105.4
	f.	ETP/ STP capacity	Effluents will be segregated into high TDS and low TDS effluent. High TDS effluent will be treated in ETP consisting	

			of solvent stripper, Multi-Effect Evaporator (MEE) followed by Agitated Thin Film Drier (ATFD). Condensate from MEE will be treated along with low TDS effluent and domestic sewage in biological treatment plant (ETP) followed by RO and ultra filtration. RO permeate will be recycled and rejects will be taken to MEE. The effluent treatment facility is based on Zero Liquid Discharge concept.
	g.	Technology employed for Treatment	Detailed in PFR (Zero Liquid Discharge)
	h.	Scheme of disposal of excess treated water if any	-
21	Infrastructure for Rain water harvesting		Proposed rainwater harvesting tank of 100 KL
22	Storm water management plan		Proposed 23 groundwater recharging pits around the industry premises.
23	Air Pollution		-
	a.	Sources of Air pollution	Detailed in EMP report, Chapter 2
	b.	Composition of Emissions	SO_2, NOx
	c.	Air pollution control measures proposed and technology employed	Detailed in EMP report, Chapter 2
24	Noise Pollution		
	a.	Sources of Noise pollution	Diesel generator is provided with in-built acoustics.
	b.	Expected levels of Noise pollution in dB	Within the limits prescribed by CPCB for industrial area.
	c.	Noise pollution control measures proposed	D.G. set is used only during the emergency of power failure to run essential services. DG set is provided with in-built acoustics.
25	WASTE MANAGEMENT		
	I.	Operational Phase	
	a.	Quantity of Solid waste generated per day and their disposal	Detailed in EMP report, Chapter 2.
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Detailed in EMP report, Chapter 2.

	c.	Quantity of E waste generation with source and mode of Disposal as per norms	-
26	Risk Assessment and disaster management		Detailed in EMP report, Annexure B.
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	Total power requirement to the industry is 510 KVA, sourced from GESCOM.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	360 KVA X 1 no.
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,	• DG set - HSD - 27 L/h • Boiler - Briquettes - 100 kg/h / Coal - 60 kg/h • Thermic fluid heater - Briquettes - 100 kg/h
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	-
28	PARKING		
	a.	Parking Requirement as per norms	Provided as per standard
	b.	Internal Road width (RoW)	Detailed in Plant layout plan.
29		Any other information specific to the project (Specify)	-

The proponent requested vide letter dated. 17.04.2020 to appraise his project under B2 category as per the recent MoEF & CC, Govt. of India Notification.

The proponent was invited for the 242nd online meeting held on 07.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC online meeting held on 07-05-2020.

This is a proposal involving expansion of the existing project, the EC for which was issued by MoEF & CC, Govt. of India for the fact that it was classified as A category project falling within 10KM from interstate boundary and because of the COVID crisis all API projects are categorized under B2 category, Hence the committee appraised this project categorizing under B2 category.

During appraisal the proponent has stated that he has replaced the Toluene and Bromine with the alternatives Ethyl Acetate and N-Bromo Succinide respectively and he has also stated that he will go for three stage solvent recovery, by which he is achieving 95-97% recovery. As far as compliance to EC is concerned proponent has stated that he has submitted all the compliances to MoEF & CC, Regional office, Bangalore and they are yet to make site visit and certification is pending in view of COVID crisis.

As far as CER is concerned the proponent has stated that he has earmarked Rs 60000.00 and he will contribute to PM care fund.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

Deffered Projects

242.9 Proposed Manufacturing of Bulk Drugs and Intermediates at Plot No.:263, Kadechur Industrial area, Yadagir Distirct, Karnataka. **by M/s. CIL Laboratories Pvt. Ltd (SEIAA 15 IND 2020)**

The proponent has submitted a letter on 23-04-2020 requesting the committee to consider their subject in the next meeting, as they are not able to attend this meeting due to some unavoidable circumstances.

The committee after discussion during 241st SEAC Meeting held on 23-04-2020 meeting had decided to provide one more opportunity to the proponent with intimation that the proposal will be appraised based on merit in his absence, in case he remains absent and deferred the project appraisal.

Sl. No	PARTICULARS	INFORMATION
1	Name and Address of the Project Proponent	**"Manufacturing of Bulk drugs and intermediates"** H. NO. 3-11-53, Plot No. 53, road No. 5, HCL Nagar, Mallapur, Hyderabad, Telangana
2	Name and Location of the Project	**M/s. CIL Laboratories Pvt. Ltd** Plot No.:263, Kadechur Industrial area, Yadagir Distirct, Karnataka.
3	Co-ordinates of the Project Site	**Latitude**: 16°32'2.31"N **Longitude**: 77°18'21.81"E
4	Environmental Sensitivity	
	a. Distance From nearest Lake/ River/ Nala	Krishna river at 16.7 km (SW)
	b. Distance from Protected area notified under wildlife protection act	--
	c. Distance from the interstate boundary	Karnataka– Telangana interstate boundary – 3.45 Km (SE)

	d.	Whether located in critically / severally polluted area as per the CPCB norms	No
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Activity 5 (f) of Category-B
6	New/ Expansion/ Modification/ Product mix change		New
7	Plot Area (Sqm)		8100 Sqmt
8	Built Up area (Sqm)		
9	Component of developments		"Manufacturing of bulk drugs and intermediates unit"
10	Project cost (Rs. In crores)		Rs. 8 crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	1695.35
	b.	Kharab Land	--
	c.	Internal Roads	2252
	d.	Paved area	--
	e.	Parking	45
	f.	Green belt	2685
	g.	Others Specify	Future expansion – 1422.65
	h.	Total	8100
12	Products and By- Products with quantity (enclose as Annexure if necessary)		List of Products are enclosed as Annexure
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Detailed in feasibility report

14	Mode of transportation of Raw material and storage facility	The chemicals required for the process mostly bought from the local (indigenous) markets. Mode of transportation of all materials to the project site is by road. Liquid chemicals will be stored in tanker yard, Drum yard and the solid chemicals will be in stores
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant	Mode of transportation of coal to the project site is by road and will be stored in coal storage yard
16	Fly ash production, storage and disposal details whereas coal is used as fuel	Coal ash from boiler will be stored in designated area and will sent to brick manufacturing industry
17	Complete process flow diagram and technology employed	Detailed in feasibility report
18	Details of Plant and Machinery with capacity/ Technology used	Briquettes/Coal fired Boilers: 1.5 TPH
19	Details of VOC emission and control	--

	measures wherever applicable			
20	WATER			
	I.	Construction Phase		
	a.	Source of water	KIADB	
	b.	Quantity of water for Construction in KLD	10 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	1.5 KLD	
	d.	Waste water generation in KLD	1.3 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Will be treated in mobile toilet.	
	II	Operational Phase		
	a.	Source of water	KIADB	
	b.	Total Requirement of Water in KLD	Fresh	49.06 KLD
			Recycled	--
			Total	**49.06 KLD**
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	44.06 KLD
			Recycled	--
			Total	**44.06 KLD**
	d.	Requirement of water for domestic purpose in KLD	Fresh	3 KLD
			Recycled	--
			Total	**3 KLD**
	e.	Waste water generation in KLD	Industrial effluent	17.1 KLD
			Domestic sewage	1.5 KLD
			Total	**18.6 KLD**
	f.	ETP/ STP capacity	The wastewater will be sent to Common effluent Treatment Plant	
	g.	Technology employed for Treatment	The wastewater will be sent to Common effluent Treatment Plant	
	h.	Scheme of disposal of excess treated water if any	The wastewater will be sent to Common effluent Treatment Plant	
21	Infrastructure for Rain water harvesting		Will be implemented	
22	Storm water management plan		Will be implemented	
23	Air Pollution			
	a.	Sources of Air pollution	DG set of capacity – 125 KVA X 1 Boiler– Briquette/Coal fired Boiler: 1.5 TPH	
	b.	Composition of Emissions	--	
	c.	Air pollution control measures proposed and technology employed	Scrubbers	
24	Noise Pollution			
	a.	Sources of Noise pollution	DG set, motors, compressor	
	b.	Expected levels of Noise pollution in dB	75 dB	
	c.	Noise pollution control measures	DG set will be installed with inbuilt acoustic	

		proposed	enclosures.
25	WASTE MANAGEMENT		
	I.	Operational Phase	
	a.	Quantity of Solid waste generated per day and their disposal	The list of solid waste with their quantity is mentioned in PFR report
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	The list of hazardous waste with their quantity is mentioned in PFR report
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	--
26	Risk Assessment and disaster management		Will be provided
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	Power required – 270 HP Source- KIADB
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	125 KVA X 1
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Boiler – Coal fired DG set - HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	--
28	PARKING		
	a.	Parking Requirement as per norms	--
	b.	Internal Road width (RoW)	Approach road width- 7 m Internal road width – 5 m **(min)**
29		Any other information specific to the project (Specify)	--

The proponent was invited for the 242nd meeting held on 08.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC meeting held on 08-05-2020.

The committee observed that this is a Greenfield project proposal situated at 3.4KM from the interstate Telangana boundary. As per earlier norms it should have been the A category project, but due to change of policy and in view of MoEF & CC, Govt. of India Notification the proponent has stated that he has made out the application under B2 category. During appraisal the proponent has agreed to go for ZLD unit instead of sending effluents to CETP and also he has agreed to replace solvent Toluene and Benzene with alternatives.

As far as CER is concerned the proponent has stated that he will contribute Rs 10Lakhs to PM care account.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance with following conditions.

1) Revised EMP incorporating proposed ETP along with flow chart in order to achieve ZLD may be worked out and submitted.
2) Replace Toluene and Benzene with the alternatives.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

242.10 Proposed Modification of Bulk drugs and intermediates manufacturing unit at Plot No.:35, Chikkaballapura Industrial area, Chikkaballapura Taluk & District, Karnataka by **M/s. Ram Rasayanic Pvt. Ltd (SEIAA 13 IND 2020)**

The proponent has submitted a letter on 23-04-2020 requesting the committee to consider their subject in the next meeting, as they are not able to attend this meeting due to some unavoidable circumstances.

The committee after discussion during 241st SEAC Meeting held on 23-04-2020 meeting had decided to provide one more opportunity to the proponent with intimation that the proposal will be appraised based on merit in his absence, in case he remains absent and deferred the project appraisal.

No	PARTICULARS		INFORMATION
1	Name and Address of the Project Proponent		**"Bulk drugs and intermediates manufacturing unit"** 3/293, New Post Office road, Chikkaballapura, Karnataka
2	Name and Location of the Project		**M/s. Ram Rasayanic Pvt. Ltd** Plot No.:35, Chikkaballapura Industrial area, Chikkaballapura Taluk & District, Karnataka.
3	Co-ordinates of the Project Site		**Latitude**: 13°24'38.25"N **Longitude**: 77°43'47.91"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Kandavara Lake at 1.7 km (NW)
	b.	Distance from Protected area notified under wildlife protection act	--
	c.	Distance from the interstate boundary	Karnataka– Andhra Pradesh interstate boundary – 39 Km (NW)
	d.	Whether located in critically / severally polluted area as per the CPCB norms	No

5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Activity 5 (f) of Category-B
6	New/ Expansion/ Modification/ Product mix change		Modification
7	Plot Area (Sqm)		2029 Sq mt
8	Built Up area (Sqm)		
9	Component of developments		"Bulk drugs and intermediates manufacturing unit"
10	Project cost (Rs. In crores)		Rs. 1 crores
11	Details of Land Use (Sq m)		
	a.	Ground Coverage Area	811
	b.	Kharab Land	--
	c.	Internal Roads	548
	d.	Paved area	--
	e.	Parking	--
	f.	Green belt	670
	g.	Others Specify	--
	h.	Total	2029

12	Products and By- Products with quantity (enclose as Annexure if necessary)

S.No	Name of the product	Quantity in MTPM
1	2 Mercapto Benzimidazole	10
2	5,Methyl 2 Mercapto Benzimidazole	10
3	5-Methoxy 2 Mercapto Benzimidazole	15
	Total	**35**

13	Raw material with quantity and their source (enclose as Annexure if necessary)	Detailed in feasibility report
14	Mode of transportation of Raw material and storage facility	The chemicals required for the process mostly bought from the local (indigenous) markets. Mode of transportation of all materials to the project site is by road. Liquid chemicals will be stored in tanker yard, Drum yard and the solid chemicals will be in stores
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant	Mode of transportation of coal to the project site is by road and will be stored in coal storage yard
16	Fly ash production, storage and disposal details whereas coal is used as fuel	Coal ash from boiler will be stored in designated area and will sent to brick manufacturing industry
17	Complete process flow diagram and technology employed	Detailed in feasibility report

18	Details of Plant and Machinery with capacity/ Technology used		Wood fired Boilers: 1 TPH
19	Details of VOC emission and control measures wherever applicable		--
20	WATER		
	I.	Construction Phase	
	a.	Source of water	KIADB
	b.	Quantity of water for Construction in KLD	1 KLD
	c.	Quantity of water for Domestic Purpose in KLD	0.45 KLD
	d.	Waste water generation in KLD	0.38 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	Will be treated in mobile toilet.

	II	Operational Phase		
	a.	Source of water	KIADB	
	b.	Total Requirement of Water in KLD	Fresh	16.25 KLD
			Recycled	--
			Total	**16.25 KLD**
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	10.9 KLD
			Recycled	--
			Total	**10.9 KLD**
	d.	Requirement of water for domestic purpose in KLD	Fresh	1.35 KLD
			Recycled	--
			Total	**1.35 KLD**
	e.	Waste water generation in KLD	Industrial effluent	6.26 KLD
			Domestic sewage	1.14 KLD
			Total	**7.2 KLD**
	f.	ETP/ STP capacity	The wastewater will be sent to Common effluent Treatment Plant located at KIADB industrial area, Sampura, Dabaspet, Bangalore.	
	g.	Technology employed for Treatment	The wastewater will be sent to Common effluent Treatment Plant located at KIADB industrial area, Sampura, Dabaspet, Bangalore.	
	h.	Scheme of disposal of excess treated water if any	The wastewater will be sent to Common effluent Treatment Plant located at KIADB industrial area, Sampura, Dabaspet, Bangalore.	
21	Infrastructure for Rain water harvesting		Will be implemented	
22	Storm water management plan		Will be implemented	
23	Air Pollution			
	a.	Sources of Air pollution	DG set of capacity– 62.5 KVA X 1 Boiler – Wood fired Boilers: 1 TPH	

	b.	Composition of Emissions	--
	c.	Air pollution control measures proposed and technology employed	Scrubbers
24	Noise Pollution		
	a.	Sources of Noise pollution	DG set, motors, compressor
	b.	Expected levels of Noise pollution in dB	75 dB
	c.	Noise pollution control measures proposed	DG set will be installed with inbuilt acoustic enclosures.

25	WASTE MANAGEMENT		
	I.	Operational Phase	
	a.	Quantity of Solid waste generated per day and their disposal	The list of solid waste with their quantity is mentioned in PFR report
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	The list of hazardous waste with their quantity is mentioned in PFR report
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	--
26	Risk Assessment and disaster management		Will be provided during EIA submission
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	Electricity--200 KVA Existing - 100 KVA Proposed – 100 KVA Source- BESCOM
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Existing- 62.5 KVA X 1
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Boiler – Wood fired DG set - HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	--
28	PARKING		
	a.	Parking Requirement as per norms	--
	b.	Internal Road width (RoW)	Approach road width- 7 m Internal road width – 5 m **(min)**
29		Any other information specific to the project (Specify)	--

The proponent was invited for the 242nd meeting held on 08.05.2020 to provide required clarification and additional information.

The proponent and consultant attended 242nd SEAC meeting held on 08-05-2020.

This is an existing inorganic unit for which EC was not mandated, now the proponent wants to convert it into organic products, he has come before this committee for issue of EC. Earlier he made out an application under B1 category and in view of the changed policy he requested to categorize this project under B2 category and hence the project has been appraised categorizing the proposal under B2 category. During appraisal the proponent has agreed to put up ZLD unit and he has also agreed to replace the solvents like Toluene etc with eco friendly solvents.

As far as CER is concerned the proponent has stated that he will earmark Rs 1lakh and contribute the same to PM cares fund.

The committee after discussion and deliberation decided to recommend the project for issue of Environmental Clearance with following conditions.

1) Revised EMP incorporating proposed ETP along with flow chart in order to achieve ZLD may be worked out and submitted.
2) Replace Toluene and Benzene with the alternatives.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

242.11 Proposed Manufacturing of Bulk Drugs and Intermediates at Plot No.:19-B, Chikkaballapura Industrial area, Nandi Hobli, Chikkaballapura Taluk & District, Karnataka **by M/s. Banay Equipments and Services Pvt ltd (SEIAA 14IND 2020)**

Sl. No	PARTICULARS		INFORMATION
1	Name and Address of the Project Proponent		**Mr. K. Sathyanarayana and Mrs. K. Suneetha** C - 502, "AQUA", Ozone Urbana, Kannamangala, Bangalore
2	Name and Location of the Project		**"Manufacturing of Bulk Drugs and Intermediates" by M/s. Banay Equipmenyts and Services Pvt. Ltd** Plot No.:19-B, Chikkaballapura Industrial area, Nandi Hobli, Chikkaballapura Taluk & District, Karnataka.
3	Co-ordinates of the Project Site		**Latitude**: 13°24'32.70"N **Longitude**: 77°43'51.95"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Kandavara Lake at 1.5 km (NW)
	b.	Distance from Protected area notified	--

		under wildlife protection act	
	c.	Distance from the interstate boundary	Karnataka– Andhra Pradesh interstate boundary – 37 Km (N)
	d.	Whether located in critically / severally polluted area as per the CPCB norms	No

5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Activity 5 (f) of Category-B
6	New/ Expansion/ Modification/ Product mix change		New
7	Plot Area (Sqm)		1917.88 Sqmt
8	Built Up area (Sqm)		
9	Component of developments		"Manufacturing of bulk drugs and intermediates"
10	Project cost (Rs. In crores)		Rs. 1.1 crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	1100
	b.	Kharab Land	--
	c.	Internal Roads	--
	d.	Paved area	--
	e.	Parking	--
	f.	Green belt	633
	g.	Others Specify	Open spaces and paved area - 184.88
	h.	Total	1917.88
12	Products and By- Products with quantity (enclose as Annexure if necessary)		**Sl.No** / **Name of the product** / **Quantity in MTPM** 1 / 2 Mercapto Benzimidazole / 10 2 / 5,Methyl 2 Mercapto Benzimidazole / 10 3 / 5-Methoxy 2 Mercapto Benzimidazole / 15 **Total** / **35**
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Detailed in feasibility report
14	Mode of transportation of Raw material and storage facility		The chemicals required for the process mostly bought from the local (indigenous) markets. Mode of transportation of all materials to the project site is by road. Liquid chemicals will be stored in tanker yard, Drum yard and the solid chemicals will be in stores

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17	Complete process flow diagram and technology employed		Detailed in feasibility report	
18	Details of Plant and Machinery with capacity/ Technology used		Proposed - Wood fired Boilers: 1TPH	
19	Details of VOC emission and control measures wherever applicable		--	
20	WATER			
	I.	Construction Phase		
	a.	Source of water	KIADB	
	b.	Quantity of water for Construction in KLD	Not applicable. No Construction work required since it is an existing facility.	
	c.	Quantity of water for Domestic Purpose in KLD	Not applicable.	
	d.	Waste water generation in KLD	Not applicable.	
	e.	Treatment facility proposed and scheme of disposal of treated water	Not applicable	
	II	Operational Phase		
	a.	Source of water	KIADB	
	b.	Total Requirement of Water in KLD	Fresh	16.25 KLD
			Recycled	--
			Total	**16.25 KLD**
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	10.9 KLD
			Recycled	--
			Total	**10.9 KLD**
	d.	Requirement of water for domestic purpose in KLD	Fresh	1.35 KLD
			Recycled	--
			Total	**1.35 KLD**
	e.	Waste water generation in KLD	Industrial effluent	6.26 KLD
			Domestic sewage	1.14 KLD
			Total	**7.2 KLD**
	f.	ETP/ STP capacity	The wastewater will be sent to Common effluent Treatment Plant located at KIADB industrial area, Sampura, Dabaspet, Bangalore.	
	g.	Technology employed for Treatment	The wastewater will be sent to Common effluent Treatment Plant located at KIADB industrial area, Sampura, Dabaspet, Bangalore.	

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2) Replace Toluene and Benzene with the alternatives.

Action: Secretary, SEAC to forward the proposal to SEIAA for further necessary action.

Secretary, SEAC
Karnataka

Chairman, SEAC
Karnataka