Submitted to M.S, SEIAA for kind information.

02/06/20

Proceedings of the 243rd SEAC Online Meeting held on 21st and 22nd May 2020
21st May 2020

Members present in the meeting:

2/6/2020
So.Se.O
SEIAA

Sri. N. Naganna	-	Chairman
Dr. B. Chikkappaiah, IFS(R)	-	Member
Dr.N Krishnamurthy	-	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

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 243rd 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 **242nd SEAC meeting** held on 7th and 8th May 2020

The State Expert Appraisal Committee, Karnataka perused the proceedings of 242nd SEAC meeting held on 7th and 8th May 2020 and confirmed the same.

21st May 2020
10:00 AM to 2:00PM

EIA PROJECT:

243.1 Establishment of manufacturing unit of Active Pharmaceutical Ingredients (API's) at Plot No 626 to 641 and 643 to 664, Harohalli 3rd Phase KIADB Industrial Area, Kanakapura Taluk, Ramnagara District,Bangalore Urban,Karnataka-560105 **by M S ACEBRIGHT (INDIA) PHARMA PVT LTD (SEIAA 32 IND 2019)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Mrs. Manorama Avinash, Executive Director M/s Acebright (India) Pharma Pvt. Ltd. #77 D & 116/117, KIADB Industrial area Jigani, Bangalore- 560105.
2	Name & Location of the Project		Establishment of new manufacturing unit to manufacture Active Pharmaceutical Products (API's) at Plot No 626 to 641 and 643 to 664, Harohalli 3rd Phase KIADB Industrial Area, Kanakapura Taluk, Ramanagara District
3	Co-ordinates of the Project Site		12°39'34.00"N; 77°25'45.41"E 12°39'33.95"N 77°25'55.85"E 12°39'18.48"N 77°25'55.57"E 12°39'20.56"N 77°25'45.37"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Kagalhallidoddi Lake - 0.5 Km, NE Vrishabawathi River – 2.25Km, NW Suvarnamukhi Water Reservoir – 1.9Km, W Harohalli Lake-4.5Km, NE
	b.	Distance from Protected area notified under Wildlife Protection Act	Handigundi Reserved Forest – 5.25 Km, W Bananthimari Reserve Forest – 9.4 Km, SW Bannergatta National Park – 11.10 Km , E Gangadharan Reserve Forest-6.0Km, SE
	c.	Distance from the interstate boundary	-
	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		5(f)

	with relevant serial number		
6	New/ Expansion/ Modification/		Establishment of new manufacturing unit to manufacture of Active Pharmaceutical Products (API's)
7	Plot Area (Sqm)		1,41,223.67 Sqm (34.89 Acres)
8	Built Up area (Sqm)		35,3000Sqm
9	Component of developments		Establishment of new manufacturing unit to manufacture Active Pharmaceutical Products (API's)
10	Project cost (Rs. In crores)		494.74 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	-
	b.	Kharab Land	-
	c.	Internal Roads	Roads, Drainage- 16950Sqm
	d.	Paved area	
	e.	Parking	1650 Sq.m
	f.	Green belt	46650 Sq.m
	g.	Others Specify	Production blocks including solvent recovery plant: 30739 Warehouse & Drum Yard: 12084 Solvent storage areas: 4012 Utilities: 7912 Transformer, DG and Power Control systems: 1450 QC, Microbiology lab, Office area, R & D & Canteen: 4785 ETP, STP, MEE, RO system & Scrap yard: 6700 OHC and Security: 200 Total: 67882 Sq.m
	h.	Total	1,41,223.67 Sqm (34.89 Acres)
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-7
14	Mode of transportation of Raw material and storage facility		Mode of transportation of raw material and end products: Trucks Raw materials will be stored in warehouse 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 will be provided in the EIA report.
19	Details of VOC emission and control measures wherever applicable		<u>Emissions</u> Emissions from Boiler & DG sets <u>Control Measures</u> For Boiler- Stack of adequate height DG Set - Acoustic Enclosure.
20	WATER		
	I.	Construction Phase	
	a.	Source of water	Borewell / tankers
	b.	Quantity of water for Construction in KLD	50KLD
	c.	Quantity of water for Domestic Purpose in KLD	10KLD for labours
	d.	Waste water generation in KLD	8KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	Wastewater will be treated in mobile STP
	II	Operational Phase	
	a.	Source of water	Borewell/ tankers
	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	

Sl.no.	Description	Water Break Up			
		Total water Requirement	Water Loses	Effluent generated KLD	Effluent treated
1	Domestic	50	1	49	49
2	Green Belt	139	139		
3	Industrial				
4	Process	580		464-HTDS	
				116-LTDS	
5	Utility				
6	Cooling Tower	440	430	10	595
7	Boiler	60 (30+30)	55	5	

	e.	Waste water generation in KLD	Total water consumption 1329 KLD, Freshwater requirement: 750 KLD and recycled water: 579 KLD
			Effluent quantity will be 595 cum/day
	f.	ETP/ STP capacity	Effluents will be segregated into HTDS and LTDS. HTDS effluents will be treated in ETP consisting of solvent stripper, MEE followed by VTFD. Condensate will be treated in the biological treatment of LTDS followed by RO and RO permeate will be reused for utilities. Salts generated from MEE/ VTFD will be handed over to TSDF (Treatment Storage Disposal facility) facility. Domestic sewage will be treated in the STP consisting of biological treatment plant. RO permeate will be recycled and rejects will be taken to MEE. The effluent treatment facility is based on Zero Liquid Discharge concept. The effluent quantity will be 595 KLD. Treatment scheme is attached as Annexure 4 Sewage- 49 KLD will be treated in the proposed STP (50 KLD capacity) within the premises
	g.	Technology employed for Treatment	
	h.	Scheme of disposal of excess treated water if any	
21	Infrastructure for Rain water harvesting		Details will be provided in the EIA report.
22	Storm water management plan		Storm water drain will be constructed around the project site.
23	Air Pollution		
	a.	Sources of Air pollution	Air pollution sources and constituents is listed in Annexure - 05.
	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 will 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 will be avoided by security deployed at the entry/exit gates.			
25	WASTE MANAGEMENT					
	I.	Operational Phase				
	a.		Biodegradable (Domestic)	50MT		
			Non- Biodegradable (Domestic)	440 MT		
		Quantity of Solid waste generated per day and their disposal	**Solid Waste Name**	**Quantity (MT)**	**Disposal Facility**	
			Paper, Paper board and paper product waste	200 MT	KSPCB Authorized Vendor	
			Wood Waste	100MT	KSPCB Authorized Vendor	
			Glass Waste in non dispersible form	40 MT	KSPCB Authorized Vendor	
			Metal Waste	100 MT	KSPCB Authorized Vendor	
			Organic Waste (Canteen)	50MT	Piggeries	
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	**DESCRIPTION**	**QUANTITY PER YEAR**	**METHOD OF COLLECTION**	**Remarks**
			Used Oil	60 KL	Collected in leak proof containers	
			Oil soaked cotton	9 MT/ annum	Stored in secured manner	
			Distillation residue	7807 MT/ annum	Stored in secured manner	2% waste from SRS
			Residues and waste from	4540 MT/ annum	Stored in secured manner	Spent Hyflo + Na_2SO_4+ silica gel +

			production of drugs			mg SO_4
			Spent Carbon	90 MT/ annum	Stored in secured manner	Activated charcoal waste from process
			Spent organic solvent	8700 KL / annum	Stored in secured manner	All non-recoverable solvents considered
			Discarded liners	90 MT/ annum	Stored in secured manner	Based on quantities of production
			Discarded bottles	18000 Nos/ annum	Stored in secured manner	
			Discarded barrels	90000 Nos / annum	Stored in secured manner	
			Chemical sludge from waste water Treatment	7360 MT / annum	Stored in secured manner	Based on TDS of input water calculated.
			Sludge from wet scrubbers	36 MT / annum	Stored in secured manner	Based in neutralized masses in scrubbers.
			Date expired products	5 MT/ annum	Stored in secured manner	
			Off specificatio n drugs	36 MT / annum	Stored in secured manner	Rejected raw materials if any, which cannot be taken back, has to be sent for incineration.
			Spent catalyst	2 MT	Stored in secured manner	

	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	Total Power requirement for the project is 11950KVA. This requirement will be met from BESCOM.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Total 6 X 2250 KVA DG set will suffice the requirement of backup power supply with good quality HSD.
	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)	8 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 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 complies with the predominant windrose 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) Characterization of MEE salt may be studied and submitted.
6) The details showing that this is a permitted activity in this KIADB layout may be submitted.
7) Carbon foot print studies and its offset details to be provided for both construction and operation phase.

Accordingly TORs were issued on 11-12-2019. The proponent has submitted the EIA report on 30-04-2020. The same was placed before 243rd SEAC online meeting for EIA appraisal.

The proponent and consultant attended 243rd SEAC meeting held on 21-05-2020 for EIA appraisal.

The proponent has made out an application for this project under B1 category and TORs were issued after the due process. Now the EIA and report made has been submitted for appraisal. The following paragraph summarizes the deliberations of the committee.

This is a new project located in the approved KIADB layout. The proponent has stated that he has proposed to take up 89APIs and 56 intermediates. Further he has also stated that he will manufacture 12 products on the campaign basis depending on the demand. But however when the water balance submitted by him was appraised, it is noticed that the water flow chart drawn is for all the products and intermediates because which water requirement and liquid waste generated are much more than the actual requirement. When it was pointed out, the proponent agreed that he would rework the flow chart taking into consideration 12 products which are most water demanding.

During appraisal it is noticed that the proponent has proposed toluene as a solvent and when the committee expressed concerns about the toxicity of toluene, the proponent has agreed to go for alternatives.

During appraisal it was noticed that the proponent has proposed storage of some quantity of rain water and utilizing the balance quantity. The committee expressed concerns about recharging the industrial rain water, the proponent agreed to collect the entire quantity in the storage tank.

As far as CER is concerned the proponent has stated that he has earmarked 7.5crores and out of which he has stated that he would contribute 5crores to PM cares and 2.5crores to CM cares fund.

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) Rework the water flow chart taking into consideration 12 products which are most water demanding. Also the waste generation due to these products may be submitted.

The committee also imposed the following condition.

1) Replace solvent Toluene with the alternatives.

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

FRESH PROJECTS:-

243.2 Proposed Bulk Drugs & Intermediates Unit Project at Plot Nos.39-P & 94P of Mundrigi II State, Bellary District **by M/s. KGN INDUSTRIES (SEIAA 5 IND 2020)**

Sl. No	PARTICULARS		INFORMATION
1	Name and Address of the Project Proponent		Smt. A. Lakshmi Kumari, Plot No. 93P & 94P, Mundargi II Stage, Bellary, Karnataka
2	Name and Location of the Project		M/s. KGN Industries,Plot No. 93P & 94P, Mundargi II Stage, Bellary, Karnataka
3	Co-ordinates of the Project Site		Latitude: 15° 5'54.28"N Longitude: 76°53'55.32"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	--

<table>
<tr><td></td><td>b.</td><td>Distance from Protected area notified under wildlife protection act</td><td>--</td></tr>
<tr><td></td><td>c.</td><td>Distance from the interstate boundary</td><td>Karnataka- Andhra Pradesh interstate boundary – 6.5 Km (S)</td></tr>
<tr><td></td><td>d.</td><td>Whether located in critically / severally polluted area as per the CPCB norms</td><td>No</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>Activity 5 (f) of Category-B</td></tr>
<tr><td>6</td><td colspan="2">New/ Expansion/ Modification/ Product mix change</td><td>Modification</td></tr>
<tr><td>7</td><td colspan="2">Plot Area (Sqm)</td><td>2025 Sqmt</td></tr>
<tr><td>8</td><td colspan="2">Built Up area (Sqm)</td><td></td></tr>
<tr><td>9</td><td colspan="2">Component of developments</td><td>"Modification of bulk drugs and intermediates unit"</td></tr>
<tr><td>10</td><td colspan="2">Project cost (Rs. In crores)</td><td>Rs. 1 crore</td></tr>
<tr><td>11</td><td colspan="3">Details of Land Use (Sqm)</td></tr>
<tr><td></td><td>a.</td><td>Ground Coverage Area</td><td>853.94 sqm</td></tr>
<tr><td></td><td>b.</td><td>Kharab Land</td><td>--</td></tr>
<tr><td></td><td>c.</td><td>Internal Roads</td><td>75.4 sqm</td></tr>
<tr><td></td><td>d.</td><td>Paved area</td><td>--</td></tr>
<tr><td></td><td>e.</td><td>Parking</td><td>48.5 sqm</td></tr>
<tr><td></td><td>f.</td><td>Green belt</td><td>668.25 sqm</td></tr>
<tr><td></td><td>g.</td><td>Others Specify</td><td>Open area – 378.91 sqm</td></tr>
<tr><td></td><td>h.</td><td>Total</td><td></td></tr>
<tr><td>12</td><td colspan="2">Products and By- Products with quantity (enclose as Annexure if necessary)</td><td>Proposed product with capacity is mentioned below:
<table>
<tr><th>Sl. No.</th><th>Products</th><th>Capacity (kg/year)</th></tr>
<tr><td>1</td><td>Phenazopyridine Hydrochloride</td><td>8000</td></tr>
<tr><td>2</td><td>Docusate Sodium Powder 85:15</td><td>8000</td></tr>
<tr><td>3</td><td>Docusate Sodium</td><td>6000</td></tr>
<tr><td>4</td><td>Ambroxol Hydrochloride</td><td>8000</td></tr>
<tr><td colspan="2">Total</td><td>30,000</td></tr>
</table></td></tr>
<tr><td>13</td><td colspan="2">Raw material with quantity and their source (enclose as Annexure if</td><td>Detailed in feasibility report</td></tr>
</table>

	necessary)			
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	Existing Utilities: Briquettes/Coal Fired Boilers: 1 TPH X 1 DG set- 125 KVA X 1 Proposed Utilities: Briquettes/Coal Fired Boilers: 2 TPH X 1 DG set- 250 KVA X 1		
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	1KLD	
	d.	Waste water generation in KLD	0.8 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Will be treated in existing STP	
	II	Operational Phase		
	a.	Source of water	KIADB	
	b.	Total Requirement of Water in KLD	45 KLD	
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	35.5 KLD
			Recycled	-
			Total	35.5 KLD

	d.	Requirement of water for domestic purpose in KLD	Fresh	2.5 KLD
			Recycled	-
			Total	2. 5 KLD
	e.	Waste water generation in KLD	Industrial effluent	7 KLD
			Domestic sewage	2 KLD
			Total	9 KLD
	f.	ETP/ STP capacity	MEE of 10 KLD capacity with stripper and ATFD	
	g.	Technology employed for Treatment	MEE of 10 KLD capacity with stripper and ATFD	
	h.	Scheme of disposal of excess treated water if any	Zero liquid discharge	
21	Infrastructure for Rain water harvesting		RWH plan submitted in prefeasibility report	
22	Storm water management plan		Storm water plan submitted in prefeasibility report	
23	Air Pollution			
	a.	Sources of Air pollution	Dg set of capacity Existing - 125 KVA Proposed – 250 KVA Boiler of capacity Existing – 1 TPH Proposed - 1 TPH	
	b.	Composition of Emissions	--	
	c.	Air pollution control measures proposed and technology employed	Cyclone separator followed by suitable pack of Bag filters	
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	Organic waste (Process Residue)	14.82 Kg/Day
			Spent Carbon	0.44 Kg/Day
			Solvent Distillation Residue	12.33 Kg/Day
	b.	Quantity of Hazardous Waste generation with source and mode	Description	Quantity
			ETP Sludge	50 .00 Kg/Day

		of Disposal as per norms	Used Oils	1KL/Annum
			Detoxified Containers	100 No's / Month
			Used Lead Acid Batteries	2 No's/ Annum
			Fly ash from boiler	2250.00Kg/Day
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	--	
26	Risk Assessment and disaster management		Submitted	
27	POWER			
	a.	Total Power Requirement in the Operational Phase with source	Electricity- Source- GESCOM Existing- 120 KVA Proposed- 250 KVA	
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Existing - 125 KVA X 1 Proposed - 250 KVA X 1	
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Boiler - Briquettes / Coal 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- 10 m Internal road width- 5 m **(min)**	
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 243rd meeting held on 21st May 2020 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report and clarification/additional information provided during the meeting.

Application for this project was initially made out under B1 category and no project appraisal has been done to issue TORs. Now the proponent has requested to appraise his project under B2 category in view of the changed policy.

This is an existing unit which was started during the year 1999 i.e prior to EIA notification 2006. The proponent has stated that he is continuing to operate the unit on the strength of CFO issued during 2001 and he has reiterated that he has not violated any norms by not obtaining EC as per EIA notification 2006, since the products for which the CFO was issued, are the only products are being manufactured at present.

About the ownership of the unit the proponent has stated earlier the unit was in the name of ABC industries and now the KGN industries has taken over. The recent CFO is also in the name of the present owner KGN industries.

During appraisal the proponent has agreed to go for alternatives to toluene.

As far as CER is concerned the proponent has stated that he has earmarked 1lakh for the same and it will be contributed to PM care fund. As far as boiler fuel is concerned the proponent has stated that he will go for briquettes and coal will be used whenever there is a shortage in briquettes.

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) CFO compliance, CFO renewal copy and agreement with KSPCB authorized dealers regarding waste disposal.

The committee also imposed the following condition.

1) Toluene solvent may be replaced by alternatives.
2) For boiler fuel biomass briquettes may be used.
3) CFO compliance, CFO renewal copy and agreement with KSPCB authorized dealers regarding waste disposal

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

2:00 AM to 6:00PM
EIA PROJECT:

243.3 Proposed Change in Product mix for Bulk Drugs and active pharmaceutical Intermediates manufacturing unit at Shed No.D47 to D52, parcel land Adjacent of sheds D51 & D52, C62, C63, B92 and B93, KSSIDC Industrial Area, Doddaballapur Taluk, Bangalore Rural District Karnataka State. **by ANUGRAHA CHEMICALS (SEIAA 37 IND 2018)**

Sl.	PARTICULARS	INFORMATION

No			
1	Name & Address of the Project Proponent		Sri. Suhas V Chebbi Shed No.D47 to D52, Adjacent land of sheds D51 & D52, C62, C63, B92 and B93, KSSIDC Industrial Area, Doddaballapura, Bengaluru Rural District-561203.
2	Name & Location of the Project		Anugraha Chemicals Shed No.D47 to D52, Adjacent land of sheds D51 & D52, C62, C63, B92 and B93, KSSIDC Industrial Area, Doddaballapura, Bengaluru Rural District-561203.
3	Co-ordinates of the Project Site		Latitude: N 13^{0}14' 53.51" Longitude:E 77^{0}33' 17.44"
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Aradheshalli Kere – 2.4 KM towards SE
	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	No
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		5(f)
6	New/ Expansion/ Modification/ Product mix change		Expansion/product mix change
7	Plot Area (Sqm)		26837.6 sqft (2493.2946 m2)
8	Built Up area (Sqm)		21470.08 sqft (1994.6357 m2)
9	Component of developments		Small scale industry
10	Project cost (Rs. In crores)		Rs.3.94 crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	2493.2946 m2
	b.	Kharab Land	--
	c.	Internal Roads	--
	d.	Paved area	--

	e.	Parking	--	
	f.	Green belt	--	
	g.	Others Specify	--	
	h.	Total	2493.2946 m2	
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Manufacture of Bulk drug intermediates and active pharmaceutical & Ingredients given in DPR	
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Given in DPR	
14	Mode of transportation of Raw material and storage facility		By Road	
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		Given in DPR	
18	Details of Plant and Machinery with capacity/ Technology used		Given in DRP	
19	Details of VOC emission and control measures wherever applicable		Scrubbers are provided	
20	WATER			
	I.	Construction Phase		
	a.	Source of water		
	b.	Quantity of water for Construction in KLD	NA	
	c.	Quantity of water for Domestic Purpose in KLD	NA	
	d.	Waste water generation in KLD	NA	
	e.	Treatment facility proposed and scheme of disposal of treated water	NA	
	II	Operational Phase		
	a.	Source of water	Private Tanker Supply	
	b.	Total Requirement of Water in	Fresh	12.9

		KLD	Recycled	-
			Total	12.9
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	9.15
			Recycled	-
			Total	9.15
	d.	Requirement of water for domestic purpose in KLD	Fresh	3.75
			Recycled	--
			Total	3.75
	e.	Waste water generation in KLD	İndustrial effluent	5
			Domestic sewage	3.75
			Total	8.75
	f.	ETP/ STP capacity	NA	
	g.	Technology employed for Treatment	Effluent disposed to CETP Sewage to be disposed by mobile STP/chemical toilet	
	h.	Scheme of disposal of excess treated water if any	NA	
21	Infrastructure for Rain water harvesting		Rainwater harvesting is done	
22	Storm water management plan		Surface runoff is sent to external storm water drain	
23	Air Pollution			
	a.	Sources of Air pollution	DG set, Reactors, Boilers, Driers	
	b.	Composition of Emissions	So2, P.M, Acid fumes	
	c.	Air pollution control measures proposed and technology employed	Sufficient height of chimney scrubber, acoustic enclosures	
24	Noise Pollution			
	a.	Sources of Noise pollution	D.G set	
	b.	Expected levels of Noise pollution in dB	<85 dB	
	c.	Noise pollution control measures proposed	Acoustic enclosures	
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	Given in DPR
			Non- Biodegradable	

	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Given in DPR
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	NA
26	Risk Assessment and disaster management		
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	The required power is 250 KVA and source is BESCOM
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 No - 320 KVA capacity of D.G set
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	15 liter/Hr for 320 KVA D.G set
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	NA
28	PARKING		
	a.	Parking Requirement as per norms	NA
	b.	Internal Road width (RoW)	NA
29		Any other information specific to the project (Specify)	NA

The Proponent and Environment Consultant attended the 203rd meeting held on 27th & 28th July 2018 to provide clarification/additional information.

M/s. Anugraha Chemicals is an existing industry and engaged in manufacture of bulk drugs and Active Pharmaceuticals Ingredients & intermediates. The present proposal is for expansion. The project falls under schedule 5(f), synthetic Organic chemicals under category B.

The committee after discussion 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) Present the compliance to earlier conditions given by KSPCB-CFO/EC.
2) Justification for the No. of products and No. of reactors provided.
3) 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.

4) Raw material to product and product to waste generation ratio for each product to be given
5) Water analysis to be done for all the parameters for all the nearby borewells within 2 km radius
6) Details of adjacent industries and impact on the same from this industry
7) Existing greenbelt details and proposed with design to be provided
8) Scheme for storage and disposal of hazardous waste as per the hazardous waste handling and disposal rule to be provided
9) Safety measures taken in the hydrogenation process to be explained in EIA and explore the possibility of using alternative catalysts for hydrogenation process
10) In the monitoring protocols of the ambient air, VOC to be incorporated
11) 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
12) List of banned chemicals to be provided and alternative chemicals to replace the banned chemicals
13) Recent baseline data generated by the KSPCB/CPCB if any and this shall be compared with the previous baseline data generated by the industry.
14) 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
15) Provide the solvents storage plan with quantity as per standard norms highlighting any special precautions adopted for storage.
16) Identify and evaluate the steps in the manufacturing of your products that may represent risks to personal or equipment and conduct a detailed investigation and present the hazop study along with risk assessment, disaster management of worst case scenario, all control equipments and mitigation measures adopted, emergency preparedness and onsite emergency plan.
17) 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.
18) Compatibility of the different waste generated, including their segregation and storage.
19) The scheme for alternative to septic tank and soak pit.

Accordingly TORs were issued on 10-09-2018. The proponent has submitted the EIA report on 06-05-2020. The same was placed before 243rd SEAC online meeting for EIA appraisal.

The proponent and consultant attended 243rd SEAC meeting held on 21-05-2020 for EIA appraisal.

This is a proposal involving expansion of the existing project. Earlier the project was covered in 6 sheds allotted by KSSIDC and now 4 additional sheds being added, totaling to 10 sheds. Total land area was 20000sqft for the existing unit and an additional area of 6837sqft covering additional sheds being added. The project being located in the notified KSSIDC layout, EC for the existing unit was obtained during the year 2013 and now this proposal is for expansion involving additional products and variation in quantity. The EC compliance for the existing unit has been certified by Regional Office MoEF&CC during the year 2018.

Out of 10 sheds 6 were allotted to the proponent earlier and now additional 4 sheds are being taken over on rental basis, for which long term MOU has been entered into.

The application for this expansion project was made out during 2018 under B1 category and TORs for the same were issued after due process. The proponent has submitted EIA report based on the studies made as per the TORs. This EIA report as been appraised and following points were observed.

1) The proponent proposed to cart out effluents to CETP and for handling of domestic sewage he has proposed septic tank. The committee expressed concerns about this, for which the proponent readily agreed to put up ZLD system and agreed to revise the EMP accordingly.
2) As per the study conducted in the study area about the flora and fauna he has mechanically listed species like Cheetah, Yak etc for which the proponent has agreed to rectify the list.
3) As far as boiler fuel is concerned the proponent has proposed wood fuel which is not acceptable by the committee, for which the proponent has agreed to go for biomass briquettes.
4) As far as compensating the greenery the proponent has agreed to take up avenue plantation within the industrial layout and also in the public roads outside the industrial layout.

As far as CER is concerned the proponent has earmarked Rs 27lakhs and contributing the same to PM care fund.

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) Revise the list of flora and fauna found in the study area and submitted.
3) Agreements with KSPCB authorized dealers for waste disposal should be provided.

The committee also imposed the following condition.

1) For boiler fuel biomass briquettes may be used

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

FRESH PROJECTS:

243.4 Proposed Bulk Drugs & Drug Intermediates Unit Project at Plot Nos.106(B) & 107, Sy.No.215 of Humnabad Industrial Area, Gadwanti Village, Humnabad Taluk, Bidar District **M/s. Kshatriya Laboratories Pvt. Ltd. (SEIAA 10 IND 2020)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Kshatriya Laboratories Private Limited Mr. M. Nagarjun Reddy Director Reg. Address: Plot No.: B-4, IDA, Gandhi Nagar, Medchal-Malkajgiri (District), Hyderabad, Rangareddy, Telangana – 500 037
2	Name & Location of the Project		Kshatriya Laboratories Private Limited Plot Nos.: 106 (B) & 107, Sy. No.: 215, Humnabad Industrial Area, Gadwanti (V), Humnabad (T), Bidar (D), Karnataka State – 585 330
3	Co-ordinates of the Project Site		Latitude: 17° 45' 47.02" N Longitude: 77° 5' 27.53" E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Chandri Halla – 1.66 Km (NNE) Water body near Dhumnasur – 5.78 Km (NNE) Hallikhed Lake – 7.91 Km (SSW) Kattalli Lake – 5.13 Km (SSE) Water body near Kankatta – 8.24 Km (N)
	b.	Distance from Protected area notified under wildlife protection act	None within 10 km radius

Sl. No	PARTICULARS		INFORMATION
	c.	Distance from the interstate boundary	None within 10 km radius
	d.	whether located in critically / severally polluted area as per the CPCB norms	None within 10 km radius
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		5 (f)
6	New/ Expansion/ Modification/ Product mix change		Proposed for expansion of existing Bulk drugs & Drug Intermediates manufacturing unit
7	Plot Area (Sq. m)		12218.28
8	Built Up area (Sq. m)		3642.58
9	Component of developments		Construction of MEE, Production Block, Ware House, additional Greenbelt development and others
10	Project cost (Rs. in Crores)		26.90 Crores for proposed project
11	Details of Land Use		
	a.	Ground Coverage Area	3642.58 Sq. m
	b.	Kharab Land	---
	c.	Internal Roads	3995.75 Sq. m
	d.	Paved area	--
	e.	Parking	60 Sq. m
	f.	Green belt	4286.45 Sq. m
	g.	Open area	233.50 Sq. m
	h.	Total	12218.28 Sq. m
12	Products and By- Products with quantity (enclose as Annexure if necessary)		List of Proposed Products and By- Products (Annexure - I)
13	Raw material with quantity and their source (enclose as Annexure if necessary)		List of the raw materials product wise (Annexure-II)
14	Mode of transportation of Raw material and storage facility		The chemicals required for the process are bought from the local (indigenous) markets. Mode of transportation of all raw materials to the project site is by road.
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		Not Applicable

Sl. No	PARTICULARS		INFORMATION	
16	Fly ash production, storage and disposal details whereas coal is used as fuel		Project generating - 8.2 TPD of Fly ash from existing 3.0 TPH & proposed 4.0 TPH Coal Fired Boilers & 263 Kg/Day ash from proposed Thermic Fluid heater and the same will be sent to Brick Manufacturers.	
17	Complete process flow diagram and technology employed		Process Flow diagram (Annexure-III)	
18	Details of Plant and Machinery with capacity/ Technology used		Details of Equipment/ Machinery of existing and proposed are enclosed in Annexure - IV.	
19	Details of VOC emission and control measures wherever applicable		All tanks/ vents being used for storage flammable chemicals will be connected to .respective condensers to avoid VOCs in the plant area. All necessary measures will be adapted to control VOC emissions.	
20	WATER			
	I.	Construction Phase:		
	a.	Source of water	KIADB water supply	
	b.	Quantity of water for Construction in KLD	Approximately 2.0 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	Approximately 1 KLD for Construction labour	
	d.	Waste water generation in KLD	Approximately 0.5 KLD of Domestic Effluents will be generated	
	e.	Treatment facility proposed and scheme of disposal of treated water	Generated domestic effluent will be sent to septic tank followed by Soak Pit.	
	II	Operational Phase		
	a.	Source of water	KIADB water supply	
	b.	Total Requirement of Water in KLD	Fresh	142.46
			Recycled	27.32
			Total	169.78
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	137.46
			Recycled	27.32
			Total	164.78
	d.	Requirement of water for domestic purpose in KLD	Fresh	5.00
			Recycled	--
			Total	5.00
	e.	Waste water generation in KLD	Industrial effluent	28.59
			Domestic sewage	4.00

Sl. No	PARTICULARS		INFORMATION	
			Total	32.59
	f.	ETP/ STP capacity	MEE System Capacity: 25 KLD ETP/ RO System Capacity: 40 KLD	
	g.	Technology employed for Treatment	ZLD System	
	h.	Scheme of disposal of excess treated water if any	Treated water will be reused in Cooling Towers & Boilers.	
21	Infrastructure for Rain water harvesting		The rain water from the Roof top will be collected through PVC pipes and transferred to the proposed rain water harvesting pits to recharge the groundwater.	
22	Storm water management plan		Separate drains will be provided ensuring to collect the storm water without contamination and storm water will be routed to Rain water harvesting tank followed by Pit. Details will be provided in EIA Report	
23	Air Pollution			
	a.	Sources of Air pollution	Process Emissions, Emissions from Boilers & DG Sets, Fugitive Emissions.	
	b.	Composition of Emissions	Boiler Emissions: Particulate Matter, SO_2 & NO_x Process Emissions: CO_2, H_2, O_2, HBr, HI & HCl are liberated from the process	
	c.	Air pollution control measures proposed and technology employed	Utilities Emissions Boilers: Cyclone separators and bag filters with suitable stack heights of 30 m will be installed for controlling the Particulate emissions. Process Emissions HCl, HBr and HI emissions from the reactor will be connected to multi stage scrubbers with suitable scrubbing liquid to scrub the gases effectively with water / caustic lye based on the nature of the gas. H_2 will be diffused by using Nitrogen through flame arrestor. CO_2 and O_2 will be dispersed into the atmosphere. Scrubbing liquid will be sent to ZLD system. Fugitive Emissions Solvents are handled in closed conditions and closed operations thereby reducing the losses in the form of evaporation. The industry will take measures for reduction of fugitive emissions by providing Chilled brine / water / cooling water circulation to condensate the solvent vapour from the reactor, receiver and Tank	

Sl. No	PARTICULARS		INFORMATION	
			vents which ensures the maximum recovery. Good ventilation will be provided to reduce the workroom concentrations.	
24	Noise Pollution			
	a.	Sources of Noise pollution	The main sources of noise pollution are from Boilers, Reactors, DG Sets, Air compressors, and other Noise generating units. Vehicular movements during operation phase for loading / unloading of raw materials and finished products and transporting activity may also increase noise level.	
	b.	Expected levels of Noise pollution in dB	The noise levels within the plant premises will be maintained less than 75 - 70 dB [A] [during day time and night time]. Details will be provided in EIA Report.	
	c.	Noise pollution control measures proposed	• DG sets will be installed with inbuilt acoustic enclosures. • DG sets will be functioning only at the time of power failure. • Workers in this area will always be provided with ear muffs or ear plugs. • Extensive oiling, lubrication and preventive maintenance will be carried out for the machineries and equipments to reduce noise generation. • Greenbelt Development.	
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	0.45 TPD (Domestic waste)
			Non- Biodegradable	8.2 TPD (Ash from boilers)
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Hazardous & Solid waste Generation Details (Annexure-V)	
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	Quantity : 0.5 TPA Source: Electronic and Electrical Items used in industry. Mode of disposal: Will be sent to KSPCB Authorized agencies.	
26	Risk Assessment and disaster management		Details will be provided in EIA Report.	
27	POWER			

Sl. No	PARTICULARS		INFORMATION
	a.	Total Power Requirement in the Operational Phase with source	990 KVA Source: Karnataka Power Corporation Limited (KPCL).
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Existing: 1 No. Capacity: 225 KVA (Dropping) Proposed: 2 Nos. Capacity: 380 KVA & 500 KVA
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Coal: 23.5 TPD for Coal fired boilers Coal: 750 Kg/ Day for TFH Diesel: 375 LPD for DG Sets
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Proposed to provide solar lights in all internal roads.
28	PARKING		
	a.	Parking Requirement as per norms	--
	b.	Internal Road width (RoW)	4, 5 & 6 meters
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 243rd meeting held on 21st May 2020 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report and clarification/additional information provided during the meeting.

Application for this project was initially made out under B1 category and no project appraisal as been done to issue TORs. Now the proponent has requested to appraise his project under B2 category in view of the changed policy.

The committee discussed that it is a proposal involving expansion of the existing unit. The EC for the existing unit is issued in the year 2013. As far as compliance to the EC, the

proponent has stated that he is regularly filing for every 6 months from 2013. But no certified compliance has been received from the Regional Office MoEF&CC.

The proponent has also stated that he has made out an application in Feb-2020 to Regional Office MoEF&CC requesting them to issue certified compliance, because of the lockdown due to COVID-19 officials couldn't make site visit and issue certified compliance.

As far as baseline data is concerned the proponent has stated that he is collecting half yearly baseline data for EC compliance as well as CFO compliance. Committee taking this into consideration suggested to carry out trend analysis of the baseline data right from 2013 to 2020, for which the proponent has readily agreed.

As far as water demand and waste generation is concerned the proponent has stated that he has taken all the proposed products to arrive at water requirement and waste generation, but whereas during presentation the proponent has stated that he will take up manufacturing of maximum 8 products out of 14 products proposed on the campaign basis and he readily agreed to work out the water demand for the maximum of 8 products and also the waste generation there on due to this products.

During appraisal it is noticed that toxic solvents such as toluene is proposed. But when the committee expressed concerns about the toxicity of toluene, the proponent has agreed to go for the alternatives to toluene which are not toxic.

During appraisal it is noticed that the boiler fuel proposed is coal, when the committee expressed concerns about handling coal ash and other gases that will come up in the coal burning, the proponent has agreed to go for biomass briquettes.

As far as CER is concerned the proponent has earmarked Rs 27lakhs and contributing the same to PM care fund.

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) Certified compliance to earlier EC conditions to be submitted.
2) Carry out trend analysis of the baseline data right from 2013 to 2020 and submitted.
3) Rework the water flow chart taking into consideration 8 products which are most water guzzling also the waste generation there on due to this products may be submitted.

The committee also imposed the following condition.

1) Replace solvent Toluene with the alternatives which are non toxic.

2) For boiler fuel biomass briquettes may be used.

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

243.5 Proposed Expansion of Active Pharmaceutical Ingredients & Intermediates and Manufacturing Unit at Plot No. 123, 124, 125 & 142, Kolhar KIADB Industrial Area Kolhar & Nizampur Bidar Karnataka by **WOHLER LABORATORIES PVT LTD (SEIAA 16 IND 2020)**

The Proponent and Environment Consultant attended the 243rd meeting held on 21st May 2020 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report and clarification/additional information provided during the meeting.

This is a proposal listed under violation category during the year 2018 bearing no SEIAA 3 IND (VIOL) 2018. The proponent has stated that he has carried out all the studies except the public hearing because of the COVID-19 crisis. Taking into consideration of the recent letter regarding appraisal of the violation projects issued by MoEF&CC on 15-05-2020, the committee after discussion and deliberation decided not to proceed with the appraisal and decided to recommend the proposal for closure of the proposal.

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

22nd May 2020
10:00 AM to 2:00PM
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
Smt Saswati Misra	-	Secretary

EIA PROJECT:

243.6 Proposed expansion project in manufacturing of Active Pharmaceutical Ingredient (API) and intermediate products at plot no. 17f, Bidadi Industrial area, 2nd phase, sector-1, Bidadi, Ramanagar Taluk, Karnataka **By M/s EUROFINS ADVINUS BIOPHARMA SERVICES INDIA Pvt. Ltd. (SEIAA 14 IND 2019)-GOMATI LIFE SCIENCES PVT LTD**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Mr. Mahendra Kumar Sharma Managing Director, M/s. Gomti Lifes ciences India Pvt. Ltd. #53, 8TH Cross, J.M. Rao Circle, A.D Halli, Magadi Road, Bangalore-560079
2	Name & Location of the Project		M/s. Gomti Life sciences India Pvt. Ltd. Plot No. 17F, Bidadi Industrial Area, 2nd Phase, Sector – 1, BidadiHobli, Ramanagar District - 562109, Bangalore. Karnataka
3	Co-ordinates of the Project Site		The latitude and longitude of the project site are between 12°48'44"N and 77°25'27 "E respectively
4	Environmental Sensitivity		
	a.	Distance fromNearest 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 no. 5(f) of the schedule i.e., Synthetic organic chemicals industry and category "B"

	serial number		project.
6	New/ Expansion/ Modification/ Product mix change		Expansion
7	Plot Area (Sqm)		8,895.73Sqm
8	Built Up area (Sqm)		6,549.8 Sqm
9	Component of developments		Manufacturing of synthetic aromatic chemicals activity
10	Project cost (Rs. In crores)		For expansion Proposal Rs. 5crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	6,549.8 Sqm
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan drawing
	d.	Paved area	-
	e.	Parking	Provided inside factory premises
	f.	Green belt	511.14 Sqm
	g.	Others Specify	-
	h.	Total	8,895.73Sqm
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Proposed 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
14	Mode of transportation of Raw material and storage facility		Detailed in PFR report in chapter 3
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, chapter 3

20	WATER			
	I.	Construction Phase		
	a.	Source of water	Water requirement is met from Borewell	
	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 Borewell water	
	b.	Total Requirement of Water in KLD	Fresh	43 KLD
			Recycled	
			Total	43KLD
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	43KLD
			Recycled	
			Total	32KLD
	d.	Requirement of water for domestic purpose in KLD	Fresh	8 KLD
			Recycled	-
			Total	7.2 KLD
	e.	Waste water generation in KLD	Industrial effluent	17.8
			Domestic sewage	7.2
			Total	25
	f.	ETP/ STP capacity	Installed Effluent cum Sewage treatment Plant, to treat Effluent and Sewage generated from the facility. The Effluent treatment plant is designed to treat daily Effluent quantity of 60 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	
	b.	Composition of Emissions	SO_2, NOx, Particulate Matters	
	c.	Air pollution control measures proposed and technology employed	Detailed in PFR chapter 3	

<table>
<tr><td>24</td><td colspan="2">Noise Pollution</td><td colspan="3"></td></tr>
<tr><td rowspan="3"></td><td>a.</td><td>Sources of Noise pollution</td><td colspan="3">Detailed in PFR, chapter 3</td></tr>
<tr><td>b.</td><td>Expected levels of Noise pollution in dB</td><td colspan="3">Within the limits KSPCB prescribed for industrial area.</td></tr>
<tr><td>c.</td><td>Noise pollution control measures proposed</td><td colspan="3">Detailed in PFR, chapter 3</td></tr>
<tr><td>25</td><td colspan="5">WASTE MANAGEMENT</td></tr>
<tr><td rowspan="4"></td><td>I.</td><td colspan="4">Operational Phase</td></tr>
<tr><td rowspan="2">a.</td><td rowspan="2">Quantity of Solid waste generated per day and their disposal</td><td>Biodegradable</td><td rowspan="2">The total quantity of domestic wastes generated is about 31.25 kg/day which will be segregated at source, collected in bins and composted. The composted waste will be used as manure for landscape development</td></tr>
<tr><td>Non- Biodegradable</td></tr>
<tr><td>b.</td><td>Quantity of Hazardous Waste generation with source and mode of Disposal as per norms</td><td colspan="2">Detailed in PFR, chapter 3</td></tr>
<tr><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="3">-</td></tr>
<tr><td>27</td><td colspan="5">POWER</td></tr>
<tr><td rowspan="3"></td><td>a.</td><td>Total Power Requirement in the Operational Phase with source</td><td colspan="3">Source: BESCOM.
Connected Load: 1250 KVA</td></tr>
<tr><td>b.</td><td>Numbers of DG set and capacity in KVA for Standby Power Supply</td><td colspan="3">3 DG sets of 620 KVA, 320 KVA and 180 KVA</td></tr>
<tr><td>c.</td><td>Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,</td><td colspan="3"><table><tr><td>Sources</td><td>Capacity</td><td>fuel</td></tr><tr><td>DG sets</td><td>3 DG sets of 620 KVA, 320 KVA and 180 KVA</td><td>HSD</td></tr><tr><td>Boiler</td><td>Steam Boiler 600kg/hr capacity -4nos</td><td>HSD</td></tr><tr><td>Thermic Fluid Heater -1no</td><td></td><td>HSD</td></tr></table></td></tr>
</table>

			Hot Water Generator		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	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 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 noted that an EC was issued for this project during the year 2010. But establishment of unit was completed in 2012. The proponent stated that immediately after the establishment due to financial problems and other issues the unit was closed. He has also stated that now all those issues have been resolved and this application is made out to the products not covered under earlier EC and only R & D activities were being carried out till today.

Hence, 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 conditions given by KSPCB-CFO/EC
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.
18. Scheme for harvesting renewable energy at the site and roof top may be detailed.
19. Details of the locals who are employed within the radius of 50 KM.
20. Details of indoor air quality monitoring device location and baseline data.

Accordingly TORs were issued on 15-07-2019. The proponent has submitted the EIA report on 24-03-2020. The same was placed before 243rd SEAC online meeting for EIA appraisal.

The proponent and consultant attended 243rd SEAC meeting held on 22-05-2020 for EIA appraisal.

This is a proposal for expansion of the existing unit. Earlier on EC was issued for the existing project during the year 2010. In the meantime the management has been changed from M/s Gomati Life Science Pvt Ltd to M/s Eurofins Advinus Biopharma Services India Pvt Ltd. The EC and CFO issued for the existing project have also been got modified in the name of the present owner.

The proponent has made out application under B1 category for alterations in the products and the TORs have been issued after due process. Now the proponent has come up with the EIA report and the appraisal was done based on this report.

During the appraisal it is noticed that the quantity of products manufactured is getting reduced to 74TPA from the earlier mandated quantity of 117TPA. Now the proponent has proposed 34APIs and 21intermediates which are not covered under earlier EC. The proponent has also stated that he is going to manufacture 3 products at any given time based on the demand. By this the proponent has stated that the pollution load gets drastically reduced along with the water requirement and waste production. During appraisal proponent has stated that he will construct 20cum capacity of rain water storage tank from roof top storage and 50cum capacity for surface water storage. But looking into the realistic rainfall the committee felt that the storage capacity from roof rain water is to be increased to 75cum and surface rainwater storage to 150cum, for which the proponent has readily agreed.

As far as the salt generated out of MEE, the proponent has stated that he will get it analyzed within three months after the MEE is restarted with these products to ascertain the toxicity.

The committee has observed that the Bromimization has also been proposed, for which the proponent has stated that the Bromine product will be outsourced from other agencies and he will go for alternatives to bromine products shortly.

As far as land use and land cover map the proponent has used 2016 data and during appraisal he has readily agreed to submit the same based on the recent data.

As far as CER is concerned the proponent has earmarked Rs 12.5lakhs and contributing the same to PM care fund.

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) Certified compliance to earlier EC conditions to be submitted.

2) Rework the water flow chart taking into consideration 3 products which are most water demanding also the waste generation there on due to this products may be submitted.
3) Revised land use and land cover analysis of study area based on the recent data may be prepared and submitted.
4) Copy of the CFO renewal, CFO compliance and agreements with the KSPCB authorized dealers with respect to hazardous waste disposal should be submitted.

The committee also imposed the following condition.

1) Replace solvent Toluene and bromine product with the alternatives

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

FRESH PROJECTS:-

243.7 Proposed Expansion of Bulk drug and Intermediate Manufacturing Unit at 122-A/B/C, KIADB Industrial area, Humnabad Bidar District Karnataka 585330 by **R CHEM (SOMANAHALLI) PVT LTD (SEIAA 17 IND 2020)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		**Mr. B.V Srinivasa Rao - DGM – Operations** **M/s. R Chem (Somanahalli) Pvt Ltd** Plot No. 122 -A, B, C, KIADB industrial area, Humnabad Taluk, Bidar District, Karnataka - 585330
2	Name & Location of the Project		**M/s. R Chem (Somanahalli) Pvt Ltd** Expansion of Bulk drugs and Intermediates Manufacturing Unit located at Plot No. 122-A, 122-B, 122-C, KIADB Industrial area, Taluka: Humnabad, District: Bidar, Karnataka
3	Co-ordinates of the Project Site		Project site Co-ordinates 17° 45'52.5" N 77° 05' 40.4" E
4	Environmental Sensitivity		
	a.	Distance from Nearest Lake/ River/ Nala	• Mullahmari river 13 km (WSW) • Doddahalla 10.18 Km (E) • Chandrihalla 1.2 Km N

	b.	Distance from Protected area notified under wildlife protection act	None within 10 KM Radius
	c.	Distance from the interstate boundary	-
	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)		Exiting 8091+ additional 8476 = 16567 Sq. meter
8	Built Up area (Sqm)		5161sqm
9	Component of developments		Facility for manufacture of Bulk Drugs and intermediates
10	Project cost (Rs. In crores)		Existing 26.27Crores Proposed cost Rs. 23.60 Crores Total: Rs. 49.87 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	5161
	b.	Kharab Land	-
	c.	Internal Roads	Shown in layout plan
	d.	Paved area	-
	e.	Parking	3601
	f.	Green belt	5467
	g.	Open land	2338
	h.	Others Specify	-
	i.	Total	**16567**
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Detailed in Annexure- I
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Raw materials with quantity and their source is detailed in PFR annexure

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		**N/A**	
16	Fly ash production, storage and disposal details whereas coal is used as fuel		Quantity of Fly ash generated: 657 TPA Collection, Storage, transportation and disposal to brick manufacturers/ cement industries	
17	Complete process flow diagram and technology employed		Detailed in PFR Annexure 10	
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 EMP	
20	WATER			
	I.	Construction Phase		
	a.	Source of water	Tankers	
	b.	Quantity of water for Construction in KLD	2	
	c.	Quantity of water for Domestic Purpose in KLD	0.5	
	d.	Wastewater generation in KLD	0.4	
	e.	Treatment facility proposed and scheme of disposal of treated water	Existing onsite STP for domestic waste	
	II	Operational Phase		
	a.	Source of water	Open wells, Bore wells and Tankers	
	b.	Total Requirement of Water in KLD	Fresh	92.28
			Recycled	126.8
			Total	219.08
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	86.28
			Recycled	126.80
			Total	199.08
	d.	Requirement of water for domestic purpose in KLD	Fresh	6
			Recycled	0
			Total	6
	e.	Wastewater generation in KLD	Industrial effluent	65.1

			Domestic sewage	5.1
			Total	70.2
	f.	ETP/ STP capacity	ETP: 70 KLD, STRIPPER, MEE 30 KLD + 50 KLD, ERO -70 KLD STP: 10 KLD	
	g.	Technology employed for Treatment	Detailed in PFR (Zero Liquid Discharge)	
	h.	Scheme of disposal of excess treated water if any	Not applicable	
21	Infrastructure for Rainwater harvesting		Roof water collected, stored and reused in cooling tower	
22	Storm water management plan		Storm water drains provided and collected for use	
23	Air Pollution		-	
	a.	Sources of Air pollution& Control measures	Process reactors Wet scrubber • Production block 1&2- 1 Scrubber **Proposed:** • Production block 3 – 1 scrubber • Production block 4 - 1 Scrubber Are provided to treat process emissions from production blocks. New 2 numbers proposed to treat the proposed additional products. **Utility section** Boilers - 3 TPH and 2 TPH connected to stack height of 30 m, 2 TPH will be replaced with 4TPH boiler to meet ZLD requirements DG sets of 320 KVA x 1 Nos. and 600 KVA x 1 Nos. is installed. Additional 750 KVA DG set proposed as power backup while phasing out 320 KVA DG SET.	
	b.	Composition of Emissions	PM, SO_2, NOx	
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. setsare used only during the emergency of power failure to run essential services. Acoustic enclosures are provided to DG sets.	
25	WASTE MANAGEMENT			

<table>
<tr><td></td><td>I.</td><td colspan="3">Operational Phase</td></tr>
<tr><td></td><td rowspan="2">a.</td><td rowspan="2">Quantity of Solid waste generated per day and their disposal</td><td>Biodegradable</td><td rowspan="2">Solid Waste: Office waste like paper etc. is expected.
Plastic drums and bags will be sold to KSPCB authorized recycler.</td></tr>
<tr><td>Non-Biodegradable</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">Mode of disposal of hazardous waste is detailed in PFR.
<table>
<tr><th>Sl. No</th><th>Type of Waste</th><th>Total (TPA)</th><th>Mode of Disposal</th></tr>
<tr><td>1</td><td>Aq. Dimethyl sulphoxide (50%)</td><td>297.72</td><td rowspan="17">By product sale to end user</td></tr>
<tr><td>2</td><td>sodium Methyl thionate solution (20%)</td><td>3017.04</td></tr>
<tr><td>3</td><td>Sodium sulphate</td><td>457.59</td></tr>
<tr><td>4</td><td>Methane sulphonic acid</td><td>252</td></tr>
<tr><td>5</td><td>Ammonium chloride</td><td>916.32</td></tr>
<tr><td>6</td><td>Potassium sulphate</td><td>230.04</td></tr>
<tr><td>7</td><td>Sodium chloride</td><td>492.50</td></tr>
<tr><td>8</td><td>Sodium Nitrate</td><td>120.84</td></tr>
<tr><td>9</td><td>Sodium Acetate</td><td>102.17</td></tr>
<tr><td>10</td><td>Ammonium Sulphates/ Sulphides</td><td>318.48</td></tr>
<tr><td>11</td><td>Calcium Chloride</td><td>7.2</td></tr>
<tr><td>12</td><td>Potassium Chloride</td><td>135.24</td></tr>
<tr><td>13</td><td>Magnesium Chloride</td><td>53.64</td></tr>
<tr><td>14</td><td>Sodium Bromide</td><td>135</td></tr>
<tr><td>15</td><td>Potassium Bromide</td><td>91.92</td></tr>
<tr><td>16</td><td>Hydrogen Bromide</td><td>34.66</td></tr>
<tr><td>17</td><td>Chromium sulphate</td><td>137.20</td></tr>
<tr><td>17</td><td>Spent Iron powder</td><td>90</td></tr>
<tr><td>18</td><td>Spent Carbon, Hyflow&Charcoal</td><td>50.66</td><td>Collection, Storage, transportation and incineration at Cement plants</td></tr>
<tr><td>19</td><td>Catalyst -Spent raney nickel</td><td>28.2</td><td>Collection, Storage, returned to supplier for reprocess</td></tr>
<tr><td>20</td><td>Organic Residue (solvent distillation)</td><td>1119.7</td><td>Collection, Storage, transportation and incineration at Cement plants</td></tr>
<tr><td>21</td><td>Spent Solvent</td><td>223.51</td><td>Collection, Storage, transportation to reprocesses at KSPCB approved re-processor</td></tr>
</table></td></tr>
</table>

			22	Chemical containing Sludge from cleaning of Storage Tank	6	Collection, Storage, transportation and incineration at TSDF
			23	Used Oil	0.3	Collection, storage and disposal to recycler
			24	ETP Sludge	3	Disposal to TSDF/ Incinerator/ co-processing at cement plants
			25	Empty Drums of Chemical containing Traces	2000	Collection, Storage, transportation and disposal to KSPCB approved agencies
			26	Battery	50	Collection, Storage, returned to supplier
			27	MEE Salt –inorganic	1886.69	Collection, Storage, transportation to TSDF
			28	MEE Salt-organic	467.69	Collection, Storage, transportation to TSDF/ incineration at Cement plants
			29	Fly ash/coal ash	657	Collection, Storage, transportation and disposal to brick manufacturers/ cement industries
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	-			
26	Risk Assessment and disaster management		Risk assessment will be carried out during operation of the plant.			
27	POWER					
	a.	Total Power Requirement in the Operational Phase with source	750 KVA for manufacturing facility at present, 750 KVA additional power requirement for operation of new facility. Total power requirement after expansion = 1500 KVA. (Sourced from GESCOM.)			
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	DG sets of 600 KVA x 1 Nos. and 320 KVA x 1Nos. is presently in use. Additional 750 KVA DG set proposed as power backup. Existing 320 kVA will be discontinued.			
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc.,	HSD during power failure: 110 litres per hour (Existing 75-25 + Proposed 60) Coal/ Briquette= Existing 7/ 8TPD and total coal/briquette requirement after expansion is 10 TPD			

	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy saving bulb, fittings, pumps are procured for the project.
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)	This project is dire need for supply of drugs to patients, including COIVD-19 drugs

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 243rd meeting held on 22nd May 2020 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report and clarification/additional information provided during the meeting. The following paragraphs summarizes the deliberation of the committee.

This is a proposal involving expansion of the existing unit, the EC for the existing unit was issued during the year 2017 and as far as certified compliance to EC is concerned the proponent has stated that he is regularly filing half yearly returns to Regional Office MoEF&CC and they couldn't visit the site because of the COVID-19 crisis and hence the compliance is yet to be got certified.

The committee expressed concerns about the rainwater harvested is being let into the open well and for which the proponent readily agreed to build another structure to store the rainwater separately and he has agreed to quantify the actual yield and run-off based on the rainfall data.

During appraisal following lacunas were noticed

1) Solvent recovery analysis data for all the solvents have not been furnished.
2) Material balances for all the products have not been furnished.
3) Risk assessment has not been done and furnished.
4) Characterization of the material based on the toxicity has not been done.
5) Alternatives to Raney nickel have not been furnished.
6) Trend analysis of the baseline data collected during the compliance to the EC is not been furnished.
7) Details of species wise and number wise existing and proposed trees were not found.

8) Details of species wise and number wise plant species to develop 10 to 15meter wide 3 tier greenbelt all along the boundary along with design is not furnished.

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

1) Solvent recovery analysis data for all the solvents may be carried out and submitted.
2) Material balances for all the products may be submitted.
3) Risk assessment study may be carried out and submitted.
4) Characterization of the raw material based on the toxicity may be submitted
5) Trend analysis of the baseline data collected during the compliance to the EC and recent baseline data may be submitted.
6) Details of species wise and number wise existing and proposed trees may be submitted.
7) Details of species wise and number wise plant species to develop 10 to 15meter wide 3 tier greenbelt all along the boundary along with design may be submitted.

Action: Secretary, SEAC to put up the proposal before SEAC in Subsequent meeting after receipt of the information.

243.8 Proposed Bulk Drugs & Intermediates, Active Pharmaceutical Ingredients Manufacturing Unit at Plot no. 99P, Humnabad Industrial Area, Gadavanthi Village, Humnabad Taluk Bidar District Karnataka 585330 by **M/S. K.S.T PHARMACEUTICALS (SEIAA 18 IND 2020)**

Sl. No	PARTICULARS	INFORMATION
1	Name and Address of the Project Proponent	**M/s. K.S.T Pharmaceuticals** Plot.No.99P Humnabad Industrial area, Bidar District. -585330, Karnataka
2	Name and Location of the Project	**M/s. K.S.T Pharmaceuticals** Plot No: 99, Humnabad Industrial Area, Gadavanthi Village,Humnabad Taluk, Bidar - 585330, Karnataka State.
3	Co-ordinates of the Project Site	**Latitude**: 17°46'01" N **Longitude**: 77°05'32" E

<table>
<tr><td>4</td><td colspan="3">Environmental Sensitivity</td><td></td></tr>
<tr><td rowspan="4"></td><td>a.</td><td>Distance From nearest Lake/ River/ Nala</td><td>
<table>
<tr><th>S. No</th><th>Name</th><th>Distance (~Km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Chandri/ Dodda Halla</td><td>1.46</td><td>N</td></tr>
<tr><td>2</td><td>Mullahmari R</td><td>10.12</td><td>SSW</td></tr>
<tr><td>3</td><td>Mullahmari Reservoir</td><td>9.08</td><td>SW</td></tr>
<tr><td>4</td><td>Mullahmari Left Bank Canal</td><td>9.30</td><td>S</td></tr>
<tr><td>5</td><td>Mullahmari Right Bank Canal</td><td>10.88</td><td>SSW</td></tr>
<tr><td>6</td><td>Mullahmari River</td><td>12.21</td><td>WSW</td></tr>
</table>
</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>--</td></tr>
<tr><td>d.</td><td>Whether located in critically / severally polluted area as per the CPCB norms</td><td>No</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>'B2'</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>12006 Sqmt</td></tr>
<tr><td>8</td><td colspan="2">Built Up area (Sqm)</td><td></td></tr>
<tr><td>9</td><td colspan="2">Component of developments</td><td>"Proposed Bulk Drugs & Intermediates, Active Pharmaceutical Ingredients Manufacturing Unit"

For proposed project, new buildings plant and machineries will be constructed.</td></tr>
<tr><td>10</td><td colspan="2">Project cost (Rs. In</td><td>Rs. 30 crores</td></tr>
</table>

<table>
<tr><td></td><td colspan="2">crores)</td><td></td></tr>
<tr><td>11</td><td colspan="3">Details of Land Use (Sqm)</td></tr>
<tr><td rowspan="8"></td><td>a.</td><td>Ground Coverage Area</td><td>5015</td></tr>
<tr><td>b.</td><td>Kharab Land</td><td>--</td></tr>
<tr><td>c.</td><td>Internal Roads</td><td>850</td></tr>
<tr><td>d.</td><td>Paved area</td><td>600</td></tr>
<tr><td>e.</td><td>Parking</td><td>70</td></tr>
<tr><td>f.</td><td>Green belt</td><td>4011</td></tr>
<tr><td>g.</td><td>Others Specify</td><td>1460</td></tr>
<tr><td>h.</td><td>Total</td><td>12006</td></tr>
<tr><td>12</td><td colspan="2">Products and By-Products with quantity (enclose as Annexure if necessary)</td><td>List of Products are enclosed as Annexure</td></tr>
<tr><td>13</td><td colspan="2">Raw material with quantity and their source (enclose as Annexure if necessary)</td><td>Detailed in feasibility report Annexure 5</td></tr>
<tr><td>14</td><td colspan="2">Mode of transportation of Raw material and storage facility</td><td>Transportation of most of the raw materials will be through closed loop system through pipelines.

This is Active pharmaceuticals ingredients manufacturing process and solvents will be used in the process. A separate storage facility is provided for the storage of solvents and raw materials. Chemicals are handled as per MSDS.

Dedicated Ware house made available for storage of goods and materials.
<table>
<tr><th>S. No</th><th>Description</th><th>Proposed storage Capacity (MT)</th></tr>
<tr><td>1</td><td>Raw materials</td><td>300</td></tr>
<tr><td>2</td><td>Hazardous raw materials</td><td>50</td></tr>
<tr><td>3</td><td>Solvents</td><td>200</td></tr>
<tr><td>4</td><td>Products Storage</td><td>30</td></tr>
</table></td></tr>
<tr><td>15</td><td colspan="2">Transportation and storage facility for</td><td>Mode of transportation of coal, Briquette & HSD to the project site is by road and Coal & briquette will be stored in separate storage yard</td></tr>
</table>

<table>
<tr><td></td><td>coal / Bio-fuel in case of thermal power plant</td><td>& HSD will be stored in storage tanks</td></tr>
<tr><td>16</td><td>Fly ash production, storage and disposal details whereas coal is used as fuel</td><td>Boiler ash 450000 kg/year will be stored in designated area and will sent to authorized brick manufactures</td></tr>
<tr><td>17</td><td>Complete process flow diagram and technology employed</td><td>Detailed in pre feasibility report & Annexure 4</td></tr>
<tr><td>18</td><td>Details of Plant and Machinery with capacity/ Technology used</td><td>
<table>
<tr><th>Details</th><th>Units</th><th>Proposed</th><th>Source</th></tr>
<tr><td>Back-</td><td>kVA</td><td>1 x 750</td><td>DG Set</td></tr>
<tr><td>Boiler</td><td>TPH</td><td>1 x 6</td><td>Coal/Briquettes</td></tr>
</table>
<table>
<tr><th>Utility</th><th colspan="2">Proposed capacity</th></tr>
<tr><td>Air Compressor</td><td>01 No's</td><td>5-10 Kg/cm^2</td></tr>
<tr><td>Cooling towers</td><td>01 No's</td><td>1 x 300 TR</td></tr>
<tr><td>Boiler</td><td>01 No's</td><td>6 TPH</td></tr>
</table>
</td></tr>
<tr><td>19</td><td>Details of VOC emission and control measures wherever applicable</td><td>
<table>
<tr><th>Source</th><th>Units</th><th>Capacity</th><th>Fuel</th><th>APC Measures</th></tr>
<tr><td>Back-up DG Set</td><td>kVA</td><td>1 x 750</td><td>HSD 90 lts/day</td><td>Adequate stack height 9 m ARL</td></tr>
<tr><td>Boiler</td><td>TPH</td><td>1 x 6</td><td>Coal 18 TPD

Briquettes 20 TPD</td><td>Adequate Stack with height 30 m AGL, Apart from this Cyclone Separators followed by bag filter is also provided.</td></tr>
</table>
<table>
<tr><th>S. No</th><th>Type of Reactors</th><th>Capacity</th><th>No of Scrubbers</th><th>APC measures</th></tr>
<tr><td>1.</td><td>SS Reactors</td><td>5-15KL</td><td>2</td><td>Multi stage scrubbers</td></tr>
</table>
</td></tr>
</table>

			2.	Glass Line Reactors	2-8KL	3	Multi stage scrubbers
20	WATER					
	I.	Construction Phase				
	a.	Source of water	Private tankers			
	b.	Quantity of water for Construction in KLD	25 KLD			
	c.	Quantity of water for Domestic Purpose in KLD	1.12 KLD			
	d.	Waste water generation in KLD	0.9 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	Bore wells & private tankers			
	b.	Total Requirement of Water in KLD	Fresh	51.61 KLD		
			Recycled	55.96		
			Total	**107.57 KLD**		
	c.	Requirement of water for industrial	Fresh	42.61 KLD		
			Recycled	--		
			Total	**42.61 KLD**		

		purpose / production in KLD		
	d.	Requirement of water for domestic purpose in KLD	Fresh	9 KLD
			Recycled	--
			Total	**9 KLD**
	e.	Waste water generation in KLD	Industrial effluent	53.14 KLD
			Domestic sewage	8 KLD
			Total	**61.14 KLD**
	f.	ETP/ STP capacity	STP capacity 15 KLD ETP capacity 70 KLD MEE capacity 60 KLD	
	g.	Technology employed for Treatment	The effluent generated from manufacturing plant is segregated into LTDS & HTDS then LTDS effluent from washing and utilities will be treated through biological ETP with capacity of 70KLD followed by UF nd RO Plant. RO permeate will be used for utilities & washing & RO rejects to MEE. Similarly, HTDS effluent from process will be treated through MEE plant with capacity of 60 KLD. MEE rejects will be sent to ATFD and salt will be disposed through TSDF. MEE condensate to ETP. The domestic sewage will be treated through STP with capacity of 15 KLD. Treated sewage will be reused for Greenbelt development.	
	h.	Scheme of disposal of excess treated water if any	Treated effluent will be used for utilities & washing and Treated sewage water will be used for green belt. ZLD system will be adopted, There is no effluent discharge on land	
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		

Details	Units	Proposed	Source
Back-	kVA	1 x 750	DG Set

			Boiler | TPH | 1 x 6 | Coal/Briquettes And process reactors
	b.	Composition of Emissions	--
	c.	Air pollution control measures proposed and technology employed	**Source** | **Units** | **Capacity** | **Fuel** | **APC Measures** Back-up DG Set | kVA | 1 x 750 | HSD 90 lts/day | Adequate stack height 9 m AGL Boiler | TPH | 1 x 6 | Coal 18 TPD Briquettes 20 TPD | Adequate Stack with height 30 m AGL, Apart from this Cyclone Separators

S. No	Type of Reactors	Capacity	No of Scrubbers	APC measures
1.	SS Reactors	5-15KL	2	Multi stage scrubbers
2.	Glass Line Reactors	2-8KL	3	Multi stage 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	

<table>
<tr><td></td><td>a.</td><td>Quantity of Solid waste generated per day and their disposal</td><td>
<table>
<tr><th>S. No</th><th>Waste</th><th>Proposed (Kg/day)</th><th>Method of disposal</th></tr>
<tr><td colspan="4">Operation Phase</td></tr>
<tr><td>1</td><td>Organic</td><td>54</td><td>Municipal local bins</td></tr>
<tr><td>2</td><td>Inorganic</td><td>36</td><td>KSPCB Authorized Recyclers</td></tr>
<tr><td colspan="4">Construction Phase: 25 Kg/day (Disposed through local bins)</td></tr>
</table>
(As per CPHEEO Guidelines -0.45kg/capita/day)
</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>The list of hazardous waste with their quantity is mentioned in PFR report</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>NA</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>Power required – 750 kVA
Source- GESCOM</td></tr>
<tr><td></td><td>b.</td><td>Numbers of DG set and capacity in KVA for Standby Power Supply</td><td>1 x 750 kVA</td></tr>
<tr><td></td><td>c.</td><td>Details of Fuel used with purpose such as boilers, DG,</td><td>
<table>
<tr><th>Details</th><th>Units</th><th>Proposed</th><th>Source</th></tr>
<tr><td>Coal</td><td>TPD</td><td>18</td><td>Local</td></tr>
</table>
</td></tr>
</table>

		Furnace, TFH, Incinerator Set etc..,		Briquette	TPD	20	Local
				HSD	lts/day	90	DG Set
	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 proposal was placed before the committee for appraisal as per the above furnished information by the proponent.

The Proponent and Environment Consultant attended the 243rd meeting held on 22nd May 2020 to provide clarification/additional information.

The committee appraised 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 observed that this proposal is a Greenfield project, the KIADB allotted this land to the present proponent after due process of cancelling the earlier allotment allotted in favor of Dhanalakshmi Paper Industry.

The proponent has not collected any baseline data and he has not made any provision for RWH.

He has not classified the raw materials under hazardous and non hazardous category and has not given the breakup of entire solvents,. Further risk assessment has not been carried out, for which the proponent agreed to submit the same.

As far as CER is concerned the proponent has earmarked Rs 90lakhs and contributing the same to PM care fund in phased manner.

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

1) Solvent recovery analysis data for all the solvents may be carried out and submitted.
2) Material balances for all the products may be submitted.
3) Risk assessment study may be carried out and submitted.
4) Characterization of the raw material based on the toxicity may be submitted.
5) Provision for RWH may be detailed and submitted.

Action: Secretary, SEAC to put up the proposal before SEAC in Subsequent meeting after receipt of the information sought.

2:00 AM to 6:00PM

243.9 Proposed Expansion of Bulk Drug Intermediates, Active Pharmaceuticals Ingredients manufacturing at Plot No 57 & 58, Humnabad Industrial Area, Bidar District, Karnataka Karnataka 585530 by **SRI VENKATA SAI ORGANICS (SEIAA 19 IND 2020)**

The Proponent and Environment Consultant attended the 243rd meeting held on 22nd May 2020 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report and clarification/additional information provided during the meeting.

This is a proposal listed under violation category during the year 2018 bearing no SEIAA 25 IND (VIOL) 2018. The committee after discussion and deliberation taking into consideration recent letter issued by MoEF&CC, GoI. on 15-05-2020 decided not to proceed with the appraisal and decided to recommend closure of the proposal submitted under B2 category.

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

243.10 Proposed Manufacturing Of "Bulk Drugs And Intermediates" At Plot No.: IP-36,Gowribidanur 1st Phase Industrial area, Kasaba Hobli, Gowribidanur Taluk, Chikkaballapura District, Karnataka By **M/S. NOVOSYNTH HEALTHCARE PVT LTD (SEIAA20IND2020)**

Sl. No	PARTICULARS		INFORMATION
1	Name and Address of the Project Proponent		"Manufacturing of Bulk drugs and intermediates" #29A, KIADB Industrial Area Main Road,Opp. BWSSB, Peenya 2nd Phase, Peenya Industrial Area,Bengaluru-560058
2	Name and Location of the Project		M/s. Novosynth Healthcare Pvt. Ltd Plot No.: IP-36, Gowribidanur 1st Phase Industrial area, Kasaba Hobli, Gowribidanur Taluk, Chikkaballapura District, Karnataka.
3	Co-ordinates of the Project Site		Latitude: 13°42'46.12"N Longitude: 77°30'27.27"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Sri Mahamalleshwara lake at 13.3 (SE)
	b.	Distance from Protected area notified under wildlife protection act	--
	c.	Distance from the interstate boundary	Karnataka- Andhra Pradesh interstate boundary - 200 m (W)
	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)		4047 Sqmt
8	Built Up area (Sqm)		
9	Component of developments		"Manufacturing of bulk drugs and intermediates unit"
10	Project cost (Rs. In crores)		Rs. 4.9 crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	1428
	b.	Kharab Land	--
	c.	Internal Roads	770
	d.	Paved area	--
	e.	Parking	190
	f.	Green belt	1422
	g.	Others Specify	Utility - 237
	h.	Total	4047

12	Products and By- Products with quantity (enclose as Annexure if necessary)		Proposed products with capacities are attached as Annexure - 1	
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		Fly ash 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		Pellet/wood fired boiler -2 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	5 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	63.41
			Recycled	--
			Total	63.41
	c.	Requirement of water for industrial	Fresh	54.41

		purpose / production in KLD	Recycled	--
			Total	54.41
	d.	Requirement of water for domestic purpose in KLD	Fresh	5.00
			Recycled	--
			Total	5.00
	e.	Waste water generation in KLD	Industrial effluent	39.18
			Domestic sewage	5.00
			Total	44.18
	f.	ETP/ STP capacity	MEE of 40 KLD capacity with stripper and ATFD	
	g.	Technology employed for Treatment	MEE of 40 KLD capacity with stripper and ATFD	
	h.	Scheme of disposal of excess treated water if any	Zero discharge	
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 2 Boiler - Pellet/Wood fired Boilers: 2 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		Risk assessment and Disaster management has been detailed in EMP	
27	POWER			

	a.	Total Power Requirement in the Operational Phase with source	Power required - 250 KVA Source- BESCOM
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	125 KVA X 2
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Boiler - Pellet/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- 18 m Internal road width - 6 m
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 243rd meeting held on 22nd May 2020 to provide clarification/additional information.

The committee appraised 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 observed that this is a green field project proposed to manufacture APIs, Intermediates and specialty chemicals. The committee expressed concerns about manufacturing the pharmaceutical products along with the other chemicals, for which the proponent has stated that the other chemicals also are the raw materials to manufacture products like sanitizers and related biocides which are components of the general public health. The proponent has collected one time baseline data.

The proponent has also stated that he has carried out risk assessment for methanol because of the fact that it is stored in bulk. The committee felt that the risk assessment in case of other solvents is also necessary, for which the proponent has agreed to carry out the same and submit.

As far as boiler fuel is concerned the proponent has stated that he will go for briquettes only and dispense with wood.

During appraisal it is noticed that the proponent has proposed xylene as a solvent in place of toluene, but as far as benzene based solvents, he has agreed to replace the same with other environment friendly solvents.

It is noticed that the classification of the raw materials has not been done under hazardous and non hazardous category, for which the proponent has agreed to submit the same.

As far as CER is concerned the proponent has earmarked Rs 5lakhs and contributing the same to PM care fund.

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) Risk assessment study for all the solvents may be carried out and submitted.
2) Characterization of the raw material based on the toxicity may be submitted.

The committee also imposed the following condition.

1) Replace benzene based solvents with the alternatives

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

DEFFERED PROJECT:-

243.11 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 (SEIAA 43 IND2019)**

<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 and change in product mix of APIs manufacturing capacity and establishment of new facility for manufacture of Biopharmaceutical products 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"N
74°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>
<tr><td>E</td><td>12°58'51.55"N
74°51'50.02"E</td><td>L</td><td>12°58'46.56"N
74°51'28.33"E</td></tr>
<tr><td>F</td><td>12°58'55.05"N
74°51'44.14"E</td><td>M</td><td>12°58'48.06"N
74°51'26.71"E</td></tr>
<tr><td>G</td><td>12°58'50.71"N</td><td>N</td><td>12°58'52.67"N</td></tr>
</table></td></tr>
</table>

				74°51'42.79"E		74°51'21.67"E
4	Environmental Sensitivity					
	a.	Distance from Nearest Lake/ River/ Nala	• Gurpur river is at 11 km in South-East direction • Arabian sea is at 9 km in West direction • KulaiBaggundi Lake is at 5.4 km in South-West direction • Pilikula Nisarga Dhama Lake is at 7 km in South-East direction • Kavoor Lake is at 7.2 km in South direction from the project site.		
	b.	Distance from Protected area notified under wildlife protection act	• The Pilikula Nisarga Dhama Bological 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)		Proposed change in product mix of EC and CFO consented and proposed APIs products details given in Annexure -1. Proposed biopharmaceutical products details in Annexure -2. Production scenario after expansion is given in Annexure -3 to this checklist.	
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Raw materials with quantity and their source is detailed in EMP report	
14	Mode of transportation of Raw material and storage facility		Most of the raw materials will be received by road ways only. Details are provided in EMP report. 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 EMP report	
18	Details of Plant and Machinery with capacity/ Technology used		Detailed in EMP report	
19	Details of VOC emission and control measures wherever applicable		Detailed in EMP report	
20	WATER			
	I.	Construction Phase		
	a.	Source of water	MSEZL supply	
	b.	Quantity of water for Construction in KLD	100	
	c.	Quantity of water for Domestic Purpose in KLD	20	
	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	1189
			Recycled	442
			Total	1631
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	-
			Recycled	Details are provided in EMP report
			Total	
	d.	Requirement of water for domestic	Fresh	

		purpose in KLD	Recycled	
			Total	
	e.	Waste water generation in KLD	Industrial effluent	
			Domestic sewage	
			Total	
	f.	ETP/ STP capacity	Provided in EMP report	
	g.	Technology employed for Treatment	Zero Liquid Discharge system	
	h.	Scheme of disposal of excess treated water if any	-	
21	Infrastructure for Rain water harvesting		Details are provided in EMP report	
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 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	
	b.	Composition of Emissions	SO_2, NOx	
24	Noise Pollution			

<table>
<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">DG 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="4">WASTE MANAGEMENT</td></tr>
<tr><td></td><td>I.</td><td colspan="3">Operational Phase</td></tr>
<tr><td></td><td rowspan="2">a.</td><td rowspan="2">Quantity of Solid waste generated per day and their disposal</td><td>Biodegradable</td><td rowspan="2">Solid Waste:
Office waste like paper etc. is expected.
Plastic drums and bags will be sold to KSPCB authorized recycler.</td></tr>
<tr><td>Non- Biodegradable</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">Mode of disposal of hazardous waste will be detailed in EMP report.
<table>
<tr><th>Name of the hazardous waste</th><th>Category no</th><th>As per EC</th><th>Final Quantity /Annum</th></tr>
<tr><td>Used Oil /Spent Oil</td><td>5.1</td><td>1200 Lts/annum</td><td>1.2 KL</td></tr>
<tr><td>Wastes or residues containing oil</td><td>5.2</td><td>-</td><td>5 MT</td></tr>
<tr><td>Process Residue and wastes</td><td>28.1</td><td>2.45 TPD</td><td>882 MT</td></tr>
<tr><td>Spent Catalyst</td><td>28.2</td><td>0.094 TPD</td><td>34 MT</td></tr>
<tr><td>Spent Carbon</td><td>28.3</td><td>-</td><td>10 MT</td></tr>
<tr><td>Spent Solvents</td><td>28.6</td><td>143.25 TPD</td><td>51560 MT</td></tr>
<tr><td>Empty barrels/ containers/ liners contaminated with hazardous chemicals/ wastes</td><td>33.1</td><td>40000 Nos/ per annum</td><td>40000 Nos/ annum</td></tr>
<tr><td>Chemical sludge from waste water treatment</td><td>35.3</td><td>15 TPD</td><td>5400 MT</td></tr>
</table></td></tr>
</table>

				Concentration or evaporation residues (MEE Salt)	37.3	-	1825 MT
				Process residue and waste from biopharma products	28.1	-	32.8 MT
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	-				
26	Risk Assessment and disaster management		Risk assessment carried out,details are in EMP report				
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 EMP report				
	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.				

30.	Products	Proposed change in product mix Quantity (TPA)	EC consented Products no change in capacity	Quantity (TPA)	Remarks
	Active Pharmaceutical Ingredients		**Agro chemicals**		
1	SAPI 01 (Benzodiazepine Phenylacetamido Acetic Acid)	6	SAIG 01 (Cloropyridine Carboxamide)	100	Existing
2	SAPI 02 (Imidazole Dicarbamate)	0.6	SAIG 02 (Methoxyamino Chlorobenzene)	100	Existing
3	SAPI 03	2.4	SAIG 03 (Trifluoromethyl	15	Existing

	(PhenoxyAlaninate)		Pyrimidine)		
4	SAPI 04 (Biphenyl Derivative)	1.2	SAIG04 (Dichloropyridinone)	15	Existing
5	SAPI 05 (Dibenzofuran)	4.8	SAIG 05 (Tetramethylfuranone)	15	Existing
6	SAPI 06 ((Aminocyclopropyl) Benzoate)	2	SAIG 06 (Bromochloroalkylaniline)	20	Existing
7	SAPI 07 (BromoPyrazine)	4.8	SAIG 07 (Chloropyridinecarboxylic Acid)	20	Existing
8	SAPI 08 (FlouroOxazine)	2.4	SAIG 08 (Dichlorodisodiumbenzoate)	20	Existing
9	SAPI 09 (Phenylquinazoline)	6	SAIG 09 (Chloromethoxysulphonamide)	15	Existing
10	SAPI 10 (Azaspiro carboxylic acid)	3	-	-	Existing
11	SAPI 11 (AzabicycloOctanone)	3	-	-	Existing
12	SAPI 12 (PyrrolidineCarboxamide)	3.96	-	-	Existing
13	SAPI 13 (Triflouromethoxy Imidazole)	3	-	-	Existing
14	SAPI 14 (1H-Pyrazole-3-Carboxamide)	2.4	-	-	Existing
15	SAPI 15 (Butanoic Acid)	3	-	-	Existing
16	SAPI 16 (Oxathiepine Carboxylate Derivative)	2.4	-	-	Existing
17	SAPI 17 (Methoxynaphthanlene Derivative)	6	-	-	Existing
18	SAPI 18 (Quinoline Derivative)	2.4	-	-	Existing
19	SAPI 19 (Cetyl Ester)	4	-	-	Existing
20	SAPI 20 (Cyclene Ester)	2.4	-	-	Existing
21	SAPI 21 (HydroxymethylTrihydrofuran)	3.6	-	-	Existing
22	SAPI 22 (Indolpiperidone Carboxylate)	1.2	-	-	Existing
23	SAPI 23 (Methylpyrrolidine Hydrochloride)	2.4	-	-	Existing
24	SAPI 24 (MethoxyphenylOxetane)	2.4	-	-	Existing
25	SINT 01 (Dichlorocarboxamide)	6.96	-	-	Existing

26	SINT 02 (BenzamideMethanesulfonate)	3.96	-	-	Existing
27	SINT 03 (Flouren Glutamine)	12	-	-	Existing
28	SINT 04 (Benzonitrile Amide)	3	-	-	Existing
29	SINT 05 (Pyrrole – Pyrimidine)	9.96	-	-	Existing
30	SINT 06 (Bromo – Methoxy – PyrrolePyrimidine)	9	-	-	Existing
31	SINT 07 (MethoxyOxobutanoic Acid)	3	-	-	Existing
32	SINT 08 (Benzyl chloro pyrimidine derivative)	9.96	-	-	Existing
33	SINT 09 (Bromo Aniline)	20.04	-	-	Existing
34	SINT 10 (TriflouromethoxyOxazine)	2.4	-	-	Existing
35	SINT11(AcetamideTetrahydrobenzothiadizepene)	9.96	-	-	Existing
36	SINT 12 (Nitro Imadazole)	9	-	-	Existing
37	SINT 13 (TetramethylHydopyran)	2.4	-	-	Existing
38	SINT 14 (Pyran-3-Carboxamide)	4.8	-	-	Existing
39	SINT 15 (Proline Derivative)	30.24	-	-	Existing
40	SINT 16 (Aniline Derivative)	2.4	-	-	Existing
41	SINT 17 (DibromoPyrazine)	3	-	-	Existing
42	SINT 18 (BocPyrolidine)	9	-	-	Existing
43	SINT 19 (Nicotinic Acid Ester)	5.04	-	-	Existing
44	SINT 20 (Itaconic Acid Ester)	9.96	-	-	Existing
45	SINT 21 (Allyl Derivative)	9.96	-	-	Existing
46	SINT 22 (Benzyl Indanone)	3	-	-	Existing
47	SINT 23 (Indanone derivative)	3.6	-	-	Existing

48	SINT 24 (Isophthalate Derivative)	9.96	-	-	Existing
49	(SAPI-25) Orlistat	36.0			New
50	(SAPI-26) Pyranone	30.0			New
51	(SINT-25) CBTA	39.6			New
52	(SAPI-27) ACH-0145993	0.2			New
53	(SAPI-28) LYP 010	0.55			New
54	(SINT-26) APR-246	0.5			New
55	(SAPI-29) Hydroxychloroquine	69.0			New
56	(SAPI-30) Remdesivir	39.5			New
57	(SINT-27) Bromo thiadiazepine	0.6			New
58	(SINT-28) Methoxy acridin diamine	6.0			New
59	(SINT-29) Diketotriazolo pyridine der	1.4			New
60	(SAPI-31) Vactosertib	0.6			New
61	(SAPI-32) 8-chloronaphthalen-piperizine derivative	1.0			New
	Total	**492.91**		**320**	

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 intimation that the proposal will be appraised based on merit in his absence, in case he remains absent and deferred the subject.

The proponent was invited for the 243rd meeting held on 22.05.2020 to provide required clarification and additional information.

The committee observed that this is a proposal for the expansion of the existing project for which the EC was issued during the year 2016. The proponent has stated that the project has started trial run in the month of Feb-2020. Since this is less than six months no half yearly EC compliance for operation has been filed.

Due to this proposal total overall production gets increased from 708TPA to 810TPA. During appraisal it is noticed that the proponent has not maintained mandatory 33% green area within the project site for which the proponent has readily agreed to revise the layout plan to accommodate 33% of the plot area for the greenery purpose.

It is also noticed that the benzene based products and Raney nickel catalyst has been proposed. When the committee expressed concerns about the toxicity of these products the proponent has agreed to go for alternatives which are more environmental friendly.

During appraisal the proponent has agreed to go for UNEP cleaner modulation guide lines for production.

It is also observed that the solvent storage capacity has been created just by the side of the road and in worst case scenario the risk may spread into the public road for which the proponent has agreed to rework the storage capacity of the solvents.

It is also noticed that the consumables have not been classified under hazardous and non hazardous categories for which the proponent has agreed to classify the same. Likewise the waste generated also to be calculated according to its toxicity, for which the proponent has agreed to comply the same.

In view of the proximity to Pilikula Nisarga Dhama and mangroves, the Biodiversity protection plan should be prepared in consultation with forest authorities and approved by PCCF wild life along with Budget back up with time frame may be submitted

As far as CER is concerned the proponent has earmarked Rs 4crores for contributing the same to PM care fund.

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) Revise the layout plan to accommodate 33% of the plot area for the greenery purpose may be submitted.
2) Characterization of the raw material based on the toxicity may be submitted.
3) Rework the storage capacity of the solvents storage tanks and submitted.
4) Biodiversity protection plan to be prepared in consultation with forest authorities and approved by PCCF wild life along with Budget back up with time frame may be submitted

The committee also imposed the following condition.

1) Replace benzene based solvents and also Raney nickel catalyst with the alternatives

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

RECONSIDERED PROJECT:

243.12 Proposed Construction of Commercial Building DNR Arcadia at Sy.No.59/1, 60/2, 3,4,6,7,8,9,10,11,12,13,94/6 & 7 of Nagavara Village, Kasaba Hobli, Bangalore North Taluk **by M/s. DNR Corporation Pvt. Ltd(SEIAA 23 CON 2019)**

Sl. No	PARTICULARS	INFORMATION

1	Name & Address of the Project Proponent	D N R Corporation Pvt Ltd #304,AWing, 3rd floor, Queens Corner, No.3 Queens Road, Bangalore 560 001.
2	Name & Location of the Project	D N R ARCADIA. Sy No. 59/1,60/2 to60/4,60/6 to 60/13,60/16,94/6 and 94/7,Nagvara village, Kasaba Hobli, Bangalore North Taluk, Bangalore dist.
3	Co-ordinates of the Project Site	Latitude: 13°02' 48.05" & Longitude: 77°36'46.83" @ centre of plot
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Nagavara lake which is about 200 mts from the building line, Hebbal lake which is about 750mts from building line There is Primary nala running towards the North to east portion of the site and the distance is more than 75mts
b.	Type of water body at the vicinity of the project site and Details of Buffer provided as per NGT Direction in O.A 222 of 2014 dated 04.05.2016, if Applicable.	As above
5	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	IT/ITES with food court
b.	Residential Township/ Area Development Projects	NA
6	Plot Area (Sq.M)	50892.84sqmts
7	Built Up area (Sq.M)	257422.06
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	3B + Ground+16 UPPER FLOORS

9	Number of units in case of Construction Projects	N A
10	Number of Plots in case of Residential Township/ Area Development Projects	NA
11	Project Cost (Rs. In Crores)	250
12	Recreational Area in case of Residential Projects / Townships	N A
13	Details of Land Use (Sq.M)	
a.	Ground Coverage Area	12357.62
b.	Kharab Land	NA
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	20591
d.	Internal Roads	4174.72
e.	Paved area	11224.86
f.	Others Specify	2544.64 for surface parking
g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
h.	Total	50892.84 Sqmts
14	Details of demolition debris and / or Excavated earth	
a.	Details of Debris (in cubic meter/MT) if it involves Demolition of existing structure and Plan for re use as per Construction and Demolition waste management Rules 2016, If Applicable	NA
b.	Total quantity of Excavated earth (in cubic meter)	229900
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	185550.7 will be used in the site And 44349.3 will be stored in the site for further use.
d.	Excess excavated earth (in cubic meter)	NIL
e.	Plan for scientific disposal of	Excavated earth will be used in the site as

		excess excavated earth along with Coordinate of the site proposed for such disposal	under Back filling 18989.74 Back filling in site to Correct the level difference 53060.92 Ramps and driveway 29335.24 Landscaping 19084.8 Garden in podium 25590 Mounds & slopes 36690.00 Soil Cement blocks 2800 Soil stacked in site for further use 44349.3
15		WATER	
	I.	Construction Phase	
	a.	Source of water	M O U will be Submitted along with EIA report
	b.	Quantity of water for Construction in KLD	About 50kl
	c.	Quantity of water for Domestic Purpose in KLD	27.5
	d.	Waste water generation in KLD	3.5 kl
	e.	Treatment facility proposed and scheme of disposal of treated water	2 no.s of Septic tanks of 5kl each alt cleaned by mechanical means or mobile toilets with STP
	II.	Operational Phase	
	a.	Total Requirement of Water in KLD	Fresh 577 Recycled 452 Total 1029
	b.	Source of water	BWSSB, N O C letter enclosed
	c.	Waste water generation in KLD	927
	d.	STP capacity	930
	e.	Technology employed for Treatment	SBR with extended aeration
	f.	Scheme of disposal of excess treated water if any	Zero discharge plan
16		Infrastructure for Rain water harvesting	
	a.	Capacity of sump tank to store Roof run off	2 No.s of UG Sumps of 265 cum with impervious walls will be constructed to store the pre filtered rain water runoff from the terrace
	b.	No's of Ground water recharge	15No.s Recharge deep tube wells at the

		pits	bottom of the peripheral drains will be constructed to recharge the ground water
17		Storm water management plan	Peripheral drains all round the boundary with oil and grease traps , silt traps and catch basins before getting into the external storm drains
18		WASTE MANAGEMENT	
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	1.Steel bits - about 12.5 tons sold to recyclers 2.Concrete spill and debris used as road fill consolidation 3.Plywood shuttering and centring material about 6250 Kgs will be given away to Brick kilns 4. Waste mineral oils, lubricants about 250 Lts will be given to KSPCB approved Recyclers 5. Exhausted paint containers, gunny sacks, electrical items, plumbing items and allied defunct spares of construction machinery about 10 tons will be given away to KSPCB approved recyclers
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1.11MTs processed in the organic waste converters to generate manure
	b.	Quantity of Non-Biodegradable waste generation and mode of Disposal as per norms	4.44 MTs disposed to the Municipal approved garbage clearing contractors
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	About 1500 Lts, Disposed to KSCPB approved recyclers
	d.	Quantity of E waste generation and mode of Disposal as per norms	332.64 Kgs will be stored and disposed to authorized recyclers from KSPCB
19		POWER	
	a.	Total Power Requirement - Operational Phase	7388KVA
	b.	Numbers of DG set and capacity in KVA for Standby	10No. X 2000KVA,

		Power Supply	
	c.	Details of Fuel used for DG Set	Low sulphur HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	26.7%
20		PARKING	
	a.	Parking Requirement as per norms	3614
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	"Traffic studies will be provided along with the E T A studies report and compliance to TORs issued.
	c.	Internal Road width (RoW)	8.0mts

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

The proponent was invited for the 219th meeting held on 27-3-2019 to provide required clarification.

The committee screened the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report, Conceptual plan and clarification/additional information provided during the meeting.

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

1) Details of the Kharab land and its position on the village survey map may be detailed and submitted.
2) Ground water potential and level in the study area may be studied.
3) Scheme for waste to energy plant to process the entire organic waste generated from the entire project.
4) Management plan to utilize the entire earth generated within the site may be worked out and submitted.
5) Utilization of the entire terrace for solar power generation may be worked out and submitted along with layout, efficiency of panels, and cost estimation. Explore and enumerate feasibility of BIPV for glass panels in the façade.
6) Scheme for utilizing maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.

7) Rain water harvesting/storage details may be worked out.
8) Surface hydrological study of surrounding area may be carried out and the carrying capacity of the natural nalas may be worked out in order to ascertain the adequacy in the carrying capacity of the nalas.
9) To submit the Details of trees to be felled and the scheme for development of greenery with the number and kind of tree species as per the norms.
10) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
11) ECBC norms to be fully complied with for design and choice of equipments. Simulation modeling studies to be conducted and quantify the energy savings. Indicate the energy utilization intensity = (total KHW/year)/BUA, bench mark this value for similar commercial buildings.
12) Carbon footprint to be estimated for construction and operation phase. Suitable offsets to be implemented, quantified and detail calculation to be submitted to try and achieve near zero carbon foot print.
13) Traffic simulation studies to be conducted for present and projected traffic densities along with transportation study for construction phase. Traffic plan to be prepared in order to reduce vehicular emissions and project the vehicular emissions through linear air modeling.
14) Minimum 20% Green building materials used, to be detailed and indicated in the floor plan/elevation drawings. Total embodied energy in the building materials used for construction to be calculated and steps taken to reduce the same may be detailed out.
15) Provide baseline studies of indoor air quality at each floor level and basement of other commercial buildings developed by the proponent. Detail the measures to monitor indoor air quality during operation phase.

The proponent submitted EIA report on 21.01.2020.

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 committee appraised the proposal considering the information provided in the statutory application-Form I, Form-1A, Conceptual Plan and clarification/additional information and EIA report provided during the meeting.

As far as CER is concerned the proponent has stated that he will earmark Rs. 1.8crores to take up greenery work in UAS GKVK campus, Bangalore in consultation with university authorities.

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

1) Detail of Earthwork management to manage the entire earth generated within the project site may be detailed and submitted.
2) Storage capacity of rainwater harvested from terrace area and hard paved area may be worked out and submitted.
3) The commitment to go for CNG Gen sets instead of diesel gen sets may be
4) Land use and land cover analysis of study area based on high resolution satellite imagery may be prepared and submitted.

The proponent submitted replies on 12-05-2020. The replies submitted by the proponent were placed before 243rd meeting held on 22-05-2020 as an additional agenda.

The committee perused the replies submitted by the proponent and accepted the same.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environment Clearance.

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

Secretary, SEAC
Karnataka

Chairman, SEAC
Karnataka