Proceedings of the 228th SEAC Meeting held on 6th, 7th and 8th August 2019

6th August 2019

Members present in the meeting:

Shri. N. Naganna	-	Chairman
Shri. B. Chikkappaiah,IFS(R)	-	Member
Dr. N. Krishnamurthy	-	Member
Dr. K.B Umesh	-	Member
Shri M. Srinivasa	-	Member
Shri G.T Chandrashekharappa	-	Member
Dr. Vinodkumar C.S	-	Member
Shri. Vyshak V. Anand	-	Member
Shri D. Raju	-	Member
Shri J.G Kaveriappa	-	Member
Shri Venugopal .V	-	Member
Shri Md. Saleem I Shaikh	-	Member
Dr. B.S Jai Prakash	-	Special Invitee
Shri. Vijaya Kumar,IFS	-	Secretary

The Chairman, SEAC, Karnataka welcomed the members of the Committee and others present. All the members present have confirmed that they have received the full set of copies of the project documents which are submitted to the Authority by the project proponent pertaining to all the subjects to be appraised in the 227th SEAC meeting. The following proposals listed in the agenda were appraised in accordance with the provisions of EIA Notification 2006. The MoEF Notification Dated:1st July 2016, NGT orders Dated:13-1-2015, 13-9-2018, 11-12-2018 and the O.M Dated:12-12-2018 pertaining- to mining of minerals were brought to the notice and read before the committee and also brought to the notice of the committee that all the mining projects need to be appraised in light of above mentioned NGT orders, Notification and OM issued by MoEF & CC, GoI. The supreme court judgement dated:5-3-2019 pertaining to buffer zones mandated for construction/industrial projects was 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 227th SEAC meeting held on 23rd, 24th and 25th July 2019.

The State Expert Appraisal Committee, Karnataka perused the proceedings of 227th SEAC meeting held on 23rd, 24th and 25th July 2019 and confirmed the same.

6th August 2019

EIA Proposals:

228.1 Proposed Modification and Expansion of residential Apartment" project at Sy.No.159/1, 159/2, 160/1, 167/1, 167/2, 167/3, 167/4, 168, 169/1, 169/2, 169/3, 169/4 & 171 of Kannamangala Village, Bidarahalli Hobli, Bengaluru

East Taluk, Bengaluru District by M/s. Assetz Whitefield Homes Pvt., Ltd(SEIAA 30 CON 2019)

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Mr. Anandeep K Chadha Chief Financial controller M/s. Assetz Whitefield Homes Pvt Ltd. 2nd floor, Embassy Icon Annexe Infantry Road, Bengaluru - 56001
2	Name & Location of the Project	Modification and expansion of residential apartment At Survey Nos.159/1, 159/2, 160/1, 167/1, 167/2, 167/3,167/4, 168, 169/1, 169/2, 169/3, 169/4 & 171 of Kannamangala Village, Bidarahalli Hobli, Bengaluru east taluk,, Bengaluru District.
3	Co-ordinates of the Project Site	Latitude: 13°01'28.63" N Longitude: 77°45'51.32"E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Kunte in NE direction - 75 m buffer as been left. Tertiary nala at SE direction - 25 meter buffer left.
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.	Not Applicable
5	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Modification and expansion of residential apartment
b.	Residential Township/ Area Development Projects	Not Applicable
6	Plot Area (Sqmt)	1,14,526.04 Sqmt (28 Acres, 1.60Guntas)
7	Built Up area (Sqmt)	4,38,971.66 Sqmt
8	Building Configuration [Number of Blocks/Towers/Wingsetc. ,with Numbers of	<table><tr><td>Building-1</td><td>Units</td><td>Height (m)</td></tr><tr><td>Tower-1/Wing 1- 2B+G+13F</td><td>547</td><td>43.60 m</td></tr></table>

	Basements and Upper Floors]	Tower-2/Wing 2- 2B+G+9F	units	31.80 m
		Tower-3/Wing 3-2B+G+26F		81.95 m
		Tower-4/Wing 4- 2B+G+8F		28.85 m
		Club- G+2F		10.80 m
		Proposed building:		
		Building-2		
		Tower-5/Wing 5 - B+G+28F		25.05 m
		Club- G+1F		8.9 m
		Building-3	1380 units	
		Tower-6/Wing 6- B+G+28F		89.05 m
		Club- B+GF		9.70 m
		Building-4		
		Tower-7/Wing 7- B+G+29F		91.05 m
		Tower-8/Wing 8- B+G+29F		91.05 m
		Commercial building 3B+G+15F		58 m
		School- GF+3F		14.95 m
9	Number of units in case of Construction Projects	1927 units		
10	Number of Plots in case of Residential Township/ Area Development Projects	Not Applicable		
11	Project Cost (Rs. In Crores)	Proposed - 870 Crores		
12	Recreational Area in case of Residential Projects / Townships	Not Applicable		
13	Details of Land Use (Sqmt)			
a.	Ground Coverage Area	20672.83 Sqmt		
b.	Kharab Land	--		
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	Landscape area (earth)	25046.62 Sqmt	
		Landscape area (Podium)	13297.52 Sqmt	
d.	Internal Roads			
e.	Paved area	--		
f.	Others Specify	--		

g.	Parks and Open space in case of Residential Township/ Area Development Projects	11365 Sqmt	
h.	Total	1,14,526.04 Sqmt (28 Acres, 1.60Guntas)	
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	Not Applicable since it is new project	
b.	Total quantity of Excavated earth (in cubic meter)	2,84,550 Cum	
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	2,84,550 Cum completely utilised within the project site	
d.	Excess excavated earth (in cubic meter)	There is no excess excavated earth	
e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	Backfilling, foundation, road area and for gardening	
15	WATER		
I.	Construction Phase		
a.	Source of water	STP treated water for construction purpose & Tanker water for domestic	
b.	Quantity of water for Construction in KLD	45 KLD	
c.	Quantity of water for Domestic Purpose in KLD	14 KLD	
d.	Waste water generation in KLD	12 KLD	
e.	Treatment facility proposed and scheme of disposal of treated water	will be treated in mobile STP	
II.	Operational Phase		
a.	Total Requirement of Water in KLD	Fresh	1277 KLD
		Recycled	698 KLD
		Total	1975 KLD

b.	Source of water	Grampanchayath/ Borewell
c.	Waste water generation in KLD	1777 KLD
d.	STP capacity	1780 KLD
e.	Technology employed for Treatment	Sequencing Batch Reactor (SBR) Technology
f.	Scheme of disposal of excess treated water if any	805 KLD
16	Infrastructure for Rain water harvesting	
a.	Capacity of sump tank to store Roof run off	320 cum
b.	No's of Ground water recharge pits	43 no's
17	Storm water management plan	• Land is gently sloping terrain and sloping towards South direction. • Separate and independent rainwater drainage system will be provided for collecting rainwater from terrace and paved area, lawn & roads. • Rainwater collection tank of capacity 320cum is proposed which will be provided to collect the roof run off, which will be reused after prior treatment. • 43 number of recharge pits will be provided to recharge the ground water within the site; excess runoff during the monsoon period finds its way to external storm water drain
18	WASTE MANAGEMENT	
I.	Construction Phase	
a.	Quantity of Solid waste generation and mode of Disposal as per norms	Quantity – 98 kg/day Solid waste will be collected manually and handed over to local body for further processing
II.	Operational Phase	
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	Quantity – 2.91 Kg/day Organic wastes will be segregated & collected separately and processed in organic waste converter Sludge generated from STP of capacity 98 kg/day will be reused as manure for greenery development purposes.
b.	Quantity of Non-Biodegradable waste generation and mode of	Quantity – 4.35tonnes/day Recyclable waste will be given to the waste collectors for recycling for further processing.

	Disposal as per norms	
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste oil generated from the DG sets will be collected in leak proof barrels and handed over to the authorized waste oil recyclers.
d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-Wastes will be collected & stored in bins and disposed to the authorized & approved KSPCB E-waste processors.
19	POWER	
a.	Total Power Requirement - Operational Phase	BESCOM – 18,693 kW
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1X2500KVA, 3X2000KVA, 8X750KVA, 2X500KVA, 1X320KVA, 1X100KVA
c.	Details of Fuel used for DG Set	
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation devices such as Solar energy, LED lights, Copper wound transformer are proposed in the project. Overall energy saving is 23.76%
20	PARKING	
a.	Parking Requirement as per norms	Required = 3221 no's, Provided = 3321 no's
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	--
c.	Internal Road width (RoW)	Approach road width – 24.7 m Internal road width is – 8.12 m

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 220th meeting held on 9-4-2019 to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form I, Conceptual plan and clarification/additional information provided during the meeting.

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

1) 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 utilise 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.
6) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.
7) 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.
8) 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.
9) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
10) 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.
11) 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.
12) 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.
13) 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.
14) The NOC from the Airport authority regarding the height of the building permitted may be obtained and submitted.
15) Ground Water analysis shall be conducted for heavy metal parameters such as Mercury, Lead, Cadmium, & Uranium also.

Accordingly the ToRs were issued vide letter dated: 28-5-2019.

The proponent has submitted the EIA report vide letter dated: 6-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The proponent was invited for EIA appraisal. The proponent remained absent and submitted a letter during the meeting requesting to consider their subject in forth coming meeting.

Hence the committee decided to defer the appraisal.

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

228.2 Proposed Modification & Expansion of Bulk Drug and Intermediates Unit Project at Plot Nos.55, 56, 71 & 72 of KIADB Industrial Area, Raichur Growth Centre, Chikasugur Village, Raichur Taluk & Raichur District **By M/s. Sparkvee Fine Chemicals Pvt. Ltd. (SEIAA 46 IND 2018)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		**Mr. P Ramesh Kumar** Managing Director Plot No.: 55, 56, 71 & 72, K.I.A.D.B., Industrial Area, Raichur Growth Centre, Raichur Tq. & District, Chicksugur – 584 134, Karnataka.
2	Name & Location of the Project		**M/s. Sparkvee Fine Chemicals Private Limited,** Plot No.: 55, 56, 71 & 72, K.I.A.D.B., Industrial Area, Raichur Growth Centre, Raichur Tq. & District, Chicksugur – 584 134, Karnataka..
3	Co-ordinates of the Project Site		**Latitude - 16° 18.543'N** **Longitude - 77° 21.355'E**
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Krishna river- 8 km (N)
	b.	Distance from Protected area notified under wildlife protection act	NA
	c.	Distance from the interstate boundary	Karnataka–Telangana interstate boundary – 8.4Km
	d.	whether located in critically / severally polluted area as per the CPCB norms	No
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Activity 5 (f) of Category-B
6	New/ Expansion/ Modification/ Product mix change		Modification & Expansion
7	Plot Area (Sqm)		8094 Sqmt
8	Built Up area (Sqm)		1785 Sqmt
9	Component of developments		"Manufacturing of Bulk drug and Intermediates unit"
10	Project cost (Rs. In crores)		Rs. 4 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	1785.67 Sqmt
	b.	Kharab Land	--
	c.	Internal Roads	3436 Sqmt
	d.	Paved area	--
	e.	Parking	--

	f.	Green belt	2812 Sqmt
	g.	Others Specify	--
	h.	Total	8094 Sqmt
12	Products and By- Products with quantity (enclose as Annexure if necessary)		Refer Annexure-1
13	Raw material with quantity and their source (enclose as Annexure if necessary)		Refer Annexure-2
14	Mode of transportation of Raw material and storage facility		The chemicals required for the process are mostly bought from the local (indigenous) markets. Mode of transportation of all raw 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 o brick manufacturing industry
17	Complete process flow diagram and technology employed		Will be detailed in EIA
18	Details of Plant and Machinery with capacity/ Technology used		1 TPH, 3 TPH - Boiler Capacity 200 KVA - Dg capacity
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	1 KLD
	d.	Waste water generation in KLD	0.8 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	STP
	II	Operational Phase	
	a.	Source of water	KIADB
	b.	Total Requirement of Water in KLD	75 KLD

	c.	Requirement of water for industrial purpose / production in KLD	20 KLD	
	d.	Requirement of water for domestic purpose in KLD	3 KLD	
	e.	Waste water generation in KLD	Industrial effluent	35 KLD
			Domestic sewage	2.5 KLD
			Total	**37.5KLD**
	f.	ETP/ STP capacity	MEE of 30 KLD capacity with stripper and ATFD	
	g.	Technology employed for Treatment	MEE of 30 KLD capacity with stripper and ATFD	
	h.	Scheme of disposal of excess treated water if any	Zero discharge	
21	Infrastructure for Rain water harvesting		25 KLD will be provided to recharge roof rain water	
22	Storm water management plan		For the storm water drain, will going to provide closed concrete structures which do not pass chemical to the drain by washing and treatment of chemicals.	
23	Air Pollution			
	a.	Sources of Air pollution	Dg set, Boiler	
	b.	Composition of Emissions	--	
	c.	Air pollution control measures proposed and technology employed	Process emission will be connected to 2 stage scrubber for treatment	
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 solid waste	330.25 kg/day
			MEE salts	0.85 TP/DAY
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	**Description**	**Quantity**
			HDPE drums	500 No's/month
			Spent carbon	41.53 KG/DAY
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	--	
26	Risk Assessment and disaster		Will be provided during EIA submission	

	management		
27	POWER		
	a.	Total Power Requirement in the Operational Phase with source	Electricity– GESCOM – 350 KVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	200 kVA X 1
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Boiler – Coal Dg set - HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation devices such as CFL and LED lights are proposed in the project.
28	PARKING		
	a.	Parking Requirement as per norms	60 numbers
	b.	Internal Road width (RoW)	Approach road width – 18m Internal road width - 6 m (min)
29		Any other information specific to the project (Specify)	--

Annexure -1

As per the earlier EC, company manufacturing the following products & intermediates; List of existing products produced with quantity is shown below

EXISTING PRODUCTS:

Sl. No.	Name Of The Product	Existing Quantity Kg/month)
1	Polystyrene Hydantoin	4000.00
2	Hydantoin	4000.00
3	2-Phenyl Benzimidazole-5-Sulphonic acid (PBSA)	2000.00
4	Cyclohexanone Tetra Propionic Acid (T4)	2000.00
5	Ethyl Hexyl Triazone (EHT)	2000.00
6	4-Chloromethyl-2-(Amino methyl) Thiazole Hydrochloride (DMATA/Ni4)	1000.00
7	Iohexol	1000.00
8	Pregabalin	500.00
9	Atrovastatin Calcium	500.00
10	Gemcitabin HCl	500.00
	Total	17500.00

CONSOLIDATED LIST OF PRODUCTS WITH CAPCITY AFTER EXPANSION

S.No	Product	Intermediate Quantity in Kg/Month	After Expansion Finish Product Quantity in Kg/Month
1	Hydantoin		3000.00
2	Cyclohexanone Tetra Propionic Acid (T4)		2000.00.

3	2-Phenyl Benzimidazole-5-Sulphonic acid (PBSA)		1000.00
4	4-Chloromethyl-2-(Amino methyl) Thiazole Hydrochloride (Ni4)		500.00
	1) N,N - Dimethyl Amino Thio Acetamide Hydrochloride (DMATA HCl)	356	
5	Ethyl Hexyl Triazone (EHT)		1000.00
	1) 2-ethylhexyl 4-aminobenzoate (Stage -2)	1066	
6	Piractone Olamine (PO)		3000.00
	1)Methyl-3-methylbut-2-enoate (Stage -1)	1950	
	2)Methyl(2E)-3,7,9,9-tetra methyl-5-oxodec-2-enoate (Stage -2)	4030	
	3)Stage -3 ((4-methyl-6(2,4,4-trimethylpentyl)pyran-2-one))	3180	
7	Para Isopropoxy Ethyl Benzoate (PIPEB)		1000.00
	1)Stage -1 (Ethyl Paraben)	938	
8	Diethylhexyl Butamido Triazone (HEB)		1000.00
	1) 4-Nitrobenzoyl chloride (stage-1)	1128	
	2)N-tert-butyl-4-nitrobenzamide (stage-2)	410	
	3) Dichloro butamidotriazine (Stage -IV) (monamide)	520	
	4) 2-ethylhexyl-3-aminobenzoate (Side Chain)	764	
9	2-Phospho-L-Ascorbic Acid Trisodium salt (SAP)		3000.00
	1) 2-Phospho-L-Ascorbic Acid (SAP Crude)	10000	
10	Styrene Phosphonic Acid (SPA)		8000.00
11	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (Tinosorb-S)		4000.00
	1) 2,4-Dichloro-6-(4-Methoxyphenyl)-1,3,5-Triazine (Stage -1)	1672	
	2) Bis-(2,4-Dihydroxy Phenyl)-6-(4-Methoxy Phenyl)-1,3,5-Triazine (Stage -2)	2632	
12	5-Butyl Benzotriazole (5 BBT)		2000.00
	1)Stage -IV (4-Butyl OPDA)	2111	
13	Ketorolac Tromethamine		800.00
14	Bis (2,4,6 -Trimethyl Benzoyl) Phenyl Phosphine Oxide		1000.00
15	Chlorantraniliprole		3000.00
	1)3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxylic acid	1485	
	2)2-Amino-5-chloro-3,N-dimethyl benzamide	2160	
16	Pinaxaden		3000.00
	1). 2 (2,6-diethyl-4-methylPhenyl) propane diamide	2429	
	2)Hexahydro-1,4,5-oxadiazopane Dihydrochloride	2000	
17	Cyantraniliprole		2000.00
	1)3-Bromo-1-(3-Chloro-2-pyridinyl)-1H- pyrazole-5-carboxylic acid	2000	
	2)2-Amino-5-cyano-N, 3-dimethyl benzamide (AC/ACB)	1314	
18	Zinc Pyrithrion (ZPTO)		2000.00
19	5-Chloro Indanone		3000.00
20	2,2'-Methylenebis[6-(2H-benzotriazol-2-yl)-4-		1000.00

	(1,1,3,3tetramethylbutyl)phenol] (Tinosorb-M)		
	1).2-Diazoyl-2-nitrophenyl-4-Octylphenol	652	
	2).6-(2-H-Benzothioazo-2-yl)4(2,4,4-Trimethyl)Pentan-2-yl)Phenol	545	
21	2,5-bis(5-Tertiary Bytyl-2-benzoxazolyl)Thiophene		1000.00
	1).Thiophene -2,5-Dicarboxylic acid	416	
22	Custom Synthesis of Organic Compound From Pilot Plant		500.00
	Total(Worst Combination of any five Products at any given Point of time)		21000.00

LIST OF BY-PRODUCTS

S. No	Name of the Product	Name of the By-Product	Quantity In Kg/Day
1	2-Phenyl Benzimidazole-5-Sulphonic acid (PBSA)	Spent Suphuric acid	122.07
	5-Butyl Benzotriazole (5-BBT) and its intermediates 4-Butyl OPDA		309.67
		Total	431.74
2	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (TINOSORB-S) and its Intermediates	Aluminium chloride Solution	102.13
	Piractone Olamine (PO) and its Intermediate Pyran		635.67
		Total	1601.28
3	4-Chloromethyl-2-(Amino methyl) Thiazole Hydrochloride (DMATA/Ni4)	Sodium Sulfide (Na_2S)	33.35
4	Styrene Phosphonic Acid (SPA)	HCL	1000

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

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

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

1. Establish with layout plan the adoption of GMP for manufacturing your products supported by P & ID.
1. Sketch the location of the additional infrastructure in the plan of the existing industrial site.
2. Give the details of disposal of debris generated during expansion.
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. 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.
5. Provide the solvents storage plan with quantity as per standard norms highlighting any special precautions adopted for storage.
6. Evaluate and present the quantity and quality of solid and gaseous waste generated and their scheme of disposal.
7. Evaluate and present the existing and proposed water balance based on expansion.
8. For the worst case scenario, evaluate and present the quantity and characteristics of effluent discharged and their scheme of disposal through ETP.
9. Describe the measures proposed for in-house recovery of solvents mentioning the efficiency of recovery.
10. 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.
11. Present the scheme proposed for separation of high TDS effluent and its treatment & disposal through MEE used, justifying the stages and design parameters.
12. Evaluate the hydrogenation process (if adopted) and give a detailed description of the safety measures and precautions taken.
13. 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.
14. Scheme to develop thick green barrier all along the boundary of the project site.

Accordingly the ToRs were issued vide letter dated: 21-2-2019.

The proponent has submitted the EIA report vide letter dated:18-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The proponent was invited for EIA appraisal. The proponent remained absent and submitted a letter during the meeting requesting to consider their subject in forth coming meeting.

Hence the committee decided to defer the appraisal.

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

228.3 Proposed Bulk Drugs and Drug Intermediates manufacturing by replacing existing herbal extract products Project at Plot Nos.282, 283 & 284 of Kolhar

Industrial Area, Nizampur Village, Bidar Taluk & District By M/s. Sreevari Natural & Dairy Products (SEIAA 48 IND 2018)

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		SREEVARI NATURAL & DAIRY PRODUCTS M. Chaitanya Partner Reg. Address: 8-3-658/7, Jayaprakash Nagar, Yallareddyguda, Khairatabad, Hyderabad, Telangana – 500 073
2	Name & Location of the Project		Sreevari Natural & Dairy Products Plot Nos.: 282, 283 & 284, KIADB Road No.: 14, Kolhar Industrial Area, Bidar, Karnataka State – 585 403
3	Co-ordinates of the Project Site		Latitude: 17° 54' 4.60" N Longitude: 77° 26' 59.83" E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Water body/Lake near Bellura village – 1.81 Km (SE) Andur Lake – 4.22 Km (WNW) Water body/Pond near Bellura village – 1.91 Km (SE) Water body/Pond near Andur vadi village – 6.68 Km (WNW) Lake near Naubad village – 5.45 Km (NE) Lake near Mahamdapur village – 9.37 Km (North)
	b.	Distance from Protected area notified under wildlife protection act	None within 10 km radius
	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		Manufacturing of Bulk drugs & Drug Intermediates by replacing existing herbal extract products
7	Plot Area (Sq. m)		8449.00
8	Built Up area (Sq. m)		2293.10
9	Component of developments		Construction of MEE, ETP, Coal yard, Cooling Tower, additional Green belt development and others
10	Project cost (Rs. in Crores)		4.00 Crores for proposed project

Sl. No	PARTICULARS		INFORMATION
11	Details of Land Use		
	a.	Ground Coverage Area	2293.10 Sq. m
	b.	Kharab Land	---
	c.	Internal Roads	1911.58 Sq. m
	d.	Paved area	--
	e.	Parking	--
	f.	Green belt	3181.04 Sq. m
	g.	Open area	1063.28 Sq. m
	h.	Total	8449.00 Sq. m
12	Products and By- Products with quantity (enclose as Annexure if necessary)		List of 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
16	Fly ash production, storage and disposal details whereas coal is used as fuel		Proposed Project generating – 4.2 TPD of Fly ash from 3.0 TPH Coal Fired Boiler 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 given 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 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

Sl. No	PARTICULARS		INFORMATION	
	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 Supply	
	b.	Total Requirement of Water in KLD	Fresh	59.53
			Recycled	24.77
			Total	84.30
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	57.03
			Recycled	24.77
			Total	81.80
	d.	Requirement of water for domestic purpose in KLD	Fresh	2.50
			Recycled	--
			Total	2.50
	e.	Waste water generation in KLD	Industrial effluent	28.87
			Domestic sewage	2.00
			Total	30.87
	f.	ETP/ STP capacity	MEE System Capacity: 30 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 & Boiler.	
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 Set, Fugitive Emissions.	
	b.	Composition of Emissions	Boiler Emissions: Particulate Matter, SO_2 & NO_x Process Emissions: CO_2, H_2, O_2, NH_3, SO_2, N_2 & HCl are liberated from the process	
	c.	Air pollution control measures proposed and	Utilities Emissions Boilers: Cyclone separators and bag filters with suitable	

Sl. No	PARTICULARS		INFORMATION
		technology employed	stack height of 30m will be installed for controlling the Particulate emissions. Process Emissions HCl and NH_3 emissions from the reactor will be connected to multi stage scrubbers with suitable scrubbing liquid to scrub the gases effectively with water / caustic lye/ dilute HCl based on the nature of the gas. H_2 will be diffused by using Nitrogen through flame arrestor. CO_2, O_2 and N_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 vapor from the reactor, receiver and Tank 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 Boiler, Reactors, DG Set, 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. Green Belt Development.
25	WASTE MANAGEMENT		

Sl. No	PARTICULARS		INFORMATION	
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	0.1 TPD (Domestic waste)
			Non- Biodegradable	4.2 TPD (Ash from boiler)
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Hazardous & Solid waste 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: Sent to KSPCB Authorized agencies.	
26	Risk Assessment and disaster management		Details will be provided in EIA Report.	
27	POWER			
	a.	Total Power Requirement in the Operational Phase with source	500 KVA Source: Karnataka Power Corporation Limited (KPCL).	
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Existing: 1 No. Capacity: 62.5 KVA Proposed: 2 Nos. Capacity: 250 KVA & 320 KVA Total: 3 Nos. 1 x 62.5 KVA, 1 x 250 KVA & 1 x 320 KVA	
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Coal: 12 TPD for Coal fired boiler Diesel: 141 LPH for D. G. Sets Diesel: 25 LPH for TFH	
	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 & 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 meeting to provide clarification/additional information.

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

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

1. 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. Evaluate the hydrogenation process (if adopted) and give a detailed description of the safety measures and precautions taken.
15. 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.
16. Explore the possibility of replacing Raney nickel catalyst with Pt/C Catalyst.

Accordingly the ToRs were issued vide letter dated 21-2-2019.

The proponent has submitted the EIA report vide letter dated: 25-6-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the 228th meeting held on 6-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Prefeasibility report, EIA Report and clarification/information provided during the meeting.

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

1) Feasibility of solar thermal collectors for generation of heat and steam to be submitted.
2) Risk modeling scenarios for different solvents to be reworked including blast, flaring and vapour cloud to be submitted.
3) Undertaking for using briquettes fuel instead of coal may be submitted as committed by the proponent.
4) Fly ash handling and storage details to be worked out and submitted.
5) Scheme to dispose of hazardous waste within the stipulated period may be detailed and submitted.
6) The liberation of oxygen in chemical reactions to be checked and corrected.
7) Pollution load table to be reworked and submitted.
8) Solvent storage tanks layout to be reworked and submitted.
9) The layout plan with additional glass lined reactors as per GMP to be worked out and submitted.
10) Hydrogen sensors location to be marked and submitted as per guidelines.

Action: Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

228.4 Proposed Establishment of Manufacturing unit for Biologicals, Antibodies & its Derivatives and Integrated Biopharmaceutical Formulations unit for Antibodies, Derivatives, Proteins, Peptides & Biologicals Project at Plot

number 531 & 532 A of KIADB Industrial Area in Belur Village, Dharwad Taluk & District by M/s. Shilpa Medicare Limited(SEIAA 8 IND 2018)

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Mr. Vinay Konaje Business Head- Biologicals, Shilpa Medicare Limited, NavDisha, STEP Building, BVBCET, Vidyanagar, Hubli 580031, Karnataka, India.
2	Name & Location of the Project		Shilpa Medicare Limited Plot 531, 532A KIADB Industrial Area in Belur Village, Dharwad – 580011.
3	Co-ordinates of the Project Site		Project site lays at Latitude 15°30'19.46" N Longitude 74° 54'17.27" E
4	Environmental Sensitivity		
	a.	Distance from Nearest Lake/ River/ Nala	Kelgere Lake 8.6 KM in South East direction
	b.	Distance from Protected area notified under wildlife protection act	-
	c.	Distance from the interstate boundary	-
	d.	whether located in critically / severally polluted area as per the CPCB norms	-
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Sl. No. 5(f) of EIA notification 2006 and category 'B' project.
6	New/ Expansion/ Modification/ Product mix change		New
7	Plot Area (Sqm)		44200 SQM
8	Built Up area (Sqm)		13064.79 SQM
9	Component of developments		Manufacturing & formation units for Biologicals, Antibodies and Its Derivatives and other allied facilities.
10	Project cost (Rs. In crores)		For Phase -1 Project Rs. 152 Crores (One Hundred fifty-two crores only) i. Plant & Machinery – 60 Crores ii. Civil/HVAC/Clean room – 60 Crores iii. Utilities – 32 Crores. iv. Land value– a) Plot 531 - Rs 61.99 lakhs b) Plot 532A - Rs 403.51

			Lakhs Phase 2 project cost is Rs. 150 Crores.
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	4460.34
	b.	Kharab Land	-
	c.	Internal Roads	-
	d.	Paved area	-
	e.	Parking	-
	f.	Green belt	29358.33 (green belt and future expansion)
	g.	Others Specify	-
	h.	Total	-
12	Products and By- Products with quantity (enclose as Annexure if necessary)		The total capacity of production from Phase-1 & Phase-2 are as under; **Manufacturing facility** 1. Phase 1 – 36 kg per month of formulated, filled product @ 4 batches/month 2. Phase 2 – 108 kg per month of formulated, filled product @12 batches/month **Formulation Unit** **1. Vials** Phase – 1: 3 million per annum Phase – 2:10 million per annum **2. Injectable Pens and Prefilled syringes** Phase – 1: 8 million per annum Phase – 2: 20 million per annum
13	Raw material with quantity and their source:		
	1.1 Raw Material Requirement Acids, bases are used in buffer preparation, are store in corrosives & acids safety cabinets in cool dry conditions until dispensing. Wet scrubber exhaust is connected to each such cabinets to ensure safety. List of raw materials uses in the process and quantity given in table 3.4 and raw material required for quality control analysis is given in table 3.5. raw material requirement for filtration and separation is given in table 3.6 Other chemicals used in the industry are Ethanol, Methanol, IPA in 500ml, 5L & 10 L plastic cans for sanitation purpose only. Usage per month may be around 30-50L. These chemicals will be stores in cold room. The cold room are equipped with redundant cooling unit and alarms for any breakdown. This ensures that at no point these items reach even the temperature of the material with lowest flashpoint. Hydrogen peroxide is used as fumigant for clean room fumigation. Table 3.4 Raw material requirement **Fermentation Material Requirements / Batch**		

Sr. No.	Media/Chemical Name	Quantity required per batch Kg
1	Aqueous cell culture basal media	16.848
2	Aqueous cell culture feed media A	9.140
3	Aqueous cell culture feed media B	7.603
4	Aqueous cell culture feed media C	46.939
5	Dexamethasone-10 mM for cell consumption	0.169
6	Di sodium hydrogen phosphate heptads hydrate	0.809
7	Glucose energy source	8.424
8	Glutamine-200m M energy source	4.114
9	Hydrochloric acid 5N for media pH control	56.160
10	Hygronycin for cell consumption	0.014
11	pH buffer – 10 pH	0.281
12	pH buffer- 4 pH	0.281
13	pH buffer – 7 pH	0.281
14	Sodium chloride buffer	4.493
15	Sodium hydroxide 5M – for media pH control	11.232
16	Manganese Sulphate trace for cell consumption	0.047
17	Potassium chloride buffer	0.112
18	Potassium di hydrogen Ortho-phosphate buffer	0.135
	Total	**167.081**

Table 3.5 Raw material requirement for quality control

Quantity Control Material Requirements /Batch		
S.No	**Consumables**	**Quantitity required per batch**
1	Acetic acid glacial in Ltrs	0.94
2	Arginine Hydrochloride extrapure CHR in Kg	4.14
3	Citric acid in Kg	7.13
4	Di-sodium hydrogen phosphate heptahydrate in Kg	4.22
5	Ethanol in Ltrs	0.19
6	Ethylene diamine tetra acetic acid disodium salt dihydrate AR in Kg	0.47
7	Isopropyl alcohol in Ltrs	2.34
8	Ortho Phosphoric acid in Ltrs	0.19
9	Polysorbate 80 in Ltrs	0.05
10	4% Sodium hypochlorite Solution in Ltrs	9.19
11	Sodium acetate Trihydrate in Kg	0.19
12	Sodium chloride in Kg	27.19
13	Sodiumcitrate Tribasic Dihydrate in Kg	23.44
14	Sodium hydroxide in Kg	21.38
15	Sodium phosphate, monobasic anhydrous in Kg	1.88
16	Sucrose extrapure AR in Kg	0.66
	TOTAL	**103.6**

Table 3.6 Filtration and Separation material requirement

Filtration And Separation Material Requirements / Batch		
Sl. No	**Consumables**	**Quantitity required per month**
1	Acetic acid glacial in Ltrs	6.42
2	Arginine Hydrochloride extrapure CHR in kg	28.38
3	Citric acid in kg	48.70
4	Di-sodium hydrogen phosphate heptahydrate in kg	28.89
5	Ethanol in Ltrs	12.84
6	Ethylene diamine tetra acetic acid disodium salt dihydrate Ar in kg	3.21
7	Isopropyl alcohol in Ltrs	16.05
8	Ortho Phosphoric acid in Ltrs	1.28
9	Polysorbate 80 in Ltrs	0.33
10	4% Sodium hypochlorite Solution in Ltrs	62.92
11	Sodium acetate Trihydrate in kg	1.28
12	Sodium chloride in kg	186.18
13	Sodiumcitrate Tribasic Dihydrate in kg	160.50
14	Sodium hydroxide in kg	146.38
15	Sodium phosphate, monobasic anhydrous in kg	12.84
16	Sucrose extrapure AR in kg	4.49
	TOTAL	**720.69**

14	Mode of transportation of Raw material and storage facility	Mode of transportation of Raw material is by road ways and Dedicated storage facilities for Raw materials (ware housing) & finished products (cold storage area) will be provided. These chemicals will be stores in cold room as and when requires will dispense the material using PPE's. Acids, bases are kept in Corrosives & Acids safety cabinets in cool dry conditions until dispensing.
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 Prefeasibility Report, chapter 3, section 3.5

18	Details of Plant and Machinery with capacity/ Technology used		Detailed in Prefeasibility Report, chapter 3, section 3.5	
19	Details of VOC emission and control measures wherever applicable		Detailed in Prefeasibility Report, section 3.11	
20	WATER			
	I.	Construction Phase		
	a.	Source of water	Borewell/ KIADB supply	
	b.	Quantity of water for Construction in KLD	20 KL/day	
	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	Borewell/ KIADB supply	
	b.	Total Requirement of Water in KLD	Fresh	**101.88 KLD**
			Recycled	
			Total	**101.88 KLD**
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	**25.88 KLD(process)+ 32 KLD(utilities)**
			Recycled	
			Total	**25.88 KLD(process)+ 32 KLD(utilities)**
	d.	Requirement of water for domestic purpose in KLD	Fresh	**30 KLD**
			Recycled	
			Total	
	e.	Waste water generation in KLD	Industrial effluent	**24 KLD**
			Domestic sewage	**30 KLD**
			Total	**54 KLD**
	f.	ETP/ STP capacity	STP capacity – 35 KLD ETP capacity 50 KLD phase-1 For Phase -2 capacity increases from 50 KLD to 150 KLD.	
	g.	Technology employed for Treatment	M/s. Shilpa Medicare Ltd is proposing to setup a MEE based treatment system for the approximately 186621.5 Lt per batch or 25 KLD (Total capacity of ETP i.e. MEE unit – 50 KLD) of treated process effluent discharge. Detailed in PFR chapter 3, section 3.8	
	h.	Scheme of disposal of excess treated water if any	The regenerated condensate water will be used for green belt development and excess water to	

			recharge the ground water around the borewell. Concentrated salt cake that may be obtained will be sent for incineration/landfill. SML will use the same facility for treatment of any effluent from its formulation unit since the nature of effluents are the same and the capacity of the plant will suffice for both units. Detailed in PFR chapter 3, section 3.8	
21	Infrastructure for Rain water harvesting		-	
22	Storm water management plan			
23	Air Pollution			
	a.	Sources of Air pollution	Detailed in chapter 3, section 3.11 of PFR report.	
	b.	Composition of Emissions	Detailed in chapter 3, section 3.11 of PFR report.	
	c.	Air pollution control measures proposed and technology employed	Detailed in chapter 3, section 3.11 of PFR report.	
24	Noise Pollution			
	a.	Sources of Noise pollution	Detailed in chapter 3, section 3.12 of PFR report.	
	b.	Expected levels of Noise pollution in dB	Within the limits prescribed for industrial area.	
	c.	Noise pollution control measures proposed	Detailed in chapter 3, section 3.11 of PFR report.	
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	Detailed in chapter 6, section 6.8 of PFR report
			Non- Biodegradable	
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	There is no hazardous waste generation from the process.	
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	-	
26	Risk Assessment and disaster management		-	
27	POWER			
	a.	Total Power Requirement in the Operational Phase with source	Total power requirement to the proposed project is 2000 KW for Phase 1, Sourced from Karnataka State Electric Board/HESCOM.	

	. .		For Phase 2 – power requirement will be 3000 KW.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	Three backup gensets of 750 KVA capacity is proposed in Phase 1. For Phase 2, power requirement will be 3000 KW to this two DG sets of 1500 KVA capacity will provide.
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Detailed in chapter 3, section 3.11 of PFR 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	-
	b.	Internal Road width (RoW)	Detailed in Plant layout plan
29		Any other information specific to the project (Specify)	-

The proponent and Environmental Consultant attended the 196th meeting held on 16th & 17th April 2018 to provide required information/clarifications.

The committee appraised the proposal considering the information provided in the statutory application-Form I, pre-feasibility report, proposed ToRs and clarification/additional information provided during the meeting. The committee decided to recommend the proposal to SEIAA for issuing of Standard ToRs. The committee also prescribed the following additional ToRs.

1) Obtain clearance from the Institutional Bio-hazardous committee before taking up appraisal.
2) Obtain clearance from DBT(Dept. of Bio-technology), GoI for using GMO(Genetically modified organism) before taking up appraisal.
3) Obtain clearance from DCGI (Drug Control General of India), GoI for all the products before taking up appraisal.
4) Scheme for safe disposal of Bio Hazardous waste tobe detailed including scheme B in case of malfunctioning of inhouse facility.
5) Scheme for odour management.
6) A certificate from KIADB stating that this type of industry is permitted in their layout.
7) Comparative study of single use verses multi use/reuse of raw material in their manufacturing process with the focus on fermentation.
8) Estimate the total carbon footprint and list out the measures to reduce/offset the carbon foot print may be detailed.
9) Scheme to develop atleast 15 meter wide green belt with indigenous broad leaved tree species all round the project area.

Accordingly the ToRs were issued vide letter dated: 17-05-2018.

The proponent has submitted the EIA report vide letter dated: 28-6-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended 228th meeting held on 6-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, prefeasibility report, EIA Report and clarification/information provided during the meeting.

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

1) Scheme to reduce the storage capacity for methanol from 20 KLD to 5 KLD.
2) Furnish the list of proposed antibodies , biologicals and its derivatives.
3) Land use land cover map of the study area using latest high resolution satellite imagery to be submitted.
4) Enhancement of storage capacity of surface water may be relooked into keeping in view all the surface drain water to be stored and reutilized.
5) Scheme to utilize cotton waste and sugarcane trash as biomass briquette instead of groundnut waste as stated by the proponent.
6) Feasibility of solar thermal collectors for generation of heat and steam to be submitted.

Action: Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

Fresh Subjects:

228.5 Proposed Development of Commercial building (IT/BT) at Plot No.124, EPIP I.A, Whitefield of Hoodi village, K.R Puram, Hobli, Bengaluru East Taluk **by M/s. Chaitanya Properties Private Limited (SEIAA 84 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Mr. D.A. Srinivas M/s. Chaitanya Properties Pvt Ltd. #17, Sankey road, Bangalore- 560020
2	Name & Location of the Project	M/s. Chaitanya Properties Pvt Ltd. At Plot No. 124 EPIP I.A., Whitefield of Hoodi

		Village, KR Puram Hobli, Bengaluru East Taluk.
3	Co-ordinates of the Project Site	Latitude: 12° 58'32"N Longitude: 77°43'09"E
4	EnvironmentalSensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Kundalahalli lake – 0.4 km (S) Nallurahalli lake- 1.55 km (E) Hoodi lake- (1.05) km (N) Seetharamapalya lake- 0.8km (NW)
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.	--
5	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Development of Commercial Building (Office)
b.	Residential Township/ Area Development Projects	Not Applicable
6	Plot Area (Sqmt)	16,188 Sqmt
7	Built Up area (Sqmt)	26,076.84 Sqmt
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Building Configuration : UB+G+12 UF Max height – 56m
9	Number of units in case of Construction Projects	1 unit
10	Number of Plots in case of Residential Township/ Area Development Projects	Plot no. 124 EPIP I.A., Whitefield
11	Project Cost (Rs. In Crores)	70Crores
12	Recreational Area in case of Residential Projects / Townships	Not Applicable
13	Details of Land Use (Sqmt)	
a.	Ground Coverage Area	1584.68 Sqmt
b.	Kharab Land	No
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	1671.96 Sqmt
d.	Internal Roads	3713.33 Sqmt
e.	Paved area	--
f.	Others Specify	Open spaces– 4866.81 Sqmt

g.	Parks and Open space in case of Residential Township/ Area Development Projects	1,671.96 Sqmt	
h.	Total	16,188 Sqmt	
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	Not Applicable since it is new project	
b.	Total quantity of Excavated earth (in cubic meter)	3,800 Cum	
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	3,800 Cum completely utilised within the project site	
d.	Excess excavated earth (in cubic meter)	There is no excess excavated earth	
e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	Backfilling, foundation, road area and for gardening	
15	WATER		
I.	Construction Phase		
a.	Source of water	STP treated water for construction purpose External tanker water for domestic purposes	
b.	Quantity of water for Construction in KLD	5 KLD	
c.	Quantity of water for Domestic Purpose in KLD	2 KLD	
d.	Waste water generation in KLD	1.7 KLD	
e.	Treatment facility proposed and scheme of disposal of treated water	will be treated in mobile STP	
II.	Operational Phase		
a.	Total Requirement of Water in KLD	Domestic	53 KLD
		Recycled	42 KLD
		Total	95KLD
b.	Source of water	KIADB	
c.	Waste water generation in KLD	81 KLD	
d.	STP capacity	85 KLD	
e.	Technology employed for Treatment	Sequencing Batch Reactor (SBR) Technology	
f.	Scheme of disposal of excess	Not found will be managed within the site	

	treated water if any	
16	Infrastructure for Rain water harvesting	
a.	Capacity of sump tank to store Roof run off	2 X 20 cum
b.	No's of Ground water recharge pits	35 no's tube wells
17	Storm water management plan	• Land is gently sloping terrain and sloping towards South direction. • Separate and independent rainwater drainage system will be provided for collecting rainwater from terrace and paved area, lawn & roads. • Rainwater collection tank of capacity 2 X 20cum is proposed which will be provided to collect the roof run off, which will be reused after prior treatment. • 35 number of tube wells will be provided to recharge the ground water within the site; excess runoff during the monsoon period finds its way to external storm water drain
18	WASTE MANAGEMENT	
I.	Construction Phase	
a.	Quantity of Solid waste generation and mode of Disposal as per norms	Quantity -5 kg/day Solid waste will be collected manually and handed over to local body for further processing
II.	Operational Phase	
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	Quantity - 212 kg/day Organic wastes will be segregated & collected separately and processed in organic waste converter Sludge generated from STP of capacity 10 kg/day will be reused as manure for greenery development purposes.
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	Quantity - 317 kg/day Recyclable waste will be given to the waste collectors for recycling for further processing.
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste oil generated from the DG sets will be collected in leak proof barrels and handed over to the authorized waste oil recyclers.
d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-Wastes will be collected & stored in bins and disposed to the authorized & approved KSPCB E-waste processors.
19	POWER	
a.	Total Power Requirement -Operational Phase	KIADB- 500 kW
b.	Numbers of DG set and capacity in	1 X 500 KVA

	KVA for Standby Power Supply	
c.	Details of Fuel used for DG Set	High speed.diesel fuel
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation devices such as Solar energy, CFL and LED lights, Copper wound transformer are proposed in the project. Overall energy saving is 20.5%
20	PARKING	
a.	Parking Requirement as per norms	Required = 400 no's, Provided = 400 no's
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	
c.	Internal Road width (RoW)	Approach road width – 8 m Internal road width is – 8 m Fire driveway – 8 m

The proponent was invited for the 228th meeting held on 6-8-2019 to provide required clarification. The proponent remained absent.

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

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

228.6 Proposed Residential Apartment Project "S V Grandur", at Sy.No.101/2 & 101/3, Kammasandra Village, Attibele Hobli, Anekal Taluk, Bangalore Urban District by M/s. S V Housing(SEIAA 92 CON 2019)

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Sri S.VENKATESH Managing Partner M/s. S V HOUSING S/o Late Sri.Subramani No.89, 3rd Floor, V.M.COSMA, Karthiknagar, Marthahalli - Outer Ring Road, Bangalore – 560037.
2	Name & Location of the Project	Proposed Residential Apartment Project, "S V Grandur", by M/s. S V HOUSING at Sy No. 101/2 & 101/3, Kammasandra Village, Attibele Hobli, Anekal Taluk, Bangalore Urban District.
3	Co-ordinates of the Project Site	Longitude: 77°41'9.60"E Latitude: 12° 50'9.60"N
4	Environmental Sensitivity	

	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Kammasandra Lake- 689 m (NE) Tertiary Nala is inside the project site in west side boundary- 9m Buffer left
	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.	There is no lake within 75 meter from the site boundary.
5	Type of Development		
	a.	Residential group housing/ Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	ResidentialApartment
	b.	Residential Township/ Area Development Projects	No
6	Plot Area (Sqm)		13,556.78sq.m
7	Built Up area (Sqm)		41,782.32 sq.m
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]		Construction of Residential Apartment project comprising of 4 Blocks, Block A, B, C & D, each having 1 Basement + Ground Floor + 12 Upper Floors + Terrace Floor.
9	Number of units in case of Construction Projects		Total Number of Units is 284Nos.
10	Number of Plots in case of Residential Township/ Area Development Projects		-
11	Project Cost (Rs. In Crores)		82 Crores
12	Recreational Area in case of Residential Projects / Townships		Playground area - 542.5sq.m. And Senior Citizen allocated area - 474.20Sq.m. Park area =1404.48Sq.m. (10.36% of Net plot area);
13	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	2,433.05sq.m (17.95%)
	b.	Kharab Land	Nil
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	4,473.74sq.m (33.00%)
	d.	Internal Roads	6,649.99 sq.m.(49.05%)
	e.	Paved area	-
	f.	Others Specify	-
	g.	Parks and Open space in case of	NA

		Residential Township/ Area Development Projects	
	h.	Total	13,556.78sq.m.
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	No demolition is involved.
	b.	Total quantity of Excavated earth (in cubic meter)	28,610.60cu.m.
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	28,610.60cu.m.
	d.	Excess excavated earth (in cubic meter)	Nil
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	No disposal
15	WATER		
	I.	Construction Phase	
	a.	Source of water	From Neårby treated water suppliers
	b.	Quantity of water for Construction in KLD	100 KLD
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD
	d.	Waste water generation in KLD	8 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	The sewage generated during the construction phase will be treated in the Mobile STP
	II.	Operational Phase	
	a.	Total Requirement of Water in KLD	Fresh: 41.79 Recycled: 42.70+63.90=106.6 Total: 148.39
	b.	Source of water	Gram Panchyath
	c.	Waste water generation in KLD	140.97KLD
	d.	STP capacity	160 KLD
	e.	Technology employed for Treatment	SBR Technology
	f.	Scheme of disposal of excess treated water if any	No Disposal. The treated water will be reused for toilet flushing, landscaping in the project

			site, avenue plantation and Reuse after treating with ultrafiltration and reverse osmosis
16	Infrastructure for Rain water harvesting		
	a.	Capacity of sump tank to store Roof run off	131 cu.m.
	b.	No's of Ground water recharge pits	67 Nos.
17	Storm water management plan		The storm water from the site will be collected by rainwater harvesting system and will be used for recharging the ground water
18	WASTE MANAGEMENT		
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	No of labours = 80 Nos. Per capita of waste generated = 0.4 kg/day Separate collection bins will be used for organic and inorganic waste. Organic waste will be converted in organic convertor. Inorganic solid waste will be handed over to authorized recyclers.
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	340.80kg/day. Biodegradable waste will be converted in organic convertor.
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	227.20kg/day. Non- Biodegradable waste will be handed over to authorized recyclers
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Nil
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-waste generation will be very less
19	POWER		
	a.	Total Power Requirement - Operational Phase	1500 kVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 X 1500 kVA
	c.	Details of Fuel used for DG Set	HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	•Energy saved by using Solar water Heater : 50,000 kWH/ Year.....(a) • Solar Power Generation : In non-monsoon season 200kWH x 30 x 8 Months = 48,000kWH • In monsoon season 100kWH x 30 x 4

			Months = 12,000 kWH • Total SPV Power Generation in a year = 0.60 L kWH / Annum.....(b) • Total Solar Energy utilization (Energy saving using solar heater and solar PV) in a year = (a)+(b)= 0.50 + 0.6 L KWH = 1.1 L / Annum .....(c) • Total energy savings = 25.11%
20	PARKING		
	a.	Parking Requirement as per norms	One car spacing for 1 units as the floor area is between 50 sq.m. to 225 sq.m= 284+10% visitors Parking required is 284+29cars= 313Nos Total car Parking required as per NBC= 315 Parking Provided is 315Ecs which is as Per NBC and MoEF Norms
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Hosur Road-LOS - B
	c.	Internal Road width (RoW)	8.0m

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 228th meeting held on 6-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form 1, Form-1A, Conceptual Plan and clarification/additional information provided during the meeting. As per the village survey map there is one nala on the western side of the project site for which the proponent has stated that he has left 9 meter buffer zone as stipulated by Anekal local planning area authority. As per the records earlier plan was sanctioned by Anekal local planning area for a BUA of 17,448 sqmts for which EC was not mandated. The proponent has also stated that construction has come up to 1st floor. Earlier proposal was for building Basement, Ground and three upper floors (B+G+3UF). Now this proposal is for expansion involving both horizontal and vertical. The horizontal expansion is mainly due to increase in the basement area and vertical expansion is due to taking up the project up to Basement, Ground and 12 Upper floors(B+G+12UF) instead of Basement, Ground and three upper floors (B+G+3UF).

In order to reduce fresh water demand the proponent has stated that he is going for triple line plumbing supplying tertiary level treated sewage water to domestic purpose. He has also stated that in order to utilize the entire rain water both from terrace and open surface he will go for separate storage tanks which reduces the demand for fresh water considerably.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance subject to condition if the project is located within 10 KM from National Parks, Sanctuaries, Biosphere reserves, migratory corridors of wild animals the project proponent shall submit the map duly authenticated by Chief Wild life warden showing these features vis-a-vis the project localities and the recommendation or comments of the Chief Wild life warden thereon to the authority.

The committee also imposed the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
5. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
6. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.7 Proposed Residential Apartment Project at Sy.No.24/2, 25/2, 27/3 & 27/4P, Kaggalipura Village, Uttarahalli Hobli, Bangalore South Taluk, Bangalore Urban District **by M/s. Sri Sai Associates(SEIAA 93 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	M/s. Sri Sai Associates #46/A. 1st Main, 3rd Phase J P Nagar, Bangalore - 560078 Karnataka, India
2	Name & Location of the Project	Proposed Residential Apartment Project by M/s. Sri Sai Associates at Sy No. 24/2, 25/2, 27/3 & 27/4P Kaggalipura Village, Uttarahalli Hobli, Bangalore South Taluk, Bangalore Urban District
3	Co-ordinates of the Project Site	Longitude: 77°30'4.26"E Latitude: 12°47'19.66"N
4	Environmental Sensitivity	
	a. Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala	Puttareddypalya Lake - 0.35kms (NW) Tertiary Nalas are inside the project site

		etc.,)	for which 9 m buffer has been left.
	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.	There is no lake within 75 meter from the site boundary. Tertiary Nalas are inside the project sitefor which 9 m buffer has been left.
5	Type of Development		
	a.	Residential group housing/ Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	ResidentialApartment
	b.	Residential Township/ Area Development Projects	No
6	Plot Area (Sqm)		24,483.44sq.m
7	Built Up area (Sqm)		66,259.76sq.m
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]		Construction of Residential Apartment project comprising of 3 Buildings and a club house, 3 Buildings each having 1 Basement + Ground Floor + 12 Upper Floors + Terrace Floor with total of 558 units and Club House having Ground Floor + 3 Upper Floors + Terrace Floor.
9	Number of units in case of Construction Projects		Total Number of Units is 558Nos.
10	Number of Plots in case of Residential Township/ Area Development Projects		-
11	Project Cost (Rs. In Crores)		132Crores
12	Recreational Area in case of Residential Projects / Townships		Playground area – 892.5 sq.m. And Senior Citizen allocated area – 837.5 Sq.m (7.5% of Plot Area). Park area =2389 Sq.m. (10.36% of Net plot area)
13	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	4,721.46sq.m (19.56%)
	b.	Kharab Land	202.34 Sq.m
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	7,612.13sq.m (33.00%)
	d.	Internal Roads	10,733.46 (47.44%)
	e.	Paved area	-
	f.	Others Specify	-
	g.	Parks and Open space in case of	NA

		Residential Township/ Area Development Projects		
	h.	Total	23,067.05sq.m.	
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	No demolition is involved.	
	b.	Total quantity of Excavated earth (in cubic meter)	43,353.64cu.m.	
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	43,353.64cu.m.	
	d.	Excess excavated earth (in cubic meter)	Nil	
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	No disposal	
15	WATER			
	I.	Construction Phase		
	a.	Source of water	From Nearby treated water suppliers	
	b.	Quantity of water for Construction in KLD	50 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD	
	d.	Waste water generation in KLD	8 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	The sewage generated during the construction phase will be treated in the Mobile STP	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	80.38
			Recycled	85.68+125.55=211.23
			Total	291.56
	b.	Source of water	Gram Panchyath	
	c.	Waste water generation in KLD	276.98KLD	
	d.	STP capacity	315 KLD	
	e.	Technology employed for Treatment	SBR Technology	
	f.	Scheme of disposal of excess treated water if any	No Disposal. The treated water will be reused for toilet flushing, landscaping in the project site,	

			avenue plantation and Reuse after treating with ultrafiltration and reverse osmosis
16	Infrastructure for Rain water harvesting		
	a.	Capacity of sump tank to store Roof run off	255 cu.m.
	b.	No's of Ground water recharge pits	109 Nos.
17	Storm water management plan		The storm water from the site will be collected by rainwater harvesting system and will be used for recharging the ground water
18	WASTE MANAGEMENT		
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	No of labours = 100 Nos. Per capita of waste generated = 0.4 kg/day Separate collection bins will be used for organic and inorganic waste. Organic waste will be converted in organic convertor. Inorganic solid waste will be handed over to authorized recyclers.
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	669.60kg/day. Biodegradable waste will be converted in organic convertor.
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	446.40kg/day. Non- Biodegradable waste will be handed over to authorized recyclers
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Nil
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-waste generation will be very less
19	POWER		
	a.	Total Power Requirement - Operational Phase	1500 kVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 X 1500 kVA
	c.	Details of Fuel used for DG Set	HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	•Energy saved by using Solar water Heater : 50,000 kWH/ Year.....(a) • Solar Power Generation : In non-monsoon season 200kWH x 30 x 8 Months = 48,000kWH • In monsoon season 100kWH x 30 x 4

			Months = 12,000 kWH • Total SPV Power Generation in a year = 0.60 L kWH / Annum.....(b) • Total Solar Energy utilization (Energy saving using solar heater and solar PV) in a year = (a)+(b)= 0.50 + 0.6 L KWH = 1.1 L / Annum .....(c) • Total energy savings = 25.1%
20	PARKING		
	a.	Parking Requirement as per norms	One car spacing for 1 units as the floor area is between 50 sq.m. to 225 sq.m= 558+58% visitors Parking required is 558+58cars= 616Nos Car parking for Club house Area = 13 Nos Total car Parking required as per NBC= 627 Parking Provided is 627Ecs which is as Per NBC and MoEF Norms
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	NH 207-LOS - B
	c.	Internal Road width (RoW)	8.0m

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 228th meeting held on 6-8-2019 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 provided during the meeting. As per the village survey map there is one tertiary nala running on western side of project site and another nala on eastern side of the project site for which the proponent has stated that he has left 9 meter buffer zone as mandated by the Kanakapura local planning Area Authority. Also there is a pond on the southern side of the project site for which the proponent has stated that he has left 10 meter buffer zone from the boundary of the pond as mandated by the Kanakapura local planning area Authrity for the water bodies less than 40 Ha. area.

The proponent has also stated that he has left 3210 sqmts area for constructing 15 meter wide road as per the CDP plan which is cutting across the project site in the east-west direction.

In order to reduce fresh water demand the proponent has stated that he is going for triple line plumbing supplying tertiary level treated sewage water to domestic purpose. He has also stated that in order to utilize the entire rain water both from terrace and open surface he will go for separate storage tanks which reduces the demand for fresh water considerably.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance subject to condition if the project is located within 10 KM from National Parks, Sanctuaries, Biosphere reserves, migratory corridors of wild animals the project proponent shall submit the map duly authenticated by Chief Wild life warden showing these features vis-a-vis the project localities and the recommendation or comments of the Chief Wild life warden thereon to the authority. Also the norms for buffer zone as mandated in the Kanakapura Planning Area Authority shall be submitted to the Authority to justify the claim of the proponent for leaving 10 meter buffer zone from the water lake and 9 meter buffer from the natural nala.

The committee also imposed the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing by adopting sullage and sewage treatment separately.
5. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
6. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.8 Proposed Resort Development at Sy.Nos.3, 4, 5, 6, 8, 9, 10, 12, 13, 15/2, 17/2, 80/2, 80/6, 81 and 82, Dindagatta Village, Palya Hobli, Alur Taluk, Hassan **District by M/s. Rosetta Resorts and Holiday Homes(SEIAA 95 CON 2019)**

The proponent was invited for the 228th meeting held on 6-8-2019 to provide required clarification. The proponent remained absent by submitting a letter dated:1-8-2019.

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

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

228.9 Proposed Modification & Expansion of Office and Hotel Development at New Sy.No.47/6 (Old Sy.No.47/2) Udayagiri Village, Kasaba Hobli, Devanahalli Taluk, Bangalore North, Bengaluru by M/s. Brigade Hotel Ventures Limited(SEIAA 96 CON 2019)

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		M/s. Brigade Hotel Ventures Limited, 29th and 30th Floor, World Trade Centre, Brigade Gateway Campus, 26/1, Dr. Rajkumar Road, Malleswaram - Rajajinagar, Bengaluru - 560 055.
2	Name & Location of the Project		BRIGADE OFFICE AND HOTEL BUILDING New Sy. No. 47/6 (Old Sy. No. 47/2), Udayagiri Village, Anneshwara Gram Panchayat, Kasaba Hobli, Devanahalli Taluk, Bengaluru
3	Co-ordinates of the Project Site		13°12'43.88"N; 77°40'20.00"E
4	Environmental Sensitivity		
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Nala abutting West of the Project Site
	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.	Not Applicable
5	Type of Development		
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	4 Star Hotel consisting of 210 Keys, Office Space for IT/ITES, Restaurant, Banquet Hall, Food Court for Office and 20 Number of Service Apartments
	b.	Residential Township/ Area Development Projects	--
6	PIot Area (Sqm)		8,296Sq.m
7	Built Up area (Sqm)		31,714.45 Sq.m.(Existing) 36,835.48 Sq.m (Proposed Expansion)
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]		2 Basement + Ground Floor + 13 Upper Floors + Terrace Floor

9	Number of units in case of Construction Projects	4 Star Hotel consisting of 210 Keys, Office Space for IT/ITES, Restaurant, Banquet Hall, Food Court for Office and 20 Number of Service Apartments
10	Number of Plots in case of Residential Township/ Area Development Projects	Not Applicable
11	Project Cost (Rs. In Crores)	6.65 Crores
12	Recreational Area in case of Residential Projects / Townships	Not Applicable
13	Details of Land Use (Sqm)	

	a.	Ground Coverage Area	1525.74 Sq.m
	b.	Kharab Land	--
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	2737.68 Sq.m
	d.	Internal Roads	4,032.58 Sq.m
	e.	Paved area	
	f.	Others Specify	
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	--
	h.	Total	8,296 Sq.m
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	Not Applicable
	b.	Total quantity of Excavated earth (in cubic meter)	23,300 Sq.m
	c.	Quantity of Excavated earth proposed to be used in the Project site (in cubic meter)	23,300 Sq.m
	d.	Excess excavated earth (in cubic meter)	Nil
	e.	Plan for scientific disposal of excess excavated earth along	Not Applicable

		with Coordinate of the site proposed for such disposal.		
15	WATER			
	I.	Construction Phase		
	a.	Source of water	Treated water from Brigade Project "Brigade Orchards"located at about 9km from the proposed project.	
	b.	Quantity of water for Construction in KLD	10KLD	
	c.	Quantity of water for Domestic Purpose in KLD	20KLD	
	d.	Waste water generation in KLD	17KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Portable STP	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	179KLD
			Recycled	62KLD
			Total	241KLD
	b.	Source of water	Borewell, Rooftop Rainwater & Treated Water	
	c.	Waste water generation in KLD	217KLD	
	d.	STP capacity	220KLD x 1No.	
	e.	Technology employed for Treatment	Sequencing Batch Reactor Technology	
	f.	Scheme of disposal of excess treated water if any	Treated water will be used for toilet flushing, landscaping &Air-conditioning.	
16	Infrastructure for Rain water harvesting			
	a.	Capacity of sump tank to store Roof run off	1 no. of 120 cu.m capacity of Rainwater Harvesting sump to harvest 36 cu.m of Rooftop Rainwater	
	b.	No's of Ground water recharge pits	11 Nos.	
17	Storm Water Management plan		11 Infiltration Wells / Shafts of 0.15m Diameter & 20m Depth are proposed along the internal storm water drain. Quantity of Rooftop Rain water - 102cu.m Storm Water Drain of size 0.6m x 0.6m along the boundary of the project site	
18	WASTE MANAGEMENT			
	I.	Construction Phase		
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	20kg/day of solid waste shall be disposed through BBMP waste management contractors	
	II.	Operational Phase		

	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	371kg/day Organic Waste Converter
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	357kg/day Local Authorized Recyclers
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	500 kg/annum Authorized Agencies
	d.	Quantity of E waste generation and mode of Disposal as per norms	300 kg/annum Authorized Agencies
19	POWER		
	a.	Total Power Requirement - Operational Phase	5000KVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	(1000 KVA x 3 Nos.)+ (500 KVA x 4 Nos.)
	c.	Details of Fuel used for DG Set	Dual Fuel Mode; Low Sulphur High Speed Diesel (HSD) with Sulphur content less than 50ppm & Compressed Natural Gas (CNG)
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	a. Timer based External Lights b. Solar lighting (Street and Landscape) c. BEE Star rated electromechanical systems shall be used in the development d. Solar Water Heating systems for top 2 floor Service Apartments e. Use of Copper wound transformer f. Use of HF ballast for lighting g. Use of LED light fittings h. Building Orientation; Cross Ventilation;
20	PARKING		
	a.	Parking Requirement as per norms	240 Nos.
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	NH-7 towards Devanahalli – B NH-7 towards Bangalore City – B & C
	c.	Internal Road width (RoW)	6m

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 228th meeting held on 6-8-2019 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 provided during the meeting. The committee noted that this proposal is for modification and expansion of the earlier proposal for which EC was issued during 2011. The scope of the project earlier envisaged was for building a Hotel complex with 210 hotel rooms and other connected areas for running the hotel complex. Earlier the height of the building was restricted to 24 meters as per BIAAPA norms. Now the BIAAPA has clarified that the height restrictions is as per the Airport Authority norms which is 54 meters. Earlier FAR utilized was 2.75 as against the 3.0 permissible. Now the proponent has stated that he has utilized the permissible FAR of 3.0. This proposed project consists of 210 hotel rooms with 20 service apartments and also space for IT/ITeS. Now the total BUA is 36,835.48 sqmts as against 31,714.45 sqmts for which EC was issued earlier. Earlier the project was for 3B+GF+6UF as against the now proposed 2B+GF+13UF. Earlier space for parking provided was for 192 car park. Now this proposal provides for total of 240 Nos of car parking and the proponent has stated that this can be managed within the two basements now proposed by going for stack parking. As seen from the village survey map there are three nalas one on the western side of the project site and two on the eastern side of the project site. The proponent has also stated that the Govt. has acquired 13 guntas of land out of total area of 2 Acres 17 guntas and after which he has been left with 2 acres 4 guntas including 2 guntas of kharab land. In this acquisition process major portion of the nalas on the eastern side of the project site have been acquired and there is only 2 guntas of kharab land in the form of nala on the western side for which the proponent has stated that apart from the 3 meter buffer zone mandated by BIAAPA, he has left 19 meter extra width including 13 meter for set back and 6 meters for parks and open space. The proponent has also stated that actual construction has not yet been taken up except leveling of the ground.

The proponent has stated that he will rework the water balance chart for storing entire water generated from terrace area as well as paved and open area by constructing seperate storage tanks. He has also stated that he will change the HVAC from water cooled to air cooled for 100% of their load in order to reuse the 100 KLD saved from HVAC consumption and reduce the fresh water demand by going for triple line plumbing system.

As far as CER is concerned the proponent has stated that he will earmark Rs.1.50 crores to take up rejuvenation of Chikkasanai lake which is at a distance of 1.5 KM from the project site.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance subject to submission of following informations to the Authority.

1) Air cooled HVAC to replace water cooled HVAC to conserve water and reuse to reduce the fresh water demand for which revised water balance chart shall be worked out and submitted.

2) The water balance chart for storing entire water generated from terrace area as well as paved and open area by constructing seperate storage tanks shall be reworked and submitted.

The committee also imposed the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
5. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.10 Proposed Development of Residential Apartment located at Sy.No.7/2, 8/2, 8/3 & 8/4 of Varthur Village, Ward No.149, Varthur Hobli, Bangalore by **M/s. Neeladri Properties (SEIAA 101 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	T.Bhadrachalam & M. Madhava Naidu No 169, 6th Main 4th Block Jayanagar Bangalore-560011
2	Name & Location of the Project	Development of Residential Apartment At Sy No. 1/3, 1/4, & 1/5B, Chikkanayakanahally Village, Varthur Hobli, Bengaluru East Taluk, Bengaluru
3	Co-ordinates of the Project Site	Latitude : 12°56'25.63" N Longitude: 77°44'20.95" E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Varthur lake- 0.40 km- N Thubarahalli lake- 2.10km – NW Bellandur lake- 6.70 km W
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.	------
5	Type of Development	

a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Development of Residential Apartment
b.	Residential Township/ Area Development Projects	Not Applicable
6	Plot Area (Sqmt)	13,.005.25 sqmt.
7	Built Up area (Sqmt)	48,850 Sqmt.
8	Building Configuration [Number of Blocks/Towers/Wingsetc.,with Numbers of Basements and Upper Floors]	Block A :- B+GF+4UF+TF Block B :- LB+UB+GF+4UF+TF
9	Number of units in case of Construction Projects	321 units
10	Number of Plots in case of Residential Township/ Area Development Projects	Not Applicable
11	Project Cost (Rs. In Crores)	70 Crores
12	Recreational Area in case of Residential Projects / Townships	Not Applicable
13	Details of Land Use (Sqmt)	
a.	Ground Coverage Area	6250.00 Sqmt
b.	Kharab Land	--
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	5202.10 Sqmt
d.	Internal Roads	--
e.	Paved area	1553.15 Sqmt
f.	Others Specify	--
g.	Parks and Open space in case of Residential Township/ Area Development Projects	Not Applicable
h.	Total	13,005.25 Sqmt
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	Not Applicable since it is new project
b.	Total quantity of Excavated earth (in cubic meter)	18,500 Cum
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	18,500 Cum completely utilised within the project site

d.	Excess excavated earth (in cubic meter)	There is no excess excavated earth	
e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	Backfilling, foundation, road area and for gardening	
15	WATER		
I.	Construction Phase		
a.	Source of water	STP treated water for construction purpose & Tanker water for domestic	
b.	Quantity of water for Construction in KLD	10 KLD	
c.	Quantity of water for Domestic Purpose in KLD	5 KLD	
d.	Waste water generation in KLD	4 KLD	
e.	Treatment facility proposed and scheme of disposal of treated water	will be treated in mobile STP	
II.	Operational Phase		
a.	Total Requirement of Water in KLD	Fresh	116 KLD
		Recycled	78 KLD
		Total	257 KLD
b.	Source of water	BWSSB	
c.	Waste water generation in KLD	219 KLD	
d.	STP capacity	220KLD	
e.	Technology employed for Treatment	Sequencing Batch Reactor (SBR) Technology	
f.	Scheme of disposal of excess treated water if any	Excess of water is used for floor washing.	
16	Infrastructure for Rain water harvesting		
a.	Capacity of sump tank to store Roof run off	4×40 cum	
b.	No's of Ground water recharge pits	18 no's	
17	Storm water management plan	• Land is gently sloping terrain and sloping towards North West direction. • Separate and independent rainwater drainage system will be provided for collecting rainwater from terrace and paved area, lawn & roads. • Rainwater collection tank of capacity 4×40cum is proposed which will be provided to collect the roof run off, which will be reused after prior treatment. • 18 number of recharge pits will be provided to	

		recharge the ground water within the site; excess runoff during the monsoon period finds its way to external storm water drain
18	WASTE MANAGEMENT	
I.	Construction Phase	
a.	Quantity of Solid waste generation and mode of Disposal as per norms	Quantity – 25 kg/day Solid waste will be collected manually and handed over to local body for further processing
II.	Operational Phase	
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	Quantity –312 Kg/day Organic wastes will be segregated & collected separately and processed in organic waste converter Sludge generated from STP of capacity 10 kg/day will be reused as manure for greenery development purposes.
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	Quantity – 468 Kg/day Recyclable waste will be given to the waste collectors for recycling for further processing.
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste oil generated from the DG sets will be collected in leak proof barrels and handed over to the authorized waste oil recyclers.
d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-Wastes will be collected & stored in bins and disposed to the authorized & approved KSPCB E-waste processors.
19	POWER	
a.	Total Power Requirement -Operational Phase	BESCOM – 320 kVA
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	2X 160 kVA
c.	Details of Fuel used for DG Set	Diesel
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation devices such as Solar energy, LED lights, Copper wound transformer are proposed in the project. Overall energy saving is 20.5%.
20	PARKING	
a.	Parking Requirement as per norms	Required = 353no's, Provided = 370 no's
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	D
c.	Internal Road width (RoW)	Approach road width – 15 m Internal road width is– 5 m

The proponent was invited for the 228th meeting held on 6-8-2019 to provide required clarification. The proponent remained absent by submitting a letter dated:6-8-2019.

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

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

228.11 Proposed Development of Residential Apartment located at Ward No.191, Sy.No.55 situated in Singasandra Village, Begur Holi, Bangalore South **Taluk by M/s. M.R Group (SEIAA 102 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	A.Lakshminarayana Naidu & S.J. Janardhan No No. 30, SaiNilayam, 1st Floor, 1st B main, Vivekanadanagar, Kathriguppe, B.S.K 3rd stage, Bangalore-560085
2	Name & Location of the Project	Development of Residential Apartment At ward no-191, Sy No. 55 situated in Singasandra Village, Begur Hobli, Bangalore south Taluk.
3	Co-ordinates of the Project Site	Latitude : 12°52'24.07" N Longitude: 77°38'42.71" E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Basapura lake- 0.5km (NE) Kodisingasandra lake- 0.5 Km (NW) Singasandra lake- 0.9 km (N)
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.	------
5	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Development of Residential Apartment
b.	Residential Township/ Area Development Projects	Not Applicable
6	Plot Area (Sqmt)	9,611.80 sqmt.
7	Built Up area (Sqmt)	30,651.88 Sqmt.
8	Building Configuration [Number of Blocks/Towers/Wingsetc.,with Numbers of Basements and Upper Floors]	Block A :- BF+GF+4UF+TF

9	Number of units in case of Construction Projects	198 units
10	Number of Plots in case of Residential Township/ Area Development Projects	Not Applicable
11	Project Cost (Rs. In Crores)	45 Crores
12	Recreational Area in case of Residential Projects / Townships	Not Applicable
13	Details of Land Use (Sqmt)	
a.	Ground Coverage Area	4505.76Sqmt
b.	Kharab Land	--
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	3,316.07Sqmt
d.	Internal Roads	--
e.	Paved area & driveway	1789.97 Sqmt
f.	Others Specify	--
g.	Parks and Open space in case of Residential Township/ Area Development Projects	Not Applicable
h.	Total	9,611.80 Sqmt
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	Not Applicable since it is new project
b.	Total quantity of Excavated earth (in cubic meter)	11,000 Cum
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	11,000 Cum completely utilised within the project site
d.	Excess excavated earth (in cubic meter)	There is no excess excavated earth
e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	Backfilling, foundation, road area and for gardening
15	WATER	
I.	Construction Phase	
a.	Source of water	STP treated water for construction purpose & Tanker water for domestic
b.	Quantity of water for Construction in KLD	10 KLD

c.	Quantity of water for Domestic Purpose in KLD	5 KLD	
d.	Waste water generation in KLD	4 KLD	
e.	Treatment facility proposed and scheme of disposal of treated water	will be treated in mobile STP	
II.	Operational Phase		
a.	Total Requirement of Water in KLD	Fresh	98 KLD
		Recycled	49 KLD
		Total	162 KLD
b.	Source of water	BWSSB	
c.	Waste water generation in KLD	138 KLD	
d.	STP capacity	140 KLD	
e.	Technology employed for Treatment	Sequencing Batch Reactor (SBR) Technology	
f.	Scheme of disposal of excess treated water if any	Excess of water is used for floor washing.	
16	Infrastructure for Rain water harvesting		
a.	Capacity of sump tank to store Roof run off	5×25 cum	
b.	No's of Ground water recharge pits	16 no's	
17	Storm water management plan	• Land is gently sloping terrain and sloping towards North direction. • Separate and independent rainwater drainage system will be provided for collecting rainwater from terrace and paved area, lawn & roads. • Rainwater collection tank of capacity 5×25 cum is proposed which will be provided to collect the roof run off, which will be reused after prior treatment. • 16 number of recharge pits will be provided to recharge the ground water within the site; excess runoff during the monsoon period finds its way to external storm water drain	
18	WASTE MANAGEMENT		
I.	Construction Phase		
a.	Quantity of Solid waste generation and mode of Disposal as per norms	Quantity – 25 kg/day Solid waste will be collected manually and handed over to local body for further processing	
II.	Operational Phase		
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	Quantity –196 Kg/day Organic wastes will be segregated & collected separately and processed in organic waste	

		converter Sludge generated from STP of capacity 7 kg/day will be reused as manure for greenery development purposes.
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	Quantity – 294 Kg/day Recyclable waste will be given to the waste collectors for recycling for further processing.
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste oil generated from the DG sets will be collected in leak proof barrels and handed over to the authorized waste oil recyclers.
d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-Wastes will be collected & stored in bins and disposed to the authorized & approved KSPCB E-waste processors.
19	POWER	
a.	Total Power Requirement -Operational Phase	BESCOM – 500 kVA
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1X 380 kVA
c.	Details of Fuel used for DG Set	Diesel
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation devices such as Solar energy, LED lights, Copper wound transformer are proposed in the project. Overall energy saving is 21.5%.
20	PARKING	
a.	Parking Requirement as per norms	Required = 218 no's, Provided =249 no's
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	C
c.	Internal Road width (RoW)	Approach road width – 15 m Internal road width is– 5 m

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 228th meeting held on 6-8-2019 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 provided during the meeting. As seen from the village survey map there are no water bodies either in the form of lake or natural nalas which attracts buffer as per norms.

As far as CER is concerned the proponent has stated that he will earmark Rs.90 lakhs to take up rehabilitation works in rain devastated Kodagu District.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing by adopting sullage and sewage treatment separately.
5. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
6. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

7th August 2019

Members Present in the meeting:

Shri. N. Naganna	-	Chairman
Shri. B. Chikkappaiah,IFS(R)	-	Member
Dr. N. Krishnamurthy	-	Member
Dr. K.B Umesh	-	Member
Shri M. Srinivasa	-	Member
Shri G.T Chandrashekharappa	-	Member
Dr. Vinodkumar C.S	-	Member
Shri. Vyshak V. Anand	-	Member
Shri D. Raju	-	Member
Shri J.G Kaveriappa	-	Member
Shri Md. Saleem I Shaikh	-	Member
Shri. Vijaya Kumar,IFS	-	Secretary

EIA Proposals

228.12 Construction of Residential Apartment and Villa project at Sy.No.219/1(P), 219/6A, 219/6B, 224/2, 226/1(P), 227/1(P) of Gunjur village, Bengaluru East Taluk, Bengaluru **by M/s. Candeur Constructions(SEIAA 39 CON 2019)**

Sl. No	PARTICULARS	INFORMATION

1	Name & Address of the Project Proponent		Mr.Katam Reddy Srikanth Reddy Managing Partner M/s. Candeur Constructions, Sy .No.183/1A,183/1B,183/10,Gunjur Main Road, Next to Vinayaka Theater, Varthur, White Field, Bangalore -560087.
2	Name & Location of the Project		Development of Residential Apartment and Villas project Sy. Nos. 219/1(P),219/6A,219/6B, 224/2, 226/1(P), 227/1(P) of Gunjur village, Varthur hobli, Bangalore east taluk, Bangalore.
3	Co-ordinates of the Project Site		12°55'49.88"N 77°44'35.99"E
4	Environmental Sensitivity		
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	NA
	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.	NA
5	Type of Development		Residential Apartment and Villas project
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Apartment and Villas project
	b.	Residential Township/ Area Development Projects	NA
6	Plot Area (Sqm)		The plot area of the proposed project is about 47760.18 sqm. Khrab area is 1315.21. Total site area of actual and record is 46444.97 sqm. Existing Road widening is 103.51 sqm. Proposed 18.0 mt road widening as per RMP 2015 is 1977.09 sqm. Proposed 18.0 mt road widening as per RMP 2031 is 1566.56 sqm. Net site area is 42797.81 sqm.
7	Built Up area (Sqm)		1,78,146.88 Sqm.
8	Building Configuration		No. of Blocks: 4 Nos.

	Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Block-1 : No. of Floors: B+G + 23 Upper Floors Block-2 : No. of Floors: 2B+G + 23 Upper Floors Block-3 : No. of Floors: 2B+G + 23 Upper Floors Block-4 : No. of Floors: B+G + 16 Upper Floors Residential Villa: 4 Nos. No. of Floors: G + 2 Upper Floors
9	Number of units in case of Construction Projects	1236
10	Number of Plots in case of Residential Township/ Area Development Projects	NA
11	Project Cost (Rs. In Crores)	200
12	Recreational Area in case of Residential Projects / Townships	NA
13	Details of Land Use (Sqm)	

	a.	Ground Coverage Area	8713.16 Sqm (21.53%).
	b.	Kharab Land	NA
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	13939.49 Sqm (30.0%)
	d.	Internal Roads	8.0 mts Width
	e.	Paved area	21447.85 Sqm (43.47%)
	f.	Others Specify	Civic amenity area is 2344.50 sqm (5.0%), Existing Road widening is 103.51 sqm. Proposed 18.0 mt road widening as per RMP 2015 is 1977.09 sqm. Proposed 18.0 mt road widening as per RMP 2031 is 1566.56 sqm.
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
	h.	Total	

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	130000 cum

		earth (in cubic meter)		
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	For back filling = 50,000 For Landscape= 20,000 For Internal Road making =30, 000	
	d.	Excess excavated earth (in cubic meter)	30,000	
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	We will store the excess excavated earth next to our project site of our own land and will used for our future projects.	
15	WATER			
	I.	Construction Phase		
	a.	Source of water	BWSSB STP treated water	
	b.	Quantity of water for Construction in KLD	100 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD	
	d.	Waste water generation in KLD	8 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Mobile sewage Treatment Plant	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	520
			Recycled	300
			Total	820
	b.	Source of water	BWSSB	
	c.	Waste water generation in KLD	740	
	d.	STP capacity	740	
	e.	Technology employed for Treatment	SBR	
	f.	Scheme of disposal of excess treated water if any	Excess treated sewage will be given to nearby construction projects/ avenue plantation/UGD	
16	Infrastructure for Rain water harvesting			
	a.	Capacity of sump tank to store Roof run off	200	
	b.	No's of Ground water recharge pits	30	
17	Storm water management plan		Enclosed in EMP	
18	WASTE MANAGEMENT			
	I.	Construction Phase		
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	Given to BBMP authorities	
	II.	Operational Phase		

	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1636 kg/day converted in to organic manure and used for garden
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	1091 kg/day given to PCB authorized recycler
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	100-150 Lts/one B check given to PCB authorized recycler
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	150 Kg/year given to PCB authorized recycler
19	POWER		
	a.	Total Power Requirement - Operational Phase	2000 KW
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	500 KVA X 3 nos.
	c.	Details of Fuel used for DG Set	Low Sulphuric diesel
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	20% we are achieved
20	PARKING		
	a.	Parking Requirement as per norms	1305
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic report is enclosed
	c.	Internal Road width (RoW)	8.0 mts

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 223rd meeting held on 27-5-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Conceptual plan, proposed ToRs and clarification/additional information provided during the meeting. During presentation of ToRs the proponent has stated that he has started studies from the date of application in the month of March and thus requested to permit him to adopt the same for which the committee has agreed to permit him.

The committee decided to recommend the proposal to SEIAA for issue of Standard ToRs alongwith following additional ToRs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

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 utilise 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.
6) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.
7) 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.
8) To submit the Details of trees to be felled and the proposed trees for development of greenery as per norms.
9) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
10) 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 (KWH/year/BUA), bench mark this value for similar commercial buildings.
11) 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.
12) 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.
13) 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.
14) Ground Water analysis shall be conducted for heavy metal parameters such as Mercury, Lead, Cadmium, & Uranium also.
15) The proponent to submit the list of flora and fauna found in the study area of 10 KM radius, if there are any Schedule-I fauna and RET species, the proponent to come up with suitable wildlife forest conservation plan

prepared in consultation with forest authorities along with budget back up to be carried out in a time bound schedule.

Accordingly the ToRs were issued vide letter dated: 8-7-2019.

The proponent has submitted the EIA report vide letter dated: 17-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the meeting of SEAC to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and clarification/information provided during the meeting. The committee noted from the village survey map there are no water bodies either in the form of lake or natural nalas which attracts buffer as per norms.

As seen from the baseline studies the concentration of PM_{10} and $PM_{2.5}$ is much above the permissible limits for which the proponent has stated that he will install air purifiers during construction phase as well as operation phase. It is also observed that noise levels are also above the permissible limits for which the proponent has stated that it is mainly due to lot of construction works that are underway and for that he will create green baffle wall all round the project site. For entry and exit the proponent has agreed to submit the detailed designs so that the traffic flow in the state highway (SH-35) is maintained smooth. The proponent has also agreed to utilize maximum treated sewage by going for triple line plumbing and agreed to submit the flow chart.

As far as CER is concerned the proponent has stated that he has earmarked Rs.3.00 crores to take up remedial works in the rain devastated Kodagu district.

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

1) The earthwork calculation has to be reworked taking into consideration level difference within the project site and also the fact that the project is having dedicated approach road to a length of 120 meters.
2) Design details of entry and exit to ensure smooth traffic flow in the SH may be worked out and submitted.
3) Carbon foot prints with suitable offsets may be worked out both for construction and operation phase may be submitted.
4) Separate rain water harvesting storage sumps to store water from terrace area and paved area may be detailed and treatment scheme may be worked out and submitted.
5) Plan to utilize the terrace area and the walls to harvest renewable energy (solar and wind) with layout plan for the solar panels and location of micro wind turbines have to be worked out and submitted.

Action: Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

228.13 Proposed Residential Development at Sy.Nos.123, 127 (P) & 128, of Pattandur Agrahara Village, K.R Puram Hobli, Bengaluru East Taluk, Bengaluru by **M/s. Prestige Estates Projects Ltd(SEIAA 12 CON 2019)**

Sl. No.	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		M/s. Prestige Estates Projects Limited, The Falcon House, No: 1, Main Guard Cross Road, Bengaluru – 560 001.
2	Name & Location of the Project		Proposed Residential Development At Survey Nos. 123, 127 (P) & 128, Pattandur Agrahara Village, K R Puram Hobli, Bengaluru East Taluk, Bengaluru.
3	Co-ordinates of the Project Site		Latitude: 12° 58' 54.26" N Longitude: 77° 44' 27.79" E
4	Environmental Sensitivity		
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	As per the village map, there are nalas crossing the project site for which buffer will be provided as per the BDA RMP 2015. Also there is a PattandurAgrahara lake in South Western side of the project site for which buffer will be provided as per the BDA RMP 2015.
	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.	There is a PattandurAgrahara lake in South Western side of the project site for which buffer will be provided as per the BDA RMP 2015.
5	Type of Development		
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Apartment
	b.	Residential Township/ Area Development Projects	Area Development project
6	Plot Area (Sqm)		68,571.4 Sqmt (16 Acres 37.6 Guntas)
7	Built Up area (Sqm)		1,70,752.88 Sqmt

8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	

Sl. No.	Building		Specification
	Block 1	Wing – A	B+G+23UF
		Wing – B	B+G+23UF
	Block 2	Wing – A	B+G+23UF
		Wing – B	B+G+23UF
	Block 3		B+G+24UF
	Block 4		B+G+24UF
	Block 5		B+G+24UF

9	Number of units in case of Construction Projects	The project comprises of 689 Nos. of residential units and a club house which is sprawled across in 5 Blocks.
10	Number of Plots in case of Residential Township/ Area Development Projects	NA
11	Project Cost (Rs. In Crores)	Rs. 272 Crores.
12	Recreational Area in case of Residential Projects / Townships	--
13	Details of Land Use (Sqm)	

a.	Ground Coverage Area	7,909.33 Sqmt (11.81%)
b.	Kharab Land	1,618.73 Sqmt
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	42,206.62 Sqmt (63.04%)
d.	Internal Roads	16,442.9 Sqmt
e.	Paved area	--
f.	Others Specify	Service Area – 393.85 Sqmt
g.	Parks and Open space in case of Residential Township/ Area Development Projects	6,695.27 Sqmt
h.	Total	68,571.40Sqmt

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	170 m^3

		Applicable	
	b.	Total quantity of Excavated earth (in cubic meter)	1,07,345m^3
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	1,07,345 m^3
	d.	Excess excavated earth (in cubic meter)	--
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	NA
15	WATER		
	I.	Construction Phase	
	a.	Source of water	Labour camp mobile STP Treated Water for construction purpose and External authorized tanker for domestic purpose.
	b.	Quantity of water for Construction in KLD	18 KLD
	c.	Quantity of water for Domestic Purpose in KLD	30 KLD
	d.	Waste water generation in KLD	29 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	The total sewage generated from construction site & labor camp is 29 KLD which will be treated in a mobile STP of capacity 30 KLD; treated sewage will be re-used for Dust Suppression, Gardening & Construction purpose.
	II.	Operational Phase	
	a.	Total Requirement of Water in KLD	Fresh: 546 KLD Recycled: 364 KLD Total: 910 KLD
	b.	Source of water	BWSSB
	c.	Waste water generation in KLD	864 KLD
	d.	STP capacity	875 KLD
	e.	Technology employed for Treatment	Sequencing Batch Reactor (SBR)
	f.	Scheme of disposal of excess treated water if any	For Flushing - 364KLD For Landscaping - 253KLD For Car Washing - 56 KLD To BWSSB Sewer Line - 158 KLD
16	Infrastructure for Rain water harvesting		

	a.	Capacity of sump tank to store Roof run off	150 Cum	
	b.	No's of Ground water recharge pits	43 Nos. of recharge pits	
17	Storm water management plan		Yes	
18	WASTE MANAGEMENT			
	I.	Construction Phase		
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	24 kg/Day from Construction Site &24 kg/Day from Labor Camp. Solid waste generated from the labor camp and construction site will be collected manually and handed over to authorized recyclers.	
	II.	Operational Phase		
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1.12 MT/Day. Biodegradable wastes will be segregated at the source and will be processed in proposed organic waste converter.	
	b.	Quantity of Non-Biodegradable waste generation and mode of Disposal as per norms	0.74 MT/Day. Non-biodegradable Wastes will be given to the waste recyclers.	
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste Oil Generation: 1.5l/hr. Hazardous wastes like waste oil from DG sets, used batteries etc. will be handed over to the authorized hazardous waste recyclers.	
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-Wastes will be collected separately & it will be handed over to authorized E-waste recyclers for further processing.	
19	POWER			
	a.	Total Power Requirement - Operational Phase	3,237 kVA	
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	750 kVA X 2 Nos., 500 kVA X 3 Nos.,	
	c.	Details of Fuel used for DG Set	629 l/hr	
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Solar lighting& water heaters Cu wound transformer LED Energy Savings: 19%	
20	PARKING			
	a.	Parking Requirement as per norms	Required	Provided
			1,009 Nos.	1,123 Nos.

			Road	Towards	Existing	Modified by adding the generated traffic	Changed scenario-2 after Namma Metro
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	ECC Road (Approach Road)	B	B or C	A	
			ITPL Road	K R Puram	C	D	A
				Hope Farm	C	C or D	A
	c.	Internal Road width (RoW)	8.0m				

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 216th meeting held on 13th February 2019 to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form-I, IA, Pre-feasibility report and clarification/additional information provided during the meeting.

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

1) 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 utilise 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.
6) Scheme for utilising 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 existing and proposed to be felled and detailed and the scheme for development of greenery with the number and kind of tree species suitable for the buffer zone and green belt area 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) 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.
12) Prepare and submit environmental sustainability report on the organization and project as per G4 framework.

Accordingly ToRs were issued on 27-3-2019. The proponent has submitted the EIA Report vide letter dated:12-7-2019 and the same was placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the SEAC meeting to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, IA, Conceptual plan, and clarification/information provided during the meeting. The committee noted that as per the village survey map there are two small water ponds (Kunte) of 4 guntas each and as per the norms it attracts buffer zone for which the proponent has stated that he will come back with proper clarifications about the ponds.

The committee after discussion and deliberation decided to defer the subject.

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

228.14 Proposed Modification & Expansion of Non Residential Building(Commercial Office/ Software Park/ Hospital) project at Sy.No20(P), 21(P) 22(P), 23, 24(P) & 28/1(P) of Hennur Village, Kasaba Hobli, Bengaluru North Taluk, Bengaluru **by M/s. DivyaSree Real Estate Developers Pvt Ltd.,(SEIAA 56 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Bhaskar N. Raju , Authorized Signatory M/s. Divyasree Real Estate Developers Pvt. Ltd Divyasree Chambers, A wing, No. 11, O' Shaugnessy Road, Bangalore- 560025
2	Name & Location of the Project	Modification and Expansion of Non Residential Building (Commercial-Office/ Software park/Hospital) project At Sy Nos. 20(P), 21(P), 22(P), 23, 24(P) & 28/1(P) of Hennur village, KasabaHobli, Bangalore North Taluk, Bangalore
3	Co-ordinates of the Project Site	13°02'23.54"N 77°38'28.15"E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water	Hennur lake is at a distance of 1.5 km towards East of the project site

		bodies (Lake, Rajakaluve, Nala etc.,)	Nala is at a distance of 50 m towards North of the project site
	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.	NA
5		Type of Development	Commercial-Office/ Software park/Hospital
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Commercial-Office/ Software park/Hospital
	b.	Residential Township/ Area Development Projects	NA
6		Plot Area (Sqm)	54,379.18 sqm
7		Built Up area (Sqm)	2,73,439.97sqm
8		Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Tower 1-Hospital/Commercial: 3B+G+7th UF Tower 2: 3B+G+8th UF Tower 3-A: 3B+G+11thUF Tower 3-B : 3B+G+11th UF Tower 4 : 3B+G+8th UF
9		Number of units in case of Construction Projects	NA
10		Number of Plots in case of Residential Township/ Area Development Projects	NA
11		Project Cost (Rs. In Crores)	450
12		Recreational Area in case of Residential Projects / Townships	NA
13		Details of Land Use (Sqm)	
	a.	Ground Coverage Area	14554.96Sqm (12.72%).
	b.	Kharab Land	NA
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	10,645.0 (19.57%) Sqm
	d.	Internal Driveways	8mts Width
	e.	Paved area	26,460.27 Sqm (48.56%)
	f.	Others Specify	
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA

	h.	Total	
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)	4,00,000
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	For back filling = 150,000 For Landscape= 35,000 For Internal Road making =100,000 Remaining 115,000 Cum will submit the details during the EIA report.
	d.	Excess excavated earth (in cubic meter)	NA
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	NA
15	WATER		
	I.	Construction Phase	
	a.	Source of water	Our Existing STP or from BWSSB
	b.	Quantity of water for Construction in KLD	100 KLD
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD
	d.	Waste water generation in KLD	9 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	Mobile sewage Treatment Plant
	II.	Operational Phase	
	a.	Total Requirement of Water in KLD	Fresh: 714 Recycled: 445 Total: 1160
	b.	Source of water	BWSSB
	c.	Waste water generation in KLD	1040
	d.	STP capacity	560 KLD, 475 KLD for commercial and 90 KLD for Commercial-Office/ Software park/HospitalProject.
	e.	Technology employed for Treatment	SBR
	f.	Scheme of disposal of excess	Zero Discharge

		treated water if any	
16	Infrastructure for Rain water harvesting		
	a.	Capacity of sump tank to store Roof run off	250 KLD
	b.	No's of Ground water recharge pits	30 No's
17	Storm water management plan		Enclosed in EMP
18	WASTE MANAGEMENT		
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	Shall be disposed through BBMP Authorised
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1.9 MT/day converted in to organic manure and used for garden
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	2.8 MT/day given to PCB authorized recycler
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	3000-3500 Lts/one B check given to PCB authorized recycler
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	1000 Kg/year given to PCB authorized recycler
	e	Hospital Bio medical waste	300 kgs of organic waste will be treated in Organic convertor Black Bag- Cytotoxic drug and Chemical Waste is 20 Kg/day disposed to Secured Land Filling Red Bag- Solid Waste Viz Infected Dressings and POP Casts 250 Kg/day Disposed in Deep Burial Yellow Bag -Anatomical Waste such as Placenta, Pathological waste and body parts 200 kg/day Disposed in Deep Burial. Blue Bag- Infected plastics viz Syringes, Gloves and plastic waste 20 Kg/day given to recycler White bag - Sharps like needles and cut glasses 10 Kg/day disposed to Sharp Pit
19	POWER		
	a.	Total Power Requirement - Operational Phase	11230 KW
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1500 KVA X 15Nos , 1010 KVA X 2 nos, 750 KVA X 1 Nos and 500 KVA X 3 Nos

	c.	Details of Fuel used for DG Set	Low Sulphuric diesel
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	27.3 % we are achieved
20	PARKING		
	a.	Parking Requirement as per norms	3074
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic report is enclosed
	c.	Internal Road width (RoW)	8 mts

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 223rd meeting held on 27-5-2019 to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form I, Conceptual plan and clarification/additional information provided during the meeting. Earlier an EC was issued on 19-9-2018 for a BUA of 1,44,985.98 sqmts for a total plot area of 54,379.18 sqmts. In the earlier concept plan five blocks were envisaged out of which three were proposed to be taken up during future expansion and the scope of the earlier EC was for two blocks. Now this application is made out to construct all the five blocks with a BUA of 2,73,439.97 sqmts and the proponent has stated that he has retained the original configuration proposed in the earlier concept plan. The proponent has stated that he is collecting data from the month of March and he has requested to permit him to adopt this data for which the committee decided to permit him to adopt the data.

The committee decided to recommend the proposal to SEIAA for issue of Standard ToRs and following additional ToRs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

1) 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 utilise 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.
6) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.

7) 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.
8) To submit the Details of trees to be felled and the scheme for development of greenery within the project site as per norms.
9) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
10) 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 (KWH/year/BUA), bench mark this value for similar commercial buildings.
11) 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.
12) 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.
13) 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.
14) The NOC from the Airport authority regarding the height of the building permitted may be obtained and submitted.
15) Ground Water analysis shall be conducted for heavy metal parameters such as Mercury, Lead, Cadmium, & Uranium also.
16) The proponent to submit the list of flora and fauna found in the study area of 10 KM radius, if there are any Schedule-I fauna and RET species, the proponent to come up with suitable wildlife forest conservation plan prepared in consultation with forest authorities along with budget back up to be carried out in a time bound schedule.
17) The activities proposed in each tower may be detailed and submitted.

Accordingly the ToRs were issued vide letter dated:8-7-2019.

The proponent has submitted the EIA report vide letter dated: 17-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the 228th meeting held on 7-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and

clarification/information provided during the meeting. The committee noted that this is a project involving expansion of the already sanctioned project. Earlier an EC was issued during the year 19-9-2018 and in the concept plan for which EC issued was comprising five blocks and out of these five blocks only two blocks were proposed for construction and the area for other three blocks was reserved for future expansion in the earlier concept plan itself. The proponent has stated that no construction work has been taken up till date and only site leveling is being done. The proponent has stated that in view of the recent Hon'ble Supreme court order which mandates lesser buffer zones he made use of this leeway and revised the concept plan and made out this application based on this revised concept plan. In the earlier EC all the two blocks were for construction of 3B+G+11UF. Now as per this application one block will be for 3B+G+11UF and the other block is for 3B+G+8UF. The proponent has stated that in the earlier EC the FAR utilized was 1.784 and now as per the present FAR is 2.984 as against the 3.0 permissible. As far as mandated buffer zones are concerned, in the earlier EC it was 75 meter from the lake and 50 meters from the primary nala and 35 meter from the secondary nala and 25 meter from tertiary nala and the buffer left for secondary nala was getting merged with the buffer left for lake. Now in this proposal the buffer zones left is 30 meter from the lake and 15 meter for tertiary nala and 50 meter left for primary nala earlier has been retained in this proposal also.

As far as CER is concerned the proponent has stated that he has earmarked Rs.6.75 crores for this purpose out of which 30% will be spent in the local areas and balance 70% will be earmarked for taking up rehabilitation works in the rain devastated Kodagu district.

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

1. The earthwork calculation has to be reworked taking into consideration level difference within the project site.
2. Design details of entry and exit to ensure smooth traffic flow in the main approach road.
3. Carbon foot prints with suitable offsets may be worked out both for construction and operation phase may be submitted.
4. Separate rain water harvesting storage sumps to store water from terrace area and paved area may be detailed and treatment scheme may be worked out and submitted.
5. Plan to utilize the terrace area and the walls to harvest renewable energy (solar and wind) with layout plan for the solar panels and location of micro wind turbines have to be worked out and submitted.
6. Air cooled HVAC to replace water cooled HVAC to conserve water and reuse to reduce the fresh water demand for which revised water balance chart and energy savings to be worked out and submitted.
7. Resubmit the STP and hospital STP flow chart with ozonisation as stated by the proponent and design parameters to be shared.

Action: Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

228.15 Proposed Residential Development Project at Sy.Nos.107(P), 115/2, 115/3, 115/4, 115/5, 116/3 situated at Nagondanahalli Village and Sy.Nos. 30/1, 30/6 located at Hagadur Village, K.R.PuramHobli, Bengaluru East Taluk, Bengaluru Urban District **By M/s. Sobha Ltd. (SEIAA 31 CON 2019)**

Sl. No		PARTICULARS	INFORMATION
1		Name & Address of the Project Proponent	Mr. Prasanna Venkatesh G, M/s Sobha Limited Sarjapur-Marthahalli Outer Ring Road Bellandur Post, Bangalore - 560103
2		Name & Location of the Project	Proposed Residential Developmental Project by M/s Sobha Limited, located Sy. No. 107(P), 115/2, 115/3, 115/4, 115/5, 116/3 situated at Nagondanahalli Village and Sy. No. 30/1, 30/6 located at Hagadur Village, K.R. Puram Hobli, Bangalore East Taluk
3		Co-ordinates of the Project Site	12°58'21.53"N & 77°45'50.64"E 12°58'15.20"N & 77°45'50.62"E 12°58'15.80"N & 77°45'55.05"E 12°58'19.89"N & 77°45'58.01"E 12°58'14.62"N & 77°45'58.82"E
4		Environmental Sensitivity	
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Nallurahalli Lake -2.5 Km W Sheelavanthakere- 2.20Km, SW
	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 per village map, there is a nala pass through the site and nalas passing near the site, even though some are not visible on ground, sufficient buffers have been provided as per NGT order dated 04.05.2016.
5		Type of Development	
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Proposed Residential Apartment Project
	b.	Residential Township/ Area Development Projects	-NA-
6		Plot Area (Sqm)	The plot area of the project is 58,932.35Sq.mt out of which

<table>
<tr><td colspan="2"></td><td>the Physical plot area for development is 56,555.98 Sq. m (13 Acres 39 Guntas)</td></tr>
<tr><td colspan="2">7</td><td>Built Up area (Sqm)</td><td>1,74,734.18 Sq m</td></tr>
<tr><td colspan="2">8</td><td>Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]</td><td>Residential Apartment consisting of 739 units in 4 Blocks with clubhouse facility
<table>
<tr><th>Description</th><th>Building Configuration</th><th>Maximum building height , m</th></tr>
<tr><td>Block-1</td><td>2B + G + 17 UF</td><td rowspan="5">54.65 m</td></tr>
<tr><td>Block 2</td><td>1B + G + 14 UF
1B + G + 17 UF</td></tr>
<tr><td>Block 3</td><td>1B + G + 17 UF
B + G + 14 UF</td></tr>
<tr><td>Block 4</td><td>2B + G + 17 UF</td></tr>
<tr><td>Clubhouse</td><td>B+G + 2 UF</td></tr>
</table></td></tr>
<tr><td colspan="2">9</td><td>Number of units in case of Construction Projects</td><td>739 units</td></tr>
<tr><td colspan="2">10</td><td>Number of Plots in case of Residential Township/ Area Development Projects</td><td>-NA-</td></tr>
<tr><td colspan="2">11</td><td>Project Cost (Rs. In Crores)</td><td>Rs. 367.2 Crores</td></tr>
<tr><td colspan="2">12</td><td>Recreational Area in case of Residential Projects / Townships</td><td>-NA-</td></tr>
<tr><td colspan="2">13</td><td colspan="2">Details of Land Use (Sqm)</td></tr>
<tr><td></td><td>a.</td><td>Ground Coverage Area</td><td>Tower-11445.26 Sq.m (20.24%)</td></tr>
<tr><td></td><td>b.</td><td>Kharab Land</td><td>1113.2 Sq. m</td></tr>
<tr><td></td><td>c.</td><td>Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006</td><td>The landscape area of 20,331.987 Sq. m (36%) [(on Ground-15,201.13 Sq.m and on Podium 5130.857 Sq.m)]</td></tr>
<tr><td></td><td>d.</td><td>Internal Roads</td><td rowspan="2">Road & Hard Paved area-18,825.03Sq.m</td></tr>
<tr><td></td><td>e.</td><td>Paved area</td></tr>
<tr><td></td><td>f.</td><td>Others Specify</td><td>Other service-1305.7 Sq.m
Ramps-707Sq.m
CA site:2827.8 Sq.m</td></tr>
<tr><td></td><td>g.</td><td>Parks and Open space in case of Residential Township/ Area Development Projects</td><td></td></tr>
<tr><td></td><td>h.</td><td>Total</td><td>58,932.35 Sq.m (14 Acres and 22.5 Guntas)</td></tr>
<tr><td colspan="2">14</td><td colspan="2">Details of demolition debris and / or Excavated earth</td></tr>
<tr><td></td><td>a.</td><td>Details of Debris (in cubic meter/MT) if it involves</td><td>Construction Debris -23,481 cum
It will be reused / recycled for back filling / sub base</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Demolition of existing structure and Plan for re use as per Construction and Demolition waste management Rules 2016, If Applicable</td><td>work for roads & pavements within project site.</td></tr>
<tr><td></td><td>b.</td><td>Total quantity of Excavated earth (in cubic meter)</td><td>81,839 cum</td></tr>
<tr><td></td><td>c.</td><td>Quantity of Excavated earth propose to be used in the Project site (in cubic meter)</td><td><table><tr><th>Sl. No.</th><th>Item</th><th>Quantity (Cum)</th></tr><tr><td>1</td><td>Total excavated earth</td><td>81,839</td></tr><tr><td>2</td><td>Building back filling</td><td>28,184</td></tr><tr><td>3</td><td>Landscape Purpose</td><td>21,255</td></tr><tr><td>4</td><td>Road works</td><td>17,725</td></tr><tr><td></td><td>Block formation and used for labor camp and compound wall construction</td><td>14,675</td></tr></table></td></tr>
<tr><td></td><td>d.</td><td>Excess excavated earth (in cubic meter)</td><td>No excess excavated earth</td></tr>
<tr><td></td><td>e.</td><td>Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal</td><td>-NA-</td></tr>
<tr><td>15</td><td></td><td>WATER</td><td></td></tr>
<tr><td></td><td>I.</td><td>Construction Phase</td><td></td></tr>
<tr><td></td><td>a.</td><td>Source of water</td><td>Private water tankers</td></tr>
<tr><td></td><td>b.</td><td>Quantity of water for Construction in KLD</td><td>650 KL</td></tr>
<tr><td></td><td>c.</td><td>Quantity of water for Domestic Purpose in KLD</td><td>45KLD- for the proposed labour colony</td></tr>
<tr><td></td><td>d.</td><td>Waste water generation in KLD</td><td>36KLD</td></tr>
<tr><td></td><td>e.</td><td>Treatment facility proposed and scheme of disposal of treated water</td><td>Wastewater will be treated in mobile STP</td></tr>
<tr><td></td><td>II.</td><td>Operational Phase</td><td></td></tr>
<tr><td></td><td>a.</td><td>Total Requirement of Water in KLD</td><td><table><tr><td>Fresh</td><td>344</td></tr><tr><td>Recycled</td><td>406</td></tr><tr><td>Total</td><td>521</td></tr></table></td></tr>
<tr><td></td><td>b.</td><td>Source of water</td><td>BWSSB/ External Tankers</td></tr>
<tr><td></td><td>c.</td><td>Waste water generation in KLD</td><td>469KLD</td></tr>
<tr><td></td><td>d.</td><td>STP capacity</td><td>570KLD (2X 285 KLD modules)</td></tr>
<tr><td></td><td>e.</td><td>Technology employed for Treatment</td><td>Extended aeration with ultra filtration technology</td></tr>
</table>

	f.	Scheme of disposal of excess treated water if any	Excess STP treated water of 39KLD will be disposed to UGD line
16		Infrastructure for Rain water harvesting	
	a.	Capacity of sump tank to store Roof run off	790cum
	b.	No's of Ground water recharge pits	39 Nos.
17		Storm water management plan	Enclosed in the project report
18		WASTE MANAGEMENT	
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	Total No. of labors = 600 no's (considering @ 0.25 Kg /day /person) Solid waste generation= 600 X 0.25=150Kgs /day
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1.11MT/day organic waste and 0.74 MT/day inorganic waste generated from residential building. Total 1.85 MT/day of generated solid waste during operational phase will be segregated into organic and inorganic waste. Organic waste will be treated in organic waste converter and inorganic waste will be handover to authorized processors.
	b.	Quantity of Non-Biodegradable waste generation and mode of Disposal as per norms	
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	1014 Kgs/ hr ; Used Oil from D.G. Sets will be stored in leak proof sealed barrels and will be given to KSPCB authorized reprocessors / re-cyclers.
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	100Kg/annum
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1.11MT/day organic waste and 0.74 MT/day inorganic waste generated from residential building.
19		POWER	
	a.	Total Power Requirement - Operational Phase	The total maximum load demand for the proposed project during operational phase is 6912.64KVA.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 X 250 KVA + 1 X 320 KVA + 9 X 500 KVA
	c.	Details of Fuel used for DG Set	HSD for DG sets with low sulphur content <0.05%. This used oil will be handed over to authorized recyclers.
	d.	Energy conservation plan and Percentage of savings	Solar energy will be utilized for solar Geysers in master bed room of last one floor, LED lights are considered on

<table>
<tr><td></td><td></td><td>including plan for utilization of solar energy as per ECBC 2007.</td><td>solar power. It will result in energy saving equal to about 24.31%.</td></tr>
<tr><td>20</td><td></td><td>PARKING</td><td></td></tr>
<tr><td></td><td>a.</td><td>Parking Requirement as per norms</td><td>
<table>
<tr><th>Sl. No.</th><th>Activity</th><th>No. of units</th><th>Parking required in Nos</th></tr>
<tr><td>1</td><td>Residential</td><td>739</td><td>739</td></tr>
<tr><td>2</td><td colspan="2">10 % Visitors Parking</td><td>74</td></tr>
<tr><td>3</td><td colspan="2">Total No. of Car Parking Required</td><td>813</td></tr>
</table>
<table>
<tr><th>Sl. No.</th><th>Level</th><th>No's</th></tr>
<tr><td>1</td><td>Basement 1st Level</td><td>386</td></tr>
<tr><td>2</td><td>Basement 2nd Level</td><td>509</td></tr>
<tr><td>3</td><td>Ground Floor</td><td>270</td></tr>
<tr><td>4</td><td>Surface Parking</td><td>75</td></tr>
<tr><td>5</td><td>Total car parking provided</td><td>1240</td></tr>
</table>
</td></tr>
<tr><td></td><td>b.</td><td>Level of Service (LOS) of the connecting Roads as per the Traffic Study Report</td><td>The present level of service will remain "A, B & B" along Approach Road, Immadihalli Main Road and Dr. Ambedkar Nagar Road /Nagondanahalli main road respectively
A-Excellent, B-Very Good</td></tr>
<tr><td></td><td>c.</td><td>Internal Road width (RoW)</td><td>8m</td></tr>
</table>

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

The Proponent and Environment Consultant attended the 220th meeting held on 9-4-2019 to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form I, Conceptual plan and clarification/additional information provided during the meeting. The committee noted that earlier an application was made out for issue of EC for the same project area and BUA of 1,84,287.69sqmts and ToRs were also issued. Subsequently the proponent has decided to go for reconfiguration of the project plan and in view of this the project proponent has not responded though he was given several opportunities and the committee decided to recommend for the closure on the basis of the letter furnished by the proponent stating that he is revising the concept plan. Now proponent states that he has incorporated all the revision and modifications and made out a fresh application for the same for the BUA 1,74,734.18sqmts. In this regard the proponent has also requested that he has started collecting data from the date of issue of earlier ToRs and requested the committee to permit him to adopt the same for EIA report.

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) 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 utilise 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.
6) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.
7) 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.
8) 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.
9) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
10) 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.
11) 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.
12) 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.
13) 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.
14) The NOC from the Airport authority regarding the height of the building permitted may be obtained and submitted.
15) Ground Water analysis shall be conducted for heavy metal parameters such as Mercury, Lead, Cadmium, & Uranium also.

Accordingly the ToRs were issued vide letter dated: 31-5-2019.

The proponent has submitted the EIA report vide letter dated: 8-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the 228th meeting held on 7-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and clarification/information provided during the meeting. As seen from the baseline studies it is noticed that there is a presence of Uranium in the ground water near Nagondanahalli and Hagadur in K.R Puram Hobli. The committee taken note of this and after deliberation decided to request the SEIAA to take up the matter with the concerned authorities.

As far as CER is concerned the proponent has stated that he has earmarked Rs.6.00 crores for this purpose for taking up rehabilitation works in the rain devastated Kodagu district.

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

1) The earthwork calculation has to be reworked taking into consideration level difference within the project site.
2) Design details of entry and exit to ensure smooth traffic flow in the main approach road.
3) Carbon foot prints with suitable offsets may be worked out both for construction and operation phase may be submitted.
4) Separate rain water harvesting storage sumps to store water from terrace area and paved area may be detailed and treatment scheme may be worked out and submitted.
5) Resubmit the STP flow chart with ozonisation as stated by the proponent and design parameters to be shared to restrict demand on fresh water to minimum.
6) Separate rain water harvesting storage sumps to store water from terrace area and paved area may be detailed and treatment scheme may be worked out and submitted.

Action: Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

Fresh subjects:

228.16 Proposed Development of Hostel building project at Sy.No.76/1, 76/2, 41/1A, 41/2, 41/3, 41/4 of Devarakaggalahalli Village, Harohalli Hobli, KanakapuraTaluk, Ramanagara District by **Dr. D Premachandra Sagar(SEIAA 97 CON 2019)**

Sl.	PARTICULARS	INFORMATION

No		
1	Name & Address of the Project Proponent	Dr. D. Premachandra Sagar No. 44/54, Tilak Nagar, Jayanagar Extension, Bangalore-560041.
2	Name & Location of the Project	Proposed Hostel Building At Sy No. 76/1, 76/2, 41/1A, 41/2, 41/3 & 41/4 of Devarakaggalahalli Village, Harohalli Hobli, Kanakapura Taluk, Ramanagara District.
3	Co-ordinates of the Project Site	12° 39' 30.67" N 77° 26' 45.05" E
4	Environmental Sensitivity	No
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Adjacent to the project site there is Nala.
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.	Buffer is provided as per zonal regulations.
5	Type of Development	Hostel Building
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Hostel Building
b.	Residential Township/ Area Development Projects	NA
6	Plot Area (Sqm)	59,083.57 sqm
7	Built Up area (Sqm)	56,353.68 sqm
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Block A, B, C, D and E =Ground +12 Upper Floors
9	Number of units in case of Construction Projects	NA
10	Number of Plots in case of Residential Township/ Area	NA

	Development Projects		
11	Project Cost (Rs. In Crores)		60 cr
12	Recreational Area in case of Residential Projects / Townships		NA
13	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	15,462.17 Sqm(26.17%)
	b.	Kharab Land	
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	7257.91 (12.28%) Sqm
	d.	Internal Roads	12m
	e.	Paved area	33,175.42(56.15%) Sqm
	f.	Others Specify	
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
	h.	Total	
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)	12000 cum
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	All the excavated earth will be used within the project site for, landscaping of gardens and road making etc.
	d.	Excess excavated earth (in cubic meter)	NA
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	NA
15	WATER		
	I.	Construction Phase	
	a.	Source of water	Existing Borewells
	b.	Quantity of water for Construction in KLD	50 KLD
	c.	Quantity of water for Domestic	8 KLD

		Purpose in KLD		
	d.	Waste water generation in KLD	6 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Mobile Treatment plant.	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	401
			Recycled	329
			Total	730
	b.	Source of water	Grampanchyat and existing Borewell	
	c.	Waste water generation in KLD	660	
	d.	STP capacity	660	
	e.	Technology employed for Treatment	SBR	
	f.	Scheme of disposal of excess treated water if any	NA	
16	Infrastructure for Rain water harvesting			
	a.	Capacity of sump tank to store Roof run off	125 CUM	
	b.	No's of Ground water recharge pits	23	
17	Storm water management plan		Enclosed in EMP	
18	WASTE MANAGEMENT			
	I.	Construction Phase		
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	The solid waste (garbage) generated from the hostel building is about 1,474 Kg/day. Organic waste used for mannure and inorganic waste is given to authorized vendor	
	II.	Operational Phase		
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	885 kg/day converted in to manure by using organic convertor	
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	589 kg/day (40%) of inorganic waste will be given to authorized vendors.	
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	100-150 lts per one B check it is given to PCB authorized vendor	
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	150 kg/year it given to PCB authorized recycler	
19	POWER			
	a.	Total Power Requirement - Operational Phase	1000 KW	

	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	220 KVA x 2 nos
	c.	Details of Fuel used for DG Set	Non Sulphuric Diesel
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	15% of energy saving we achieved
20	PARKING		
	a.	Parking Requirement as per norms	275
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic report is enclosed
	c.	Internal Road width (RoW)	12mts

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

The proponent was invited for the 228th meeting held on 7-8-2019 to provide required clarification. The committee noted that the application for the project has been made out for Hostel building. The Hostel buildings/Education Institutions are being exempted from mandating EC up to a BUA of 1,50,000 sqmts as per the EIA notification.

Hence, the committee after discussion decided to request SEIAA to inform the proponent accordingly and recommended the proposal for closure.

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

228.17 Proposed Residential Apartment at Sy.No.59/2, Municipal No.8/3, Lingarajapura Village, Kasaba Hobli, Bengaluru North Taluk, Bengaluru by **M/s. Parakite Builders Private Limited(SEIAA 98 CON 2019)**

Sl. No.	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	M/s. Parakite Builders Private Limited GPR Towers, #6, Park Road, Tasker Town, Bengaluru – 560 051.
2	Name & Location of the Project	Proposed Residential Apartment At Sy. No. 59/2, Municipal No. 8/3, Lingarajapura Village, Kasaba Hobli, Bengaluru North Taluk, Bengaluru.
3	Co-ordinates of the Project Site	Latitude: 13° 00' 08.48" N Longitude: 77° 37' 52.10" E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest	

		Lake and other water bodies (Lake, Rajakaluve, Nala etc.,).	Baiyappanahalli Lake - 850 m from the project site.
	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.	Baiyappanahalli Lake - 850 m from the project site. As per the village map there is a nala in the north eastern side of the project site for which buffer as per the CDP – 2015 has been provided.
5		Type of Development	
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Apartment
	b.	Residential Township/ Area Development Projects	No
6		Plot Area (Sqm)	8,626.96 Sqmt (2 Acre 5.27 Guntas)
7		Built Up area (Sqm)	45,280.80Sqmt
8		Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Configuration- 2B+G+17UF
9		Number of units in case of Construction Projects	128 Nos.
10		Number of Plots in case of Residential Township/ Area Development Projects	No
11		Project Cost (Rs. In Crores)	Rs. 90 Crores
12		Recreational Area in case of Residential Projects / Townships	No
13		Details of Land Use (Sqm)	
	a.	Ground Coverage Area	2,450.57Sqmt
	b.	Kharab Land	--
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	3,436.98Sqmt
	d.	Internal Roads	2,361.41 Sqmt
	e.	Paved area	--
	f.	Others Specify	Road widening area = 201.54Sqmt Ramp area = 176.46
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	Included in the landscape area (3,436.98Sqmt)
	h.	Total	8,626.96 Sqmt
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	45 m^3	
	b.	Total quantity of Excavated earth (in cubic meter)	46,978Cum	
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	46,978 Cum	
	d.	Excess excavated earth (in cubic meter)	NA	
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	NA	
15		WATER		
	I.	Construction Phase		
	a.	Source of water	Nearby BWSSB STP treated water for construction & external authorized tanker water suppliers for domestic purpose	
	b.	Quantity of water for Construction in KLD	7.3 KLD	
	e.	Quantity of water for Domestic Purpose in KLD	3.6 KLD	
	d.	Waste water generation in KLD	3.4 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	The sewage generated from the construction site is 3.4 KLD which will be collected in collection tank and from there it will be lifted to BWSSB sewage treatment plant through external agencies for further treatment.	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	57 KLD
			Recycled	29 KLD
			Total	86KLD
	b.	Source of water	BWSSB	
	c.	Waste water generation in KLD	82 KLD	
	d.	STP capacity	90 KLD	
	e.	Technology employed for Treatment	Sequential Bio- Reactor Technology	
	f.	Scheme of disposal of excess treated water if any	For Flushing - 29 KLD For Landscaping - 22 KLD For BWSSB Sewer line – 27KLD	
16		Infrastructure for Rain water harvesting		

	a.	Capacity of sump tank to store Roof run off	75 Cum
	b.	No's of Ground water recharge pits	3 Nos.
17		Storm water management plan	Yes
18		WASTE MANAGEMENT	
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	18 kg/day. Solid waste generated will be collected manually and handed over to authorized recyclers.
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	173 kg/day. Biodegradable wastes will be segregated at the source and will be processed in proposed organic waste converter.
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	115 kg/day. Non-biodegradable Wastes will be given to the waste recyclers.
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste Oil Generation: 0.243 l/hr. Hazardous wastes like waste oil from DG sets, used batteries etc. will be handed over to the authorized hazardous waste recyclers.
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-Wastes will be collected separately & it will be handed over to authorized E-waste recyclers for further processing.
19		POWER	
	a.	Total Power Requirement - Operational Phase	772 kW
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	500 kVA X 1 No.
	c.	Details of Fuel used for DG Set	104.76 l/hr
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Solar water heater Solar lighting Cu wound transformer HF ballast LED Energy Savings: 23%
		PARKING	
	a.	Parking Requirement as per norms	Required: 141 Nos. / Provided: 142Nos.
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Road: To Banasawadi — Existing: D, Modified: D, Changed Scenario: D To Cox Town — Existing: D, Modified: D, Changed Scenario: D
	c.	Internal Road width (RoW)	8.0 m

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 228th meeting held on 7-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and clarification/information provided during the meeting. As per the village survey map there is one tertiary nala touching the northeastern tip of the project site for which the proponent has stated that he has left 15 meter buffer zone. During appraisal the proponent has agreed to construct two separate water storage tanks one each for terrace rainwater and the another for paved surface runoff of capacity 150 cum each in order to reduce the demand for fresh water. He has also agreed to go for triple line plumbing to use the maximum treated sewage and minimize the fresh water demand. As far as utilizing the entire terrace area for solar power generation the proponent has stated that he will rework and submit.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance subject to submission of following informations to the Authority.

1) Water treatment scheme for rainwater separately for terrace rain water and paved rainwater runoff may be worked out and submitted.
2) STP design parameters to be shared along with ozonization for disinfection.
3) Solar panel layout for the entire terrace area may be worked out and submitted.

The committee also imposed the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
5. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.18 Proposed Residential Project at Sy.No.16/2 and 15/2, Geddalahalli Village, K.R Puram Hobli, Bangalore East **Taluk by Mr. Munawar Burhan (SEIAA 99 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Mr. Munawar Burhan #199, 19th Cross, 1st block, R.T Nagar Post, Bangalore-560032
2	Name & Location of the Project	Proposed Residential Project at Sy. No. 16/2 and 15/2, Geddalahalli Village, K R Puram Hobli, Bangalore East Taluk.
3	Co-ordinates of the Project Site	13°02'36.38"N 77°38'29.60"E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Kalkere is at a distance of 1.49Km.
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.	NA
5	Type of Development	Residential Building
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Building
b.	Residential Township/ Area Development Projects	NA
6	Plot Area (Sqm)	8,963.98 m²
7	Built Up area (Sqm)	38,222.21 m²
8	Building Configuration Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Residential building Tower 01 & 02: 2B+G+25UF
9	Number of units in case of Construction Projects	NA
10	Number of Plots in case of Residential Township/ Area Development Projects	229 Units
11	Project Cost (Rs. In Crores)	150
12	Recreational Area in case of Residential Projects / Townships	NA

13	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	1,208.34 Sqm(13.49 %)
	b.	Kharab Land	NA
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	2,958.11 sqm (33.0%)
	d.	Internal Roads	8mts Width
	e.	Paved area	4,797.52 Sqm (53.52%)
	f.	Others Specify	NA
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
	h.	Total	
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)	22,000
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	For back filling = 9,000 For Landscape=7,000 For Internal Road making =6, 000
	d.	Excess excavated earth (in cubic meter)	NA
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	NA
15	WATER		
	I.	Construction Phase	
	a.	Source of water	BWSSB STP treated water
	b.	Quantity of water for Construction in KLD	50 KLD
	c.	Quantity of water for Domestic Purpose in KLD	5 KLD
	d.	Waste water generation in KLD	4KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	Mobile sewage Treatment Plant
	II.	Operational Phase	

	a.	Total Requirement of Water in KLD	Fresh	110
			Recycled	90
			Total	200
	b.	Source of water	BWSSB	
	c.	Waste water generation in KLD	185	
	d.	STP capacity	185 KLD	
	e.	Technology employed for Treatment	SBR	
	f.	Scheme of disposal of excess treated water if any	Excess 70 KLD treated water is used for avenue plantation and excess is disposed to Existing UGD	
16	Infrastructure for Rain water harvesting			
	a.	Capacity of sump tank to store Roof run off	35 m^3	
	b.	No's of Ground water recharge pits	15 No's	
17	Storm water management plan		Enclosed in EMP	
18	WASTE MANAGEMENT			
	I.	Construction Phase		
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	Shall be disposed through BBMP Authorised vendors.	
	II.	Operational Phase		
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	207kg/day converted in to organic manure and used for garden	
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	138 Kg/day given to PCB authorized recycler	
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	50-80 Lts/one B check given to PCB authorized recycler	
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	100 Kg/year given to PCB authorized recycler	
19	POWER			
	a.	Total Power Requirement - Operational Phase	1000 KVA	
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	320 KVA X 2 nos.	
	c.	Details of Fuel used for DG Set	Low Sulphusic diesel	
	d.	Energy conservation plan and	19% we have achieved	

		Percentage of savings including plan for utilization of solar energy as per ECBC 2007	
20	PARKING		
	a.	Parking Requirement as per norms	252
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic report is enclosed
	c.	Internal Road width (RoW)	25.50 mts

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 228th meeting held on 7-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and clarification/information provided during the meeting. As per the village survey map there is one nala cutting across the project site in the northsouth direction and in this regard the proponent has produced a letter from Chief Engineer, Storm water Dept., BBMP stating that this nala is just a rain cut furrow and development on both the side have already been taken place and this nala has lost all the nala characteristics and there is no need for buffer zone. According to which the proponent has stated that he has left 3 guntas of kharab land as it is which is in the form of rain cut furrow.

As far as CER is concerned , the proponent has agreed to earmark Rs.2.25 crores to take up rehabilitation works in the rain devastated Kodagu district.

During appraisal the proponent has agreed to construct two separate water storage tanks one each for terrace rainwater and the another for paved surface runoff of capacity 75 cum each in order to reduce the demand for fresh water. He has also agreed to go for triple line plumbing to use the maximum treated sewage and minimize the fresh water demand. As far as utilizing the entire terrace area for solar power generation the proponent has stated that he will rework and submit.

In view of the above the committee decided to reconsider after submission of the following information.

1) Water treatment scheme for rainwater separately for terrace rain water and paved rainwater runoff may be worked out and submitted.
2) STP design parameters to be shared along with ozonisation for disinfection.
3) Solar panel layout for the entire terrace area may be worked out and submitted.

Action: Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

228.19 Proposed Construction of Residential Apartment located on Sy.No.6/1A & 6/1B, Whitefield, K.R Puram Hobli, Bangalore East Taluk, Bangalore District **by M/s. Marvel Infra Build Pvt Ltd., (SEIAA 100 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Marvel Infra Build Pvt Ltd #213/3, Sai Mandir Road,veeraswamy reddy layout, Kadugodi, Bangalore 560 067
2	Name & Location of the Project	Sy No. 6/1A and 6/1B, of White field village, K R Puram Hobli, Bangalore East Taluk, Bangalore dist.
3	Co-ordinates of the Project Site	12^0 58' 6".4 N and 77^0 45' 1".90E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	The distance of the property line from the VARTHUR LAKE is about 2.5 Kms, there is no Rajakaluve or nala in the site vicinity, except for the storm drain on the BBMP road periphery
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.	No buffer is provided since there is no lake or water body in the vicinity of the site, The NGT orders are not applicable
5	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	RESIDENTIAL APARTMENT
b.	Residential Township/ Area Development Projects	NA
6	Plot Area (Sq.M)	11496.04sqmts (3acres 15.05guntas)
7	Built Up area (Sq.M)	54223.85 Sq.M

8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	B+G+14UF Ground coverage - 26.95% --- 3098.18sqmts Greenery - 35% ----- 4023.61 sqmts Driveway - 21% ---- 2414.17sqmts R& CPA - 15% --- 1724.40sqmts Utilities & facilities -2.05% --- 235.68 sqmts
9	Number of units in case of Construction Projects	302 units
10	Number of Plots in case of Residential Township/ Area Development Projects	NA
11	Project Cost (Rs. In Crores)	55
12	Recreational Area in case of Residential Projects / Townships	1724.40sqmts
13	Details of Land Use (Sq.M)	

a.	Ground Coverage Area	3098.18sqmts
b.	Kharab Land	NA
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	4023.61 sqmts
d.	Internal Roads	2414.17sqmts
e.	Paved area	
f.	Others Specify	235.68 sqmts
g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
h.	Total	11496.04 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)	19834.2
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	19834.2cum i.e. the entire quantity will be used and there shall be no earth exported from our site

d.	Excess excavated earth (in cubic meter)	NA	
e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	THE ENTIRE QUANTITY WILL BE USED IN THE PROJECT ITSELF FOR Back filling 6950.20 Ramps and driveway 3180.00 Landscaping 6034.50 Mounds & slopes 1065.00 Soil Cement blocks 1800.00 Soil stacked in site for further use 804.50	
15	WATER		
I.	Construction Phase		
a.	Source of water	M O U Submitted	
b.	Quantity of water for Construction in KLD	About 10 to 12	
c.	Quantity of water for Domestic Purpose in KLD	5	
d.	Waste water generation in KLD	2.5 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	
II.	Operational Phase		
a.	Total Requirement of Water in KLD	Fresh	57
		Recycled	148
		Total	205
b.	Source of water	BWSSB, letter of acknowledge ment enclosed	
c.	Waste water generation in KLD	164	
d.	STP capacity	170kld	
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	1 No of 200kl UG Sumps and 1 No. of 100kl impervious walls will be constructed to store the pre filtered rain water runoff from the terrace	
b.	No's of Ground water recharge pits	17 No.s Recharge pits at the 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 3.6 tons sold to recyclers 2.Concrete spill and debris used as road fill consolidation 3.Plywood shuttering and centring material about 1260 Kgs will be given away to Brick kilns 4. Waste mineral oils, lubricants about 600 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 4.50tons will be given away to KSPCB approved recyclers
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	407.7 Kgs/day processed in the organic waste converters to generate manure Sludge 27.18kgs/day
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	271.8Kgs disposed to the Municipal approved garbage clearing contractors
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	About 600lts, Disposed to KSCPB approved recyclers
	d.	Quantity of E waste generation and mode of Disposal as per norms	37.75 Kgs will be stored and disposed to authorized recyclers from KSPCB
19	POWER		
	a.	Total Power Requirement - Operational Phase	793 KVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 No. X 500KVA, 1 No. X 250 KVA
	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	23.59%
20	PARKING		
	a.	Parking Requirement as per norms	302 provided 349
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	C to D AND "D"
	c.	Internal Road width (RoW)	8.0mts as desired by the Fire dept norms

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 228th meeting held on 7-8-2019 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 provided during the meeting. As seen from the village survey map there are no water bodies either in the form of lake or natural nalas which attracts buffer as per norms.

As far as CER is concerned, the proponent has agreed to earmark Rs.80.00 lakhs to take up rehabilitation works in the rain devastated Kodagu district.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing by adopting sullage and sewage treatment separately.
5. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
6. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

ToR Files:

228.20 Proposed Establishment of a new industrial area at Balkundi Village, Hunagund Taluk, Bagalkot District, Karnataka by **Karnataka Industrial Areas Development Board(SEIAA 23 IND 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Establishment of industrial area at "Balkundi" village, Hunagund taluk, Bagalkot district, Karnataka for KIADB's. District development officer,

			KIADB, 4th and 5th Floor, East Wing, Khanija Bhavan, Race course road, Bangalore - 506001.
2	Name & Location of the Project		Establishment of industrial area at "Balkundi" village, Hunagund taluk, Bagalkot district, Karnataka for KIADB's.
3	Co-ordinates of the Project Site		15°55'56.88.56" N and 76°05'36.70"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/River/Nala	Ilkal nala is passing near to site at about 1.5 km from the project site. As per NGT directives sufficient buffer zone will be maintained on side of the nalla.
	b.	Distance from Protected area notified under wildlife protection act	There is no protected wild life area in the study area of 10 km radius.
	c.	Distance from the interstate boundary	98 km from the project site.
	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		Industrial estates/parks/complexes/areas, item no. 7 (c), category "B".
6	New/Expansion/Modification/Product mix change		New industrial area
7	Plot Area (Sq. m)		Total area of the proposed industrial area is 38 hectare (94 acre)
8	Built Up area (Sq. m)		Approx. 300000 sq.m
9	Component of developments		It is an area development projects
10	Project cost (Rs. In Crore)		Rs. 35 Crores.
11	Details of Land Use (Sq. m)ok		
	a.	Ground Coverage Area	267692
	b.	Kharab Land	-
	c.	Internal Roads	33805
	d.	Paved area	-
	e.	Parking	7692
	f.	Green belt	71578

	g.	Others Specify	-
	h.	Total	380000
12	Products and By- Products with quantity (enclose as Annexure if necessary)		NA
13	Raw material with quantity and their source (enclose as Annexure if necessary)		NA
14	Mode of transportation of Raw material and storage facility		NA
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		The area will be developed for industrial entrepreneurs.
18	Details of Plant and Machinery with capacity/Technology used		NA
19	Details of VOC emission and control measures wherever applicable		NA
20	WATER		
	I.	Construction Phase	
	a.	Source of water	Malabrabha river
	b.	Quantity of water for Construction in KLD	Surface water is planned to be drawn from Malabrabha river which is located about 35 km from Balkundi industrial area. About 5 MLD of surface water is planned to be utilized for various upcoming industries.
	c.	Quantity of water for Domestic Purpose in KLD	Sufficient amount of water for domestic will be by KIADB to individual entrepreneurs.
	d.	Waste water generation in KLD	Will be taken care by individual entrepreneurs.
	e.	Treatment facility proposed and scheme of disposal of treated	Will be taken care by individual entrepreneurs.

		water		
	II	Operational Phase ok		
	a.	Source of water	Malabrabha river	
	b.	Total Requirement of Water in KLD	Fresh	5 MLD
			Recycled	-
			Total	5 MLD
	c.	Requirement of water for industrial purpose/production in KLD	Fresh	-
			Recycled	-
			Total	-
	d.	Requirement of water for domestic purpose in KLD	Fresh	-
			Recycled	-
			Total	-
	e.	Waste water generation in KLD	Industrial effluent	-
			Domestic sewage	-
			Total	-
	f.	ETP/STP capacity	-	
	g.	Technology employed for Treatment	-	
	h.	Scheme of disposal of excess treated water if any	-	
21	Infrastructure for Rain water harvesting		Provided	
22	Storm water management plan		Provided	
23	Air Pollution			
	a.	Sources of Air pollution	During construction phase it will be from movement of man & material, heavy earth moving machineries, etc. These emissions will be for short period limited to construction phase. During operation air pollution is anticipated from industrial process and from DG operation during power failure.	
	b.	Composition of Emissions	PM_{10}, $PM_{2.5}$, SO_2 etc.	
	c.	Air pollution control measures proposed and technology employed	Fugitive emissions are expected from material handling/storage areas and transportation activities. These emissions will be controlled by water spraying periodically. During transportation, the vehicles shall be covered with tarpaulin.	

24	Noise Pollution			
	a.	Sources of Noise pollution	-	
	b.	Expected levels of Noise pollution in dB	-	
	c.	Noise pollution control measures proposed	-	
25	WASTE MANAGEMENT			
	I.	Operational Phase		
	a.	Quantity of Solid waste generated per day and their disposal	Biodegradable	Will be taken care by individual entrepreneurs.
			Non- Biodegradable	Will be taken care by individual entrepreneurs.
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Will be taken care by individual entrepreneurs.	
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	Will be taken care by individual entrepreneurs.	
26	Risk Assessment and disaster management		-	
27	POWER			
	a.	Total Power Requirement in the Operational Phase with source	The total power requirement of the proposed Balkundi industrial area is met from 110 kV substation, KPTCL/HESCOM which would be utilized for industrial, residential and utilities etc.	
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	-	
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	-	
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Will be taken care by individual entrepreneurs.	
28	PARKING			
	a.	Parking Requirement as per norms	Provided	
	b.	Internal Road width (RoW)	Provided	
29		Any other information specific to the project (Specify)	Nil	

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 228th meeting held on 7-8-2019 to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form I, prefeasibility report and clarification/additional information provided during the meeting.

The committee decided to recommend the proposal to SEIAA for issue of Standard ToRs and following additional ToRs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

1) The applicability of Hon'ble Supreme Court order /NGT order regarding buffer zone for the water bodies may be detailed and compliance to the same may be worked out and submitted.
2) Scheme for managing the entire earth may be worked out and submitted.
3) Details of mining waste dumped in the project area and within 100 meters radius from the project area with chemical analysis may be submitted.
4) Scheme for development of 15 meters wide green belt with densely foliaged indigenous species around the project area and avenue plantation on either side of the roads.
5) Explore the possibility to develop eco-ponds.
6) Since it is proposed to set up granite polishing units and dying units the suitability of the project site for this type of industries and the anticipated effluent characteristics may also be detailed and the mitigation measures that are to be taken may be detailed and submitted.
7) Measures to be taken to avoid mixing of industrial effluents with the domestic sewage for which common STP is being proposed may be detailed and submitted.

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

<u>Deferred subjects:</u>

228.21 Ammendment in Environmental Clearance to include Red Category Industries at Dobaspet 4th Phase Industrial Area in the Villages of Yedehalli, Chandana Hosahalli, Honnenahalli, Kengal Kempohalli, Avverahalli, K.G.Srinivasapura, Billanakote, Nelamangala Taluk, Bangalore Rural District **by KIADB-DABASPET - NELAMANGALA (SEIAA 20 IND 2017)**

The Proponent has obtained Environmental Clearance for the above said proposal on 27-08-2015, and is seeking ammendment to EC to include Red category industries at Dobaspet 4th phase Industrial Area. As per the TGR Notification, Dated:18-11-2003, the entire area of Dobaspet 4th phase falls under Zone-I.

In this regard, the Proponent has applied for EC ammendment. The proponent and Environmental consultant attended the meeting of SEAC to provide required clarification/additional information.

While appraising the proposal the proponent has stated that the lands for this project have been acquired beyond 100 meters from the habitat as per the guidelines of C&I Department. The proponent has also stated that in case of water bodies the lands have been acquired up to the edge of water bodies and while preparing the development plan, he has left buffer as per NGT order of dated: 4th May 2016. The committee deliberated on the siting guidelines for setting up of Red category industries and found that the proponent has failed to furnish the required information.

The proponent also submitted that while allotting land to the industries they will impose conditions to compulsorily install effluent treatment plant with zero liquid discharge, to maintain the air emission within the prescribed standards of the Central Pollution Control Board and to dispose the hazardous waste such as ETP sludge etc., to the authorised processing agencies.

In the light of the above observations, the committee decided to recall the proponent after submission of the following information.

1) To furnish the information to meet the siting guidelines for setting up of Red category industries as stipulated by MoEF & CC/CPCB.
2) The actual distance between the habitat(minimum/maximum distance) and the acquired lands is to be assesed properly and submitted.
3) If any expansion of the village beyond the gramathana limits has taken place, the same has tobe reported citing maximum and minimum distances from the expanded portion.
4) The list and nature of industries for which the land has been allotted with the pollution potential is to be submitted.
5) Baseline studies should be made afresh and tobe submitted.
6) Submit the compliance to the earlier EC issued.

The proponent has submitted the replies vide letter dated:5-3-2018

The subject is placed before the committee for appraisal.

The Proponent and NABET Accredited Consultant M/s. ABC Techno Labs India Pvt Ltd., Chennai(represented by Sri. Rajendran) attended the meeting to provide clarification/additional information.

The committee perused the reply submitted by the proponent and observed the following:

1) The proponent has failed to furnish the information regarding meeting the siting guidelines for establishing Red category industries as stipulated by MoEF & CC /CPCB.
2) Non compliance of the earlier E.C conditions dated 27-8-2015, particularly the establishment of CETP.

The Committee after discussion decided to appraise the proposal as B1 and had decided to recommend the proposal to SEIAA for issue Standard ToR for conducting EIA study in accordance with EIA Notification 2006 along with relevant guidelines. The committee also decided to prescribe the following additional ToRs:

1) The types of red category industries, area earmarked for red category industries with due justification, their pollution potential such as water intensive, air polluting, engineering industries, different infrastructure provided, pollution control/mitigation measures proposed including green belt development.
2) Measures proposed to ensure the water flow to the T.G Halli reservoir remains unaltered qualitatively and quantitatively.
3) Details of the area covered under T.G Halli Notification duly marking it on the proposed layout plan.
4) Impact of the proposed activity on the farming community.
5) Full compliance to earlier E.C conditions along with certified report of the status of compliance of the condition stipulated in the EC from the Regional officer, MoEF, GOI.

Accordingly ToRs were issued on 3-4-2018. The proponent has submitted the EIA report on 5-4-2019.

The EIA report was placed before the committee for Appraisal. The proponent and Environment Consultant attended the 222nd meeting held on 10-5-2019 for EIA appraisal.

As seen from the documents submitted, the concerns expressed by the public during public hearing have not been addressed properly that too the concerns pertaining to environmental concerns are to be reasoned out properly for this the proponent has agreed to come back after addressing these concerns effectively. Hence the committee decided to defer.

The proponent has submitted the replies vide letter dated:11-6-2019. The proponent was invited for the 228th meeting to provide additional clarification. The proponent has requested for more time to make a presentation.

Hence the committee decided to defer the subject.

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

8th August 2019

Members Present in the meeting:

Shri. N. Naganna	-	Chairman
Shri. B. Chikkappaiah,IFS(R)	-	Member
Dr. N. Krishnamurthy	-	Member
Dr. K.B Umesh	-	Member
Shri M. Srinivasa	-	Member
Shri G.T Chandrashekharappa	-	Member
Dr. Vinod kumar C.S	-	Member
Shri. Vyshak V. Anand	-	Member
Shri D. Raju	-	Member
Shri Md. Saleem I Shaikh	-	Member
Shri Venugopal .V	-	Member
Shri. Vijaya Kumar,IFS	-	Secretary

EIA Appraisal

228.22 Proposed establishment of 10,000 TCD Sugar Unit, 38 MW/Hr Cogeneration Unit and 90 KLPD Distillery along with Incineration Boiler to generate 3 MW/Hr located at Sy.No.24,25/4,25/5,25/6,32/1,32/2 of Byalihal Village, 219,221,222/1A, 222/1B,223/1,223/2,224/1,224/2,224/3,224/4,224/5 of BK Yeragal, Sindagi Taluk, Vijapura District, Karnataka State by M/s. **Sangamnath Sugar Limited(SEIAA 27 IND 2019)**

<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 Manjunath R Kabadi
(Chairman and Managing Director)
M/s Sangamnath Sugars Ltd.,
1st Gate, KSSIDC, 3rd Cross, Industrial Estate, Gokul Road, Hubballi- 580 030.</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>M/s Sangamnath Sugars Ltd.,
Sy No's 24, 32/1, 32/2 of Byalihal Village 219, 221, 222/1A, 223/1, 223/2, 224/1, 224/2, 224/3, 224/4, 224/5 of B K Yeragal, Sindagi Taluk, Vijapura District, Karnataka State</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td>
<table>
<tr><th>SL. No</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>A</td><td>16°53'45.33"N</td><td>76°18'21.30"E</td></tr>
<tr><td>B</td><td>16°53'34.39"N</td><td>76°18'16.98"E</td></tr>
<tr><td>C</td><td>16°53'34.94"N</td><td>76°18'28.02"E</td></tr>
<tr><td>D</td><td>16°53'32.74"N</td><td>76°18'34.79"E</td></tr>
<tr><td>E</td><td>16°53'37.09"N</td><td>76°18'39.13"E</td></tr>
<tr><td>F</td><td>16°53'33.90"N</td><td>76°18'45.15"E</td></tr>
</table>
</td></tr>
</table>

			G	16°53'27.85"N	76°18'49.27"E
			H	16°53'23.34"N	76°18'45.31"E
			I	16°53'25.76"N	76°18'37.55"E
			J	16°53'28.74"N	76°18'41.17"E
			K	16°53'28.78"N	76°18'33.08"E
			L	16°53'30.51"N	76°18'34.79"E
4	Environmental Sensitivity				
	a.	Distance From nearest Lake/ River/ Nala	Doddahalla – 5.15 km SE		
	b.	Distance from Protected area notified under wildlife protection act	Nil within study area		
	c.	Distance from the interstate boundary	Nil within study area		
	d.	whether located in critically / severally polluted area as per the CPCB norms	Nil within study area		
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		5 (g), 5 (j) and 1 (d)		
6	New/ Expansion/ Modification/ Product mix change		New		
7	Plot Area (Sq m)		393354.4 Sqm (97.2 Acres)		
8	Built Up area (Sq m)		Details enclosed in the EIA report		
9	Component of developments		10,000 TCD Sugar cane crushing, 38 MW/hr Cogeneration unit and 90 KLPD distillery and 3 MW/hr from incineration boiler		
10	Project cost (Rs. In crores)		Rs. 500 Cr		
11	Details of Land Use (Sq.m)				
	a.	Ground Coverage Area	Sl. No	Description	Area (acre)
	b.	Kharab Land	1.	Factory	
	c.	Internal Roads		• Raw material storage yard	5.00
	d.	Paved area		• Sugar Unit	20.00
	e.	Parking		• Distillery	10.00
	f.	Green belt		• Power plant	15.00
	g.	Others Specify		Admin, repair shop, lab	2.00
	h.	Total		0. Internal Road and Parking	7.00
			2	Landscape, garden	32.00
			3	Officers and workers Colony	1.00
			4	Vacant Land	5.20
				Total	97.20

12	Products and By- Products with quantity (enclose as Annexure if necessary)	Sl. No	Product	Quantity
		Products		
		1	Sugar	1100 TPD
		2	Power	41 MW/Hr (38 MW/Hr cogeneration + 3 MW/Hr from incineration boiler)
		3	Ethanol/ENA/RS/AA	90 KLPD
		By Products		
		4	Bagasse	3000 TPD
		5	Press mud	400 TPD
		6	Molasses(c- molasses)	400 TPD
13	Raw material with quantity and their source (enclose as Annexure if necessary)	Attached in EIA report.		
14	Mode of transportation of Raw material and storage facility	Trucks; details enclosed in the EIA report		
15	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant	Tractor, Stored in Coal yard		
16	Fly ash production, storage and disposal details whereas coal is used as fuel	Bagasse Ash – 300 TPM Incineration Boiler Ash – 690 TPM Ash Storage Yard.		
17	Complete process flow diagram and technology employed	Attached in EIA report		
18	Details of Plant and Machinery with capacity/ Technology used	Attached in EIA report		
19	Details of VOC emission and control measures wherever applicable	NA		
20	WATER			
	I.	Construction Phase		
	a.	Source of water	Tankers	
	b.	Quantity of water for Construction in KLD	15 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	10KLD	
	d.	Waste water generation in KLD	9KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Mobile STP	
	II	Operational Phase		
	a.	Source of water	Bhima river through Ghattargi Barrage	
	b.	Total Requirement of Water in KLD	Sugar and Cogeneration unit (During season): Total: 6263 KLD Fresh water to process: 763 KLD	

<table>
<tr><td></td><td>c.</td><td>Requirement of water for industrial purpose / production in KLD</td><td>Condensate: 5479 KLD
Domestic water: 21 KLD; Domestic sewage: 19 KLD
Effluent generation: 898 KLD
Fresh water requirement: 784 KLD
<u>Cogeneration (Offseason)</u>
Total: 1353 KLD
Fresh water : 1353 KLD
Domestic water: 15 KLD; Domestic sewage: 14 KLD
Effluent generation: 635 KLD
<u>Distillery</u>
Total: 1205 KLD
Fresh water to process: 535 KLD
Recycled: 665 KLD
Domestic water: 5 KLD; Domestic sewage: 4 KLD
ZLD followed
Fresh water: 540 KLD</td></tr>
<tr><td></td><td>d.</td><td>Requirement of water for domestic purpose in KLD</td><td></td></tr>
<tr><td></td><td>e.</td><td>Waste water generation in KLD</td><td></td></tr>
<tr><td></td><td>f.</td><td>ETP/ STP capacity</td><td>1000 KLD</td></tr>
<tr><td></td><td>g.</td><td>Technology employed for Treatment</td><td>UASB technology</td></tr>
<tr><td></td><td>h.</td><td>Scheme of disposal of excess treated water if any</td><td>Onland for gardening/irrigation in sugar unit and Distillery is ZLD</td></tr>
<tr><td>21</td><td colspan="2">Infrastructure for Rain water harvesting</td><td>Rain water harvesting and recharging measures will be undertaken within premises of the industry.</td></tr>
<tr><td>22</td><td colspan="2">Storm water management plan</td><td>Storm water drain will be done along the periphery of the site boundary including on the either side of the internal roads, to carry surface run-off water that will lead to rain water harvesting cum recharging pits.</td></tr>
<tr><td>23</td><td colspan="2">Air Pollution</td><td></td></tr>
<tr><td></td><td>a.</td><td>Sources of Air pollution</td><td>Boilers , DG set</td></tr>
<tr><td></td><td>b.</td><td>Composition of Emissions</td><td>PM, SOx, NOx</td></tr>
<tr><td></td><td>c.</td><td>Air pollution control measures proposed and technology employed</td><td>Electrostatic Precipitators</td></tr>
<tr><td>24</td><td colspan="2">Noise Pollution</td><td></td></tr>
<tr><td></td><td>a.</td><td>Sources of Noise pollution</td><td>DG set, Boilers, Milling section and tractor trailers</td></tr>
<tr><td></td><td>b.</td><td>Expected levels of Noise pollution in dB</td><td>85.30 dB(A)</td></tr>
<tr><td></td><td>c.</td><td>Noise pollution control measures proposed</td><td>Enclosed in the EIA report</td></tr>
<tr><td>25</td><td colspan="3">WASTE MANAGEMENT</td></tr>
<tr><td></td><td>I.</td><td colspan="2">Operational Phase</td></tr>
<tr><td></td><td>a.</td><td>Quantity of Solid waste generated per day and their disposal</td><td>
<table>
<tr><td>Solid waste</td><td>Quantity in TPM</td><td>Mode of disposal</td></tr>
<tr><td>Bagasse</td><td>90000</td><td>Sent to cogeneration unit to use as fuel as boiler</td></tr>
<tr><td>Boiler- Asli</td><td>300</td><td rowspan="2">Fly ash brick manufacturing</td></tr>
<tr><td>Incineration</td><td>690</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td></td><td>Boiler Ash</td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td>Press mud</td><td>12,000</td><td rowspan="3">Mixed in required proportions and used as manure.</td></tr>
<tr><td></td><td></td><td></td><td>Sludge from ETP</td><td>1.5</td></tr>
<tr><td></td><td></td><td></td><td>Yeast sludge</td><td>216</td></tr>
<tr><td></td><td></td><td></td><td>Lime Grit</td><td>9</td><td>Used in low lying areas/ construction purpose</td></tr>
<tr><td></td><td></td><td></td><td>Domestic solid waste</td><td>2.64</td><td>Nearby municipal agencies & recyclers.</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>Hazardous Waste</td><td>Quantity in lts</td><td>Mode of disposal</td></tr>
<tr><td></td><td></td><td></td><td>Used oil from DG set</td><td>50</td><td rowspan="3">Used as lubricant within industry premises</td></tr>
<tr><td></td><td></td><td></td><td>Steam turbine oil</td><td>30</td></tr>
<tr><td></td><td></td><td></td><td>Waste oil residue from ETP</td><td>40</td></tr>
<tr><td></td><td>c.</td><td>Quantity of E waste generation with source and mode of Disposal as per norms</td><td colspan="3">-</td></tr>
<tr><td>26</td><td colspan="2">Risk Assessment and disaster management</td><td colspan="3">Attached in EIA report</td></tr>
<tr><td>27</td><td colspan="5">POWER</td></tr>
<tr><td></td><td>a.</td><td>Total Power Requirement in the Operational Phase with source</td><td colspan="3">During Season:
Power Generation: 38 MW/Hr
Power Consumption at Co-Gen Unit: 3.42 MW/Hr (9% on generation)
Power Consumption for Sugar Unit: 10.5 MW/Hr (24 units/Ton of Cane)
Power Export :24.08MW/Hr
<u>During Off- season:</u>
Power Generation: 38 MW/hr
Power consumption at Co-gen unit: 3.04 MW/Hr (8% on generation)
Power Consumption for Sugar Unit: 1.0 MW/Hr
Power Export : 33.96MW/Hr
<u>Distillery unit</u>
Power generation: 3 MW/Hr
Power consumption:1.5 MW/Hr
Power export: 1.5 MW/Hr</td></tr>
<tr><td></td><td>b.</td><td>Numbers of DG set and capacity in KVA for Standby Power Supply</td><td colspan="3">1x1000 KVA</td></tr>
</table>

	c.	Details of fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator, Set etc..,	Bagasse, Slop and Indian coal, Diesel
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC norms	-
28	PARKING		
	a.	Parking requirement as per norms	600 nos. of trucks
	b.	Internal road width (RoW)	15 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 228th meeting held on 8-8-2019 for EIA appraisal and to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Prefeasibility Report, EIA Report and clarification/information provided during the meeting. The application for this project has been made out to SEIAA on 16-7-2019. The proponent has stated that he has made out application earlier to MoEF & CC as this nature of projects was under Category-A as per the prevalent rules then. Based on his application MoEF & CC has issued ToRs and subsequent to this public hearing was also carried out. At that stage MoEF & CC has issued an amendment to Notification categorizing this type of project under Category-B and consequent to this proponent has said that he made out an application to SEIAA. The studies and EIA report are all based on the studies conducted as per the ToRs issued from MoEF and CC. Since the ToRs were issued and further action has been taken consequent to these ToRs, proponent claimed that the studies made and report prepared earlier holds good now also since ToRs issued earlier were not withdrawn.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance subject to submission of the following information to the Authority.

1) Scheme to provide minimum basic amenities to the truck drivers and attendants in the adjacent project area may be detailed and submitted.
2) Scheme to have a separate parking area for the loaded and unloaded trucks in order to avoid traffic and environment hazards to the local public as well as road users may be detailed and submitted.
3) Scheme to convert press mud into compost may be worked out and submitted.
4) Details of MOU with the nearby brick manufacturers to use entire fly ash generated in the unit may be worked out and submitted.

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

228.23 Proposed Expansion and Modification of Mixed Use Development Project" shree Technopolis" at Sy.Nos. 36/2(P) of Yamaluru & Sy.No.123, 124,125, 126/A, 130/1, 130/2A, 131/1A, 131/1B, 131/2A, 131/2B, 131/3, 131/4, 131/5A, 131/5B, 131/6, 131/7, 131/8, 132/1, 132/2, 133/1, 133/2, 133/3, 133/4, 134/1, 134/2, 134/3, 135/1, 135/2, 136/1, 136/2, 136/3, 137/3A, 137/3B, 137/4, 149/1, 149/2, 149/3A, 149/3B, 149/3C, 150/1, 150/2, 150/3, 150/4, 150/5A, 150/5B, 151/1, 151/2, 151/3, 151/4, 151/5, 151/6, 151/7, 152, 153/1, 153/2, 153/3, 153/4, 154, 155//1, 155/2A, 155/2B, 156, 157/2, 157/3A, 157/3B, 159/1B, 159/2, 160 of Ammani Bellandur Khane Village, Varthur Hobli, Bangalore East Taluk, Bangalore Urban District **by M/s. Divya Sree Infrastructure Projects Pvt Ltd(SEIAA 14 CON 2019)**

Sl No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	M/s. Divyasree Infrastructure Projects Pvt. Ltd., Divyasree Chambers, 'A' Wing #11, O 'shaugnessy Road, Bangalore 560 025.
2	Name & Location of the Project	"DivyasreeTechnopolis" at Survey No.s 36/2(P) of Yamaluru&Sy No. 123, 124, 125, 126/4A, 130/1, 130/2A, 131/1A, 131/1B, 131/2A, 131/2B, 131/3, 131/4, 131/5A, 131/5B, 131/6, 131/7, 131/8, 132/1, 132/2, 133/1, 133/2, 133/3, 133/4, 134/1, 134/2, 134/3, 135/1, 135/2, 136/1, 136/2, 136/3, 137/3A, 137/3B, 137/4, 149/1, 149/2, 149/3A, 149/3B, 149/3C, 150/1, 150/2, 150/3, 150/4, 150/5A, 150/5B, 151/1, 151/2, 151/3, 151/4, 151/5, 151/6, 151/7, 152, 153/1, 153/2, 153/3, 153/4, 154, 155/1, 155/2A, 155/2B, 156, 157/2, 157/3A, 157/3B, 159/1B, 159/2, 160 of AmmaniBellandurKhane Village, Varthur Hobli, Bangalore East Taluk, Bangalore Urban District.
3	Co- ordinates of the Project Site	Latitude : 12^0 56' 54.75" N Longitude : 77^{0}41' 24.51" E

4		Environmental Sensitivity	
	a	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Water Bodies: Bellandur lake (South West at 1.2 Km) and Varthur lake (South East at 2.5 Km) are the nearest water bodies to the project site.
	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.	No water body is located within or adjoining the project.
5		Type of Development	
	a	New / Expansion / Modification	Expansion and Modification
	b	Residential Apartment / Villas/ Row Houses / Vertical Development / Office /IT/ITES/ Mall/ Hotel/ Hospital/ other	Mixed Use Development
	c	Residential Township/ Area Development Projects	Not Applicable.
6		Plot Area (Sqm)	2,38,155sq m (58.85 Acres)
7		Built Up area (Sqm)	6,88,867.66 sq m
8		Building Configuration [Number of Blocks/ Towers/ Wings etc., with Numbers of Basements and Upper Floors]	Number of blocks: 8 Commercial / IT Park Blocks, 4 Residential Towers, Villa Blocks (A to H) and 2 Club House.
9		Number of units in case of Construction Projects	Mixed Use Development Project (Commercial / IT Park, Residential Apartment (578 Flats) and Villas (89 units))
10		Number of Plots in case of Residential Township/ Area Development Projects	NA
11		Project Cost (Rs. In crores) towards expansion cost	Rs.146,00,00,000/- (Rupees One Hundred and Forty Six Crores only)
12		Recreational Area in case of Residential Projects / Townships	NA
13		Details of Land Use (Sqm)	
	a	Ground Coverage Area	82,474.24 sq m (34.63%)
	b	Kharab Land	-

	c	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	84,687.36 sq m (35.89%)
	d	Internal Roads	68,856.54 sq m (29.48%)
	e	Paved area	
	f	Others Specifty	
	g	Parks and Open space in case of Residential Township/ Area Development Projects	-
	h	Total	
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	Construction debris (200 cum) will be used for road, pavement formation activities within the project site.
	b	Total quantity of Excavated earth (in cubic meter)	The EMP was planned and implemented during the course of construction activity in the project. Presently excavated soil will be reused within the project.
	c	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	
	d	Excess excavated earth (in cubic meter)	
	e	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	NA
15		WATER	
	I	Construction Phase	
	a	Source of water	BWSSB
	b	Quantity of water for Construction in KLD	NA
	c	Quantity of water for Domestic Purpose of KLD	25 KLD
	d	Waste water generation in KLD	23 KLD
	e	Treatment facility proposed and scheme of disposal of treated water	Sewage generated from construction site will be conveyed to STP located in the blocks which are in operation and the capacity of STP is adequate to handle the sewage
II.		Operational Phase	

	a	Total Requirement of Water in KLD	Fresh	1330 KLD
			Recycled	671KLD
			Total	200 KLD
	b	Source of water	BWSSB	
	c	Waste water generation in KLD	2001 KLD	
	d	STP capacity	1801 KLD	
	e	Technology employed for Treatment	-	
	f	Scheme of disposal of excess treated water if any	The treated sewage will be re-used for gardening and flushing of toilet etc.	
16		Infrastructure for Rain water harvesting		
	a	Capacity of sump tank to store Roof run off	400 cum/day capacity roof top rain water storage tank is proposed	
	b	No's of Ground water recharge pits	About 47 pits	
17		Storm water management plan	Appended in the report	
18		WASTE MANAGEMENT		
	I	Construction Phase		
	a	Quantity of Solid waste generation and mode of Disposal as per norms	62.5 Kg/day Presently, Commercial buildings are under Operation and the Organic Waste generated from these blocks is treated in existing organic converter. The domestic organic waste from the construction site will also be treated in the same organic convertor.	
	II	Operational Phase		
	a	Quantity of Biodegradable waste generation and mode of Disposal as per norms	750 Kg/day -Organic solid waste will be treated in an organic converter and product will be used as manure for Landscape development.	
	b	Quantity of Non-Biodegradable waste generation and mode of Disposal as per norms	499 Kg/day will be handed over to recyclers.	
	c	Quantity of Hazardous Waste generation and mod of Disposal as per norms	5000 Litres/annum will be disposed to KSPCB approved and CPCB register waste oil re-processors.	
	d	Quantity of E waste generation and mode of Disposal as per norms	NA	
19		POWER		

	a	Total Power Requirement – Operational phase	30,000 kVA is being augmented from BESCOM
	b	Number of DG set and capacity in KVA for Standby Power Supply	6 X 1500 KVA capacity DG sets
	c	Details of Fuel used for DG Set	Ultra-Pure Low Sulphur Content Diesel
	d	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Details appended
20		PARKING	
	a	Parking Requirement as per norms	629 cars
	b	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	-
	c	Internal Road width (RoW)	Maximum driveway of 19 m provided all-round the buildings
21		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 was invited for the 219th meeting held on 25-3-2019 to provide required clarification. The proponent remained absent without intimation.

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

The proponent and Environment Consultant attended the 223rd meeting held on 28-5-2019 to provide clarification and additional information. The committee screened the proposal considering the information provided in the statutory application-Form I, Conceptual plan and clarification/additional information provided during the meeting. The proponent has stated that he has made out the application during January 2019 and started collecting data from March 2019 and requested the committee to permit him to utilize this data for preparation of EIA report. The committee after due deliberation decided to permit the proponent to utilize the same data for EIA Studies. The committee decided to recommend the proposal to SEIAA for issue of Standard ToRs and following additional ToRs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

1) 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 utilise 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.
6) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.
7) 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.
8) To submit the Details of trees to be felled and the scheme for development of green belt all around the project site.
9) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
10) 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 (KWH/year/BUA), bench mark this value for similar commercial buildings.
11) 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.
12) 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.
13) 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.
14) The NOC from the Airport authority regarding the height of the building permitted may be obtained and submitted.
15) Ground Water analysis shall be conducted for heavy metal parameters such as Mercury, Lead, Cadmium, & Uranium also.
16) The proponent to submit the list of flora and fauna found in the study area of 10 KM radius if there are any Schedule-I fauna and RET species the proponent to come up with suitable wildlife forest conservation plan

prepared in consultation with forest authorities along with budget back up to be carried out in a time bound schedule.

17) The structural stability may be worked out wherein the vertical expansion over the existing building and got vetted by the third party independent consultant may be submitted.

18) Entire history of the project in the chronological order right from the beginning and the actions taken thereon may be listed and submitted.

Accordingly the ToRs were issued vide letter dated 6-7-2019.

The proponent has submitted the EIA report vide letter dated: 16-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the meeting of SEAC to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and clarification/information provided during the meeting. The committee noted that earlier an EC was issued during the year 2012 for the BUA of 6,05,331.10 sqmts spread over an area of 58.85 acres. Further an amendment to EC was issued covering BUA of 6,22,745 sqmts during the year 2016 and further corrigendum was issued for BUA of 6,21,031 sqmts dated:12-6-2018 consisting of 7 commercial blocks with a BUA of 3,48,235 sqmts and 6 residential blocks, 8 villa blocks and two club houses with a BUA of 2,72,796 sqmts for residential purpose. Now the construction as per corrigendum to EC issued in case of BUA of 4,64,354.33 sqmts which consists of residential of 1,96,019.12 sqmts and commercial of 2,68,335.21 sqmts is completed and under operation. Now this application is for expansion and modification of 1,56,677.05 sqmts consisting of 79,777.03 sqmts of residential and commercial of 79,900 sqmts into a BUA of 2,27,511 sqmts consisting of 85,776.09 sqmts of residential and 1,41,735 sqmts of commercial with no change in the site area but the coverage area have been increased from 76,760.49 sqmts to 82,474.24 sqmts i.e., from 32.52% to 34.63%. Now the total BUA envisaged is 6,88,867.30 sqmts as against the 6,21,031.36 sqmts envisaged earlier. As far as buffer zones the same was incorporated in the earlier concept plan of 2012 and has got approved by BDA and BBMP and proponent has reiterated that since there is no change in the site area the concept plan worked out earlier wherein the buffer areas are mentioned holds good now also. As far as kharab lands are concerned the proponent has stated that he has kept the kharab land as it is keeping open for public use and earlier concept plan was approved by the planning authority taking this fact into consideration. Hence he once again reiterated that the concept plan earlier envisaged as far as buffer zone and kharab land are concerned holds good now also.

The committee also observed from the records, that the proponent has not submitted the certified compliance to earlier EC issued for which the proponent has stated that he is regularly filing compliance to Regional office and they have also inspected the site but certified copy has not yet been issued for which the committee

directed him to provide the details of the submission of six monthly compliance report to MoEF & CC and dates of their inspection. Hence, the committee after discussion decided to defer the subject.

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

228.24 Amendment to Proposed Commercial Development (Office facility, Retail Activity and Multi – Level Car Parking (MLCP) Project at Sy.No.52/1, 52/2, 52/3, 52/4, 52/5, 52/6, 52/7 of Hebbal Village, Bangalore North Taluk, Bangalore Dist by **M/s. Embassy - KSL Realty Ventures (SEIAA 143 CON 2018)**

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		H. N. Ravindra M/s. Embassy Groups – KSL Realty Ventures, 1st Floor, Embassy Point, No 150, Infantry Road, Bangalore - 560 001.
2	Name & Location of the Project		Commercial Development (Office facility, Retail Activity and Multi - level Car Parking (MLCP)). Survey Nos. 52/1, 52/2, 52/3, 52/4, 52/5, 52/6 and 52/7 at Hebbal Village, KasabaHobli, Bangalore North Taluk, Bangalore – 560 024.
3	Co-ordinates of the Project Site		Latitude 13°03'06.32"N and Longitude 77°35'47.56"E at MSL 906 m.
4	Environmental Sensitivity		
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Hebbal lake at about 750 m (South West Direction), Nagavara Lake at about 1.5 Kms (South East Direction), Rachenahalli lake at about 2.25 Kms (North East Direction), Amrutahalli lake at about 1.25 Kms (North) from the project site.
	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.	NA
5	Type of Development		

	a.	New/Expansion/Modification	New
	b.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Office
	c.	Residential Township/ Area Development Projects	NA
6	Plot Area (Sqm)		40,265.89 sq m (9 Acres 38 Guntas)
7	Built Up area (Sqm)		2,12,632.36 sq m
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]		Commercial development Project (Office facility, Retail Activity and Multi - level Car Parking (MLCP)) with 3 Blocks. 1. Block 1 comprising of 2B + G + 17UF 2. Block 2 comprising of 2B + G + 17UF 3. Block 3 (MLCP) comprising of 1stF + 13UF
9	Number of units in case of Construction Projects		NA
10	Number of Plots in case of Residential Township/ Area Development Projects		NA
11	Project Cost (Rs. In Crores)		Rs. 800,00,00,000/- (Rupees Eight Hundred Crores Only)
12	Recreational Area in case of Residential Projects / Townships		NA
13	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	11,786.44sq.m
	b.	Kharab Land	-
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	7,826.56 sq.m(podium landscape - 6,542.64sq m)
	d.	Internal Roads	-
	e.	Paved area	18,301.64sq.m
	f.	Others Specify	
	g.	Parks and Open space in case of Residential Township/ Area	NA

		Development Projects	
	h.	Total	
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	200 cum construction debris
	b.	Total quantity of Excavated earth (in cubic meter)	78,000 cum
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	61,000 cum
	d.	Excess excavated earth (in cubic meter)	17,000 cum
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	The excess excavated earth will be used for formation activity in the rare end of the project site &will be used for preparation of soil – cement blocks (Used for compound wall and construction workers sheds construction)
15	WATER		
	I.	Construction Phase	
	a.	Source of water	BWSSB
	b.	Quantity of water for Construction in KLD	80 KLD
	c.	Quantity of water for Domestic Purpose in KLD	80 KLD
	d.	Waste water generation in KLD	72 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	The wastewater generated will be treated in Package Sewage Treatment Plant of 80 KLD Capacity and treated water will be reused for dust suppression and construction/curing activities.
	II.	Operational (Proposed) Phase	
	a.	Total Requirement of Water in KLD	Fresh: 398
			Recycled: 332

			Total	730
	b..	Source of water	BWSSB	
	c.	Waste water generation in KLD	657 KLD	
	d.	STP capacity	700 KLD	
	e.	Technology employed for Treatment	SBR technology	
	f.	Scheme of disposal of excess treated water if any	Toilet Flushing, HVAC makeup and landscape development.	
16	Infrastructure for Rain water harvesting			
	a.	Capacity of sump tank to store Roof run off	480 cum	
	b.	No's of Ground water recharge pits	27 no's	
17	Storm water management plan		The Proponents shall also Provide Recharging Pits along the inner periphery of the boundary wall with recharging pit of size 1.2 m dia x 2.5 m deep spaced at 20 m center to center. These recharging pits are filled with graded media comprising of Boulder at bottom and with coarse aggregates to facilitate percolation of harvested rain water to Recharge Ground Water table.	
18	WASTE MANAGEMENT			
	I.	Construction Phase		
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	160 Kgs/day The domestic wastes will be disposed through BBMP authorities.	
	II.	Operational Phase		
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1,241 Kgs/day, Organic solid waste from the project will be treated in an Organic Waste Converter and is used as manure for Landscape.	
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	1,862 Kgs/day, The inorganic solid waste is proposed to be recycled.	
	c.	Quantity of Hazardous Waste	Waste Oil from DG Sets of about 500	

		generation and mode of Disposal as per norms	Litres/annum. Disposed through KSPCB approved and CPCB register waste oil re-processors.
	d.	Quantity of E waste generation and mode of Disposal as per norms	E-waste generated from the existing building is being disposed through E ParisaraPvt. Ltd.,
19	POWER		
	a.	Total Power Requirement - Operational Phase	10,300 KVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	12 X 1500 kVA capacity DG with acoustics are proposed to be provided with adequate stack height.
	c.	Details of Fuel used for DG Set	High Speed Diesel. Consumption is 315 L/hr for each DG set of 1500 kVA capacity.
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation measures are proposed
20	PARKING		
	a.	Parking Requirement as per norms	2,609Nos
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	'B'
	c.	Internal Road width (RoW)	8 m wide fire driveway provided.
21	Any other information specific to the project (Specify)	-	

The proposal was placed before the committee for appraisal.

The proponent and Environment consultant attended the meeting to provide required information/additional clarification.

The committee noted that earlier an application was made out to MoEF for the reason the SEIAA was not in existence 1-8-2017. The proponent has stated that MoEF has issued ToR and EIA report was prepared and submitted to MoEF online. The proponent has stated subsequently that he has changed the concept plan proposing 2B+G+17UF in Block 1 and Block 2 reducing the basement from 3BF to 2BF and converting Block 3 which was consisting G+2UF into MLCP with 14 floors. Subsequent to reconstitution of SEIAA the proponent has stated that he is making out application incorporating all these modifications and seeking amended ToRs.

The Committee after discussion decided to appraise the proposal as B1 and had decided to recommend the proposal to SEIAA for issue of standard ToR for conducting EIA study in accordance with EIA Notification 2006 along with relevant guidelines. The committee also decided to prescribe the following additional ToRs:

1) Management plan to utilise the entire earth generated within the site may be worked out and submitted.
2) Utilization of the entire terrace for solar power generation may be worked out and submitted.
3) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted.
4) Rain water harvesting/storage details may be worked out.
5) 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.
6) As the site is situated nearer to the Jakkur flying school, the NOC from the concerned authority may be obtained as well as NOC from Airport Authority.
7) 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.
8) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
9) Due diligence details to demolish the existing structures may be worked out and submitted.

Accordingly the ToRs were issued vide letter dated:7-12-2018.

The proponent has submitted the EIA report vide letter dated: 25-7-2019.

The proposal is therefore placed before the committee for EIA appraisal.

The Proponent and the Environmental consultant attended the 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form-I, Conceptual plan, EIA Report and clarification/information provided during the meeting. The committee noted from the village survey map that there are no water bodies and nalas within the project site but there is a nala on the eastern side of the project site in another survey number for which the proponent has stated that he has maintained 25 meter buffer from the nala as per norms.

As far as CER is concerned the proponent has stated that he earmark Rs.7.5 crores and out of which Rs.5.0 crores will be spent on the rejuvenation and remediation on the rain devastated Kodagu district and balance Rs.2.5 crores will be spent for listed activities in the EIA report.

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

1) The rainwater storage details from the terrace area and paved area has shall be reworked and submitted with required treatment scheme.
2) ECBC simulation studies shall be worked out and submitted.
3) Water balance chart to be reworked by utilizing HVAC (Aircooled) topup waer for reuse and thus reducing the demand on the fresh water.
4) Noise and Air modeling as per norms to be worked out and submitted.
5) Land use land cover of study area using high resolution satellite imagery shall be submitted.
6) The scheme for going for ozonization instead of chlorination may be worked out and submitted.

Action Secretary, SEAC to put up the proposal before SEAC after submission of the above information.

Fresh subjects:

228.25 Proposed Commercial/Residential Apartment project at Sy.No.327 & 328, Kalkere Village, KR Puram Hobli, Bangalore East Taluk, Bangalore Urban District **by M/s. S.K Dwellings LLP (SEIAA 103 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Mr. Papireddy Partner, M/s. S K Dwellings LLP, Unit No. A1, "Sai Home Style", Doddathoguru, Electronic City, Bangalore - 560 100
2	Name & Location of the Project	Proposed Commercial/Residential Apartment M/s. S K Dwellings LLP, at Sy No. 327& 328, Kalkere Village, KR Puram Hobli, Bangalore East Taluk, Bangalore Urban District.
3	Co-ordinates of the Project Site	Longitude: 77°40'33.2"E Latitude: 13°02'11.9"N
4	Environmental Sensitivity	
	a. Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	Kalkerilake- 1.15 kms (NW) SecondaryNala is 35 mtowards East
	b. Type of water body at the	There is no lake within 75 meter from the site

		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.	boundary. Secondary Nala is 35 m towards East from the project site boundary
5	Type of Development		
	a.	Residential group housing/ Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Commercial/ResidentialApartment
	b.	Residential Township/ Area Development Projects	No
6	Plot Area (Sqm)		The site area is 6,569.94 sq.m.
7	Built Up area (Sqm)		The Gross BUA is 29,081.95 sq.m.
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]		Construction of Commercial/Residential Apartment project comprising of 2 wings, Wing - A for commercial purpose and Wing - B for residential purpose. Wing -A has 2 Basements + Ground Floor + 5 Upper Floors + Terrace Floor and Wing -B has 1 Basement + Ground Floor + 9 Upper Floors + Terrace Floor
9	Number of units in case of Construction Projects		Total Number of Units is 140Nos.
10	Number of Plots in case of Residential Township/ Area Development Projects		-
11	Project Cost (Rs. In Crores)		52Crores
12	Recreational Area in case of Residential Projects / Townships		Playground area - 274.25sq.m. And Senior Citizen allocated area - 218.5 q.m.(7.5% of net plot area), Park area =680.64 Sq.m. (10.36% of Net plot area);
13	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	2,368.63sq.m (36.05%)
	b.	Kharab Land	Nil
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	2,168.08sq.m (33.00%)
	d.	Internal Roads	2,062.13(31.39%)
	e.	Paved area	-
	f.	Others Specify	-
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA

	h.	Total	6,569.94sq.m.	
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	No demolition is involved.	
	b.	Total quantity of Excavated earth (in cubic meter)	48,365.36cu.m.	
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	48,365.36cu.m.	
	d.	Excess excavated earth (in cubic meter)	Nil	
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	No disposal	
15	WATER			
	I.	Construction Phase		
	a.	Source of water	From Nearby treated water suppliers	
	b.	Quantity of water for Construction in KLD	50 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD	
	d.	Waste water generation in KLD	8 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	The sewage generated during the construction phase will be treated in the Mobile STP	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	45.05
			Recycled	36.31+51.94=88.25
			Total	133.3
	b.	Source of water	BWSSB	
	c.	Waste water generation in KLD	126.59KLD	
	d.	STP capacity	145 KLD	
	e.	Technology employed for Treatment	SBR Technology	
	f.	Scheme of disposal of excess treated water if any	No Disposal. The treated water will be reused for toilet flushing, landscaping in the project site, avenue plantation and Reuse after treating with ultrafiltration and reverse osmosis	

16	Infrastructure for Rain water harvesting		
	a.	Capacity of sump tank to store Roof run off	128 cu.m.
	b.	No's of Ground water recharge pits	23 Nos.
17	Storm water management plan		The storm water from the site will be collected by rainwater harvesting system and will be used for recharging the ground water
18	WASTE MANAGEMENT		
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	No of labours = 100 Nos. Per capita of waste generated = 0.4 kg/day Separate collection bins will be used for organic and inorganic waste. Organic waste will be converted in organic convertor. Inorganic solid waste will be handed over to authorized recyclers.
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	212.98kg/day. Biodegradable waste will be converted in organic convertor.
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	141.98kg/day. Non- Biodegradable waste will be handed over to authorized recyclers
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Nil
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-waste generation will be very less
19	POWER		
	a.	Total Power Requirement - Operational Phase	1000 kVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 X 1000 kVA
	c.	Details of Fuel used for DG Set	HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	•Energy saved by using Solar water Heater : 50,000 kWH/ Year.....(a) • Solar Power Generation : In non-monsoon season 100kWH x 30 x 8 Months = 24,000kWH • In monsoon season 50kWH x 30 x 4 Months = 6,000 kWH • Total SPV Power Generation in a year =

			0.30 L kWH / Annum.....(b) • Total Solar Energy utilization (Energy saving using solar heater and solar PV) in a year = (a)+(b)= 0.5 + 0.3 L KWH = 0.8 L / Annum .....(c) • Total energy savings = 27.39%
20	PARKING		
	a.	Parking Requirement as per norms	One car spacing for 1 units as the floor area is between 50 sq.m. to 225 sq.m= 140+10% visitors Parking required is 140+14cars= 154 Nos Commercial & Club House Parking= 93 Total car Parking required as per NBC= 247 Parking Provided is 247Ecs which is as Per NBC and MoEF Norms
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	HoramavuMain Road-LOS - B
	c.	Internal Road width (RoW)	6m

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 228th meeting held on 8-8-2019 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 provided during the meeting. As seen from the village survey map that there are no water bodies either in the form of lake or natural nalas which attracts buffer as per norms.

The committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
5. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
6. CO sensors tobe installed with suitable exhaust system for double and triple basements.

7. The proponent shall adopt air cooled HVAC systems instead of water cooled HVAC systems in order to reuse the water saved and reduce the fresh water demand.

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

228.26 Proposed Development of "Commercial Office Complex" located at Sy No.92/2, 105/1P, 105/2P, Munnakallal village, Outer Ring Road, Varthur Hobli, Bangalore East Taluk **by M/s. NCC Urban Infrastructure Ltd.,(SEIAA 105 CON 2019)**

Sl. No.		PARTICULARS	INFORMATION
1		Name & address of the project proponent	Mr. JSR Raju, Director. M/s. NCC Urban Infrastructure Ltd., NCC Urban Windsor 3rd floor, New airport road, Opposite.Jakkur Aerodrome Bangalore – 560 064.
2		Name & location of the project	Proposed Development " Commercial Office Complex", Sy. No. 92/2,105/1P & 105/2P, Munnekallal village, Outer Ring road Varthur Hobli, Bangalore 560 037
3		Co – ordinates of the project site	Latitude: 12° 57'14.33"N Longitude: 77° 42'3.3" E
4		Environmental sensitivity	
	a.	Distance from periphery of the nearest lake and other water bodies (lake, rajakaluve, nala, etc.,)	The proposed project site is within the NGT Norms: Nearest lake to the project site is Munnekallal lake: at a distance of 3700 m from the project site as per the Google map.
	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	NA
5		Type of development	
	a.	New/ Expansion/Modification	New
	b.	Residential apartment /Villas/ Row houses/ Vertical development / Office/ IT /ITES/ Mall/ Hotel/ Hospital/ other	Proposed Development "Commercial Office Complex"
	c.	Residential township / Area development projects	--
6		Plot area (Sqmt)	8,607.67 sq.mt.
7		Built up area (Sqmt)	43,753.98 sq.mt.

8	Building configuration (number of blocks/ towers/ wings etc., with numbers of basement and upper floor)	3BF + GF + 6 UF
9	Number of units in case of construction projects	--
10	Number of plots in case of Residential township /Area development projects	--
11	Project cost (Rs. In Crores)	Rs. 43,48,11,797 (Rs. 43.48Crores)
12	Residential area in case of residential projects/ townships	--
13	Details of land use (Sqmt)	
a.	Ground coverage area	3,832.13 sq.mt. (44.52 %)
b.	Kharab land	--
c.	Total green belt on mother earth for projects under 8(a) of the schedule of the EIA notification, 2006	1056 sq.mt. (12.5 %)
d.	Internal roads	3719.54 sq.mt.(43.21 %)
e.	Paved area	
f.	Other specify	
g.	Parks & open space in case of residential township/ area development projects	--
h.	Total	8,607.67 sq.mt. (100 %)
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	300 cum
b.	Total quantity of excavated earth	66,933.139 cum
c.	Quantity of excavated earth propose to be used in the project site (in cubic meter)	66,933.139 cum
d.	Excess excavated earth (in cubic meter)	--
e.	Plan for scientific disposal of excess excavated earth along with co-ordinate of the site proposed for such disposal	--
15	WATER	
I.	Construction phase	
a.	Source of water	Sourced through tankers via external agencies& Treated water from BWSSB STP.
b.	Quantity of water for construction in KLD	10 KLD
c.	Quantity of water for domestic purpose in KLD	2.7 KLD
d.	Wastewater generation in KLD	2.16 KLD
e.	Treatment facility proposed and scheme of disposal of treated water	The total domestic wastewater generated during construction phase will be collected in Septic tank and

			lifted to BWSSB STP for treatment.
	II.	Operation phase	
	a.	Total requirement of water in KLD	150 KLD
	b.	Source of water	BWSSB
	c.	Waste water generation in KLD	120 KLD
	d.	STP capacity	135KLD
	e.	Technology employed for treatment	SBR
	f.	Scheme of disposal of excess treated water if any	--
16		Infrastructure for rain water harvesting	
	a.	Capacity of sump tank to store the roof run off	95 cum roof top water collection sump
	b.	No's of ground water recharge pits	Total number of deep recharge pits proposed: 18 Nos. 600 mm Cover slab 1200 mm Dia 3.0m Depth.
17		Strom water management plan	Total 97 m^3 roofrain water collection sump, deeprecharge pits will be provided all along the storm water drain. Excess runoff will be routed to the external storm water drain.
18		WASTE MANAGEMENT	
	I.	Construction phase	
	a.	Quantity of solid waste generation and mode disposal as per norms	Total solid waste generation will be 6kg/day; which will be disposed by contractor
	II	Operational phase	
	a.	Quantity of biodegradable waste generation and mode of disposal as per norms	106.49 kg /day; which will be processed in proposed organic waste converter.
	b.	Quantity of non-biodegradable waste generation and mode of disposal as per norms	319.48 kg/day; which will be handed over to the recyclers.
	c.	Quantity of hazardous waste generation and mode of disposal as per norms	--
	d.	Quantity of E- waste generation and mode of disposal as per norms	--
19		POWER	
	a.	Total power requirement –operational phase	2500 KW
	b.	Numbers of DG set and capacity in KVA for standby power supply	750 KVA X 4 No.
	c.	Details of fuel used for DG set	404 liters/hr of diesel
	d.	Energy conservation plan and percentage of savings including plan for utilization of solar energy a per ECBC 2007	Total energy savings will be 24.17 %.
20		PARKING	
	a.	Parking requirement as per norms	Car parking required: 528cars Car parking provided: 562cars
	b.	Level of service (LOS) of the connecting roads as per the traffic study report	Outer Ring Road: Towards Marathahalli: ROW of 45m, (2+2) SR Towardssilkboard: ROW of 45m, (2+2)

			SR
	c.	Internal road width (RoW)	Internal driveway within the project site: 6.1 m wide Approach road width: (Outer Ring Road): ROW 45 m
21	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 228th meeting held on 8-8-2019 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 provided during the meeting. As seen from the village survey map that there are no water bodies either in the form of lake or natural nalas which attracts buffer as per norms.

The proponent has stated that he will rework the water balance chart for storing entire water generated from terrace area as well as paved and open area by constructing seperate storage tanks. He has also stated that he will change the HVAC from water cooled to air cooled for 100% of their load in order to reuse the 16 KLD saved from HVAC consumption and reduce the fresh water demand by going for triple line plumbing system.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance subject to submission of the following informations:

1) Separate rain water harvesting storage sumps to store water from terrace area and paved area may be detailed and treatment scheme may be worked out and submitted.
2) Resubmit the STP flow chart with ozonisation for sullage and sewage separately as stated by the proponent and design parameters shall be submitted to restrict demand on fresh water to minimum.
3) ECBC compliance shall be worked out and submitted.
4) Water balance chart shall be reworked and submitted.

The committee also imposed the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.

3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
5. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

ToR Proposals:

228.27 Proposed Expansion of Azim Premji University in Survey Nos.5 3, 54, 58, 59/2, 59/3, 60/1, 60/2, 60/3, 60/4, 60/5, 62, 64/1, 64/2, 65, 66, 67, 68, 69/1, 69/2, 70/1, 70/2, 70/3, 71/1, 72/1, 72/2, 72/3 ,73, 76/1, 77 located at Buragunte Village, Anekal Taluk, Bengaluru Urban District, **by M/s. Azim Premji University (SEIAA 104 CON 2019)**

<table>
<tr><td>Sl. No</td><td>PARTICULARS</td><td>INFORMATION</td></tr>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td>M/s. Azim Premji University
No. 134, Doddakanahalli, Next to Wipro Corporate Office, Sarjapura Main Road Bengaluru – 560034.</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>M/s. Azim Premji University
Survey Nos. - 53, 54, 58, 59/2, 59/3, 60/1, 60/2, 60/3, 60/4, 60/5, 62, 64/1, 64/2, 65, 66, 67, 68, 69/1, 69/2, 70/1, 70/2, 70/3, 71/1, 72/1, 72/2, 72/3, 73, 76/1, 77, Buragunte Village, Sarjapura Hobli, Anekal Taluk, Bengaluru District.</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td>
<table>
<tr><td colspan="3">Geographical Co-ordinates</td></tr>
<tr><td>Sr.No</td><td>Northing</td><td>Easting</td></tr>
<tr><td>1</td><td>N 142°18'50"</td><td>E 80°13'61.20"</td></tr>
<tr><td>2</td><td>N 142°17'46"</td><td>E 80°12'51.30"</td></tr>
<tr><td>3</td><td>N 142°16'72"</td><td>E 80°11'57"</td></tr>
<tr><td>4</td><td>N 142°16'46"</td><td>E 80°12'17.60"</td></tr>
<tr><td>5</td><td>N 142°14'82"</td><td>E 80°11'36.30"</td></tr>
<tr><td>6</td><td>N 142°14'41"</td><td>E 80°12'20.80"</td></tr>
<tr><td>7</td><td>N 142°13'63"</td><td>E 80°12'05.80"</td></tr>
<tr><td>8</td><td>N 142°13'89"</td><td>E 80°10'89.10"</td></tr>
<tr><td>9</td><td>N 142°12'04"</td><td>E 80°10'70.40"</td></tr>
<tr><td>10</td><td>N 142°12'02"</td><td>E 80°11'96.90"</td></tr>
<tr><td>11</td><td>N 142°11'81"</td><td>E 80°13'18.20"</td></tr>
<tr><td>12</td><td>N 142°11'59"</td><td>E 80°14'00.60"</td></tr>
</table>
</td></tr>
</table>

		13	N 142°12'37"	E 80°14'02.10"	
		14	N 142°12'18"	E 80°15'29.60"	
		15	N 142°12'91"	E 80°15'38.40"	
		16	N 142°12'79"	E 80°15'98.10"	
		17	N 142°12'54"	E 80°15'88.40"	
		18	N 142°12'41"	E 80°16'52.60"	
		19	N 142°12'37"	E 80°17'26.80"	
		20	N 142°12'77"	E 80°17'33.60"	
		21	N 142°12'80"	E 80°17'24.30"	
		22	N 142°14'02"	E 80°17'41.20"	
		23	N 142°14'50"	E 80°17'53.70"	
		24	N 142°14'59"	E 80°17'19.80"	
		25	N 142°14'93"	E 80°17'64.40"	
		26	N 142°15'02"	E 80°17'31.10"	
		27	N 142°15'20"	E 80°17'71.20"	
		28	N 142°15'28"	E 80°17'38"	
		29	N 142°15'57"	E 80°17'79.30"	
		30	N 142°15'64"	E 80°17'46.10"	
		31	N 142°16'89"	E 80°18'10"	
		32	N 142°17'72"	E 80°15'16.40"	

4	Environmental Sensitivity		
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	The project is located at a distance of (aerial distance) Buragunte Lake (Adjacent to the project site towards South) Billapura Lake (2.9 Km towards South-West) Bidaraguppe Lake (10 Km towards South)
	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.	Not Applicable
5	Type of Development		
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	University Campus
	b.	Residential Township/ Area Development Projects	Not Applicable
6	Plot Area (Sqm)		2,88,943.14 Sqm (71.40 Acres)
7	Built Up area (Sqm)		2,56,771.87 Sq m

8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Phase – 2 (Exapansion) School Building : G + 2 Health Care & Gym : G + 5 UF Employees Residence : B + G + 40 UF Universal Hostel : B + G + 40UF Security Cabin 1 : 1 G Security Cabin 2 : 2 G Cafeteria : 1 G Mumty and WTP : G
9	Number of units in case of Construction Projects	8 Units in expansion phase
10	Number of Plots in case of Residential Township/ Area Development Projects	Not Applicable
11	Project Cost (Rs. In Crores)	1148.5 Crores
12	Recreational Area in case of Residential Projects / Townships	Not Applicable
13	Details of Land Use (Sqm)	
a.	Ground Coverage Area	30490.17 Sqm
b.	Kharab Land	8093.65 (B-Kharab)
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	1,12,582 Sqm (40%)
d.	Internal Roads	20,678.99 Sqm
e.	Paved area	–
f.	Others Specify	–
g.	Parks and Open space in case of Residential Township/ Area Development Projects	16,772.64
h.	Total	
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	Since it is an expansion project, there are no debris from demolition and hence Not Applicable.
b.	Total quantity of Excavated earth	2,10,929.52 Cum

	(in cubic meter)			
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	2,10,929.52 Cum		
d.	Excess excavated earth (in cubic meter)	Not Applicable		
e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	All the Excavated Earth shall be scientifically disposed within the project site.		
15	WATER			
I.	Construction Phase			
a.	Source of water	Water Tankers		
b.	Quantity of water for Construction in KLD	52 KLD		
c.	Quantity of water for Domestic Purpose in KLD	Water Tanker		
d.	Waste water generation in KLD	47 KLD		
e.	Treatment facility proposed and scheme of disposal of treated water	--		
II.	Operational Phase			
a.	Total Requirement of Water in KLD	Fresh	800 KLD	
		Recycled	--	
		Total	800KLD	
b.	Source of water	Rain Water Harvesting		
c.	Waste water generation in KLD	760 KLD		
d.	STP capacity	800 KLD		
e.	Technology employed for Treatment	Membrane Batch Reactor		
f.	Scheme of disposal of excess treated water if any	Waste water shall be recycled completely and its a Zero discharge project.		
16	Infrastructure for Rain water harvesting			
a.	Capacity of sump tank to store Roof run off	--		
b.	No's of Ground water recharge pits	84		
17	Storm water management plan	Shall be reflected in EIA Report.		
18	WASTE MANAGEMENT			
I.	Construction Phase			
a.	Quantity of Solid waste generation and mode of Disposal as per norms	Project Proponent is not providing any labour colony within the project site and hence there won't be any domestic solid waste generation		
II.	Operational Phase			

	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1400 Kg/day
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	600 Kg/day
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Hazardous wastes of small quantities like used oil, cotton waste, oil filters etc. will be generated from project due to maintenance of DG sets, which shall be disposed scientifically to KSPCB authorised recyclers
	d.	Quantity of E waste generation and mode of Disposal as per norms	Shall be disposed scientifically to KSPCB authorised recyclers.
19	POWER		
	a.	Total Power Requirement - Operational Phase	3550 KVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	14nos. with capacity of 4270KVA Phase 1 - 180KVA x 1No. + 250KVA x 3Nos. + 320KVA x 3Nos. + 500KVA x 1No) Phase 2 - 500 KVA x 2nos. + 320KVA x 2nos. + 120KVA x 2nos.
	c.	Details of Fuel used for DG Set	HSD
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Low loss Copper wound Transformers. HF Ballast in place of conventional ballast T5/T8/LED Lights for lighting against conventional fluorescent lamps.
20	PARKING		
	a.	Parking Requirement as per norms	919
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic Density Study to be conducted.
	c.	Internal Road width (RoW)	12m and 9m

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 228th meeting held on 8-8-2019 to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form I, Conceptual plan and clarification/additional information provided during the meeting. The committee decided to recommend the proposal to SEIAA for issue of Standard ToRs and following additional ToRs to conduct the EIA studies in accordance with the EIA Notification 2006 and relevant guidelines.

1) Details of the Kharab land and its position on the village survey map may be detailed and submitted.
2) Ground water level in the study area may be studied including ground water level monitoring in OB wells from DMG.
3) Scheme for waste to energy plant to process the entire organic waste generated from the entire project.
4) Management plan to utilise the entire earth generated within the site may be worked out and submitted.
5) Utilization of the entire terrace for solar power generation as well as solar thermal for HVAC may be worked out and submitted.
6) Scheme for utilising 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 Hon'ble Supreme court 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 studies to be conducted and quantify the energy savings.
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) Possibility of going for CNG/PNG gensets may be studied and submitted.
15) Scheme for meeting out the demand for freshwater in the non rainy season particularly drought affected season may be detailed and submitted.

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

Fresh Subjects:

228.28 Proposed Building Stone Quarry Cluster Project at Sy.No.141/1 of Kusnoor Village, Kalaburagi Taluk, Kalaburagi District (3-00 Acres) **By Sri Sham Rao (SEIAA 469 MIN 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	**Sri. Sham Rao** S/o Sri. Kheeru Pawar

		Shakthi Nagar, Shabad Road Rajpura, Kalaburagi District Karnataka		
2	Name & Location of the Project	Building Stone Quarry in 3-00 Acres of Patta Land bearing Sy. No. 141/1 of Kusnoor Village in Kalaburagi Taluk& District, Karnataka		
3	Co-ordinates of the Project Site	C. P	Latitude	Longitude
		A	N 17°38'28.8"	E 77°04'49.7"
		B	N 17°38'27.0"	E 77°04'49.6"
		C	N 17°38'27.2"	E 77°04'48.6"
		D	N 17°38'26.8"	E 77°04'46.8"
		E	N 17°38'27.5"	E 77°04'43.7"
		F	N 17°38'29.1"	E 77°04'43.8"
4	Type of Mineral	Building Stone		
5	New / Expansion / Modification / Renewal	New Quarry		
6	Type of Land [Forest, Government Revenue, Gomala, Private/Patta, Other]	Patta Land		
7	Whether the project site fall within ESZ/ESA	No		
8	Area in Acres	3-00 acres		
9	Actual Depth of sand in the lease area in case of River sand	NA		
10	Depth of Sand proposed to be removed in case of River sand	NA		
11	Rate of replenishment in case of river sand mining as specified in the sustainable sand mining guideline 2016	NA		
12	Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand	NA		
13	Annual Production Proposed (Metric Tons/ CUM) / Annum	27,979 (Avg.) Tons/ Annum		

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report, approved mining plan and clarification/additional information provided during the meeting. The committee noted that this is a fresh lease involving building stone mining in patta land. The proponent has stated that he has obtained NOCs from Forest, Revenue Dept., and also obtained land conversion order. The lease has been notified on 7-9-2018.

As seen from the quarry plan there is a level difference of 8 meters within the mining area and taking this into consideration the committee opined that the proposed quantity of 62,065 cum or 1,42,750 tons can be mined safely and scientifically to a quarry pit depth of 10 meters for a plan period of five years.

As per the extended cluster sketch approved by DMG there are no other leases within the 500 meter radius. The area of this lease is being less than the threshold limit of 5 Ha., the committee decided to categorise this proposal under B2 category and proceeded with the appraisal accordingly. He has also stated that his project does not fall within the 10 KM radius from the boundary of any Wildlife sanctuary/National Park.

As far as approach road is concerned, the proponent has stated that, there is a existing cart track road to a length of 1.0 KM connecting lease area to all weather black topped road.

As far as CER is concerned the proponent has stated, that he will earmark Rs.3.00 lakhs to take up rejuvenation of Kusnoor thanda kere which is at a distance of 750 meters from the lease area.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance with the following conditions:

1. Safe drinking water has to be provided at the quarry site.
2. Dust suppression measures have to be strictly followed.

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

228.29 Proposed Building Stone Quarry Project at Sy.No.28/5 of Mandihala Village, Dharwad Taluk, Dharwad District (1-00 Acre) **By Sri Maruthi G Sangolli (SEIAA 470 MIN 2019)**

Sl. No	PARTICULARS	INFORMATION

<table>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td colspan="3">Sri Maruthi G Sangolli
Mandihala Village
Dharwad Taluk and District.</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td colspan="3">Building stone quarry of
Sri Maruthi G Sangolli
Sy. No-28/5, of Mandihala Village Dharwad Taluk,
Dharwad District, Karnataka</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td colspan="3"><table><tr><th>P.No.</th><th>Latitude</th><th>Longitude</th></tr><tr><td>X-Point</td><td>N 15°27'4.59"</td><td>E 74°53'10.60"</td></tr><tr><td>Boundary point-A</td><td>N 15°27'5.23"</td><td>E 74°53'12.68"</td></tr><tr><td>Boundary point-B</td><td>N 15°27'6.18"</td><td>E 74°53'11.18"</td></tr><tr><td>Boundary point-C</td><td>N 15°27'5.61"</td><td>E 74°53'09.09"</td></tr></table></td></tr>
<tr><td>4</td><td>Type of Mineral</td><td colspan="3">Building Stone</td></tr>
<tr><td>5</td><td>New / Expansion / Modification / Renewal</td><td colspan="3">New</td></tr>
<tr><td>6</td><td>Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]</td><td colspan="3">Patta Land</td></tr>
<tr><td>7</td><td>Whether the project site fall within ESZ/ESA</td><td colspan="3">No</td></tr>
<tr><td>8</td><td>Area in Ha</td><td colspan="3">0.404 Ha</td></tr>
<tr><td>9</td><td>Actual Depth of sand in the lease area in case of River sand</td><td colspan="3">NA</td></tr>
<tr><td>10</td><td>Depth of Sand proposed to be removed</td><td colspan="3">NA</td></tr>
<tr><td>11</td><td>Annual Production Proposed (Metric Tons/ CUM) / Annum</td><td colspan="3"><table><tr><th>Year</th><th>Saleable Building Stone in Tonnes</th></tr><tr><td>1st</td><td>11,864</td></tr><tr><td>2nd</td><td>12,077</td></tr><tr><td>3rd</td><td>12,184</td></tr><tr><td>4th</td><td>12,505</td></tr><tr><td>5th</td><td>12,719</td></tr><tr><td>Total</td><td>61,348</td></tr></table></td></tr>
<tr><td>12</td><td>Quantity of Topsoil/Over burden in cubic meter</td><td colspan="3">-</td></tr>
<tr><td>13</td><td>Mineral Waste Handled (Metric Tons/ CUM)/ Annum</td><td colspan="3">1252 tones for five years</td></tr>
<tr><td>14</td><td>Project Cost (Rs)</td><td colspan="3">10lakhs.</td></tr>
<tr><td>15</td><td colspan="4">Environmental Sensitivity</td></tr>
<tr><td></td><td>a.</td><td>Nearest Forest</td><td colspan="2"></td></tr>
<tr><td></td><td>b.</td><td>Nearest</td><td colspan="2">Mandihal 1.2 km from the proposed lease area.</td></tr>
</table>

		Human Habitation	
	c.	Educational Institutes, Hospital	Dharwad 13 km from the proposed lease area.
	d.	Water Bodies	No
	e.	Other Specify	No
16	Applicability of General Condition of the EIA Notification, 2006		
17	Details of Land Use in Acres		

Sl. No.	Particulars	Proposed land use
1	Area to be excavated	0-25
2	Storage of top soil	0-01
3	Infrastructure	0-01
4	Roads	0-02
5	Green belt	0-11
	Total	**1-00**

18	Method of Mining/ Quarrying		Method of Mining is Semi-Mechanized with Open Cast Method. The mining operation involves drilling, loading and unloading
19	Water Requirement		-
	a.	Source of water	As no surface water sources are available in the Quarry lease area. Bore well is the source of water used in the Quarry and it is borrowed from nearby village. About 3KL/day of water is proposed to be utilized for domestic purposes, sprinkling for dust suppression, Afforestation etc.
	b.	Total Requirement of Water in KLD	Dust Suppuration: 1.0 Domestic: 1.0 Green belt: 1.0 **Total: 3.0**
20	Storm water management plan		-

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report approved mining plan and clarification/additional information provided during the meeting. As per the records it is seen that the extended cluster map has not been furnished by the proponent and in the absence of the same committee could not categorise the project. Hence decided to defer the subject.

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

228.30 Proposed Granite Building Stone Quarry Project at Sy.No.54 of Mosarukunte Village, Sira Taluk, Tumkur District (2-34 Acres) **By Sri M. Suresh (SEIAA 471 MIN 2019)**

<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>Sri. M Suresh
No.950, 24th Main road, 4th Block,
Jayanagara, Bangalore-41, Karnataka.</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>"Building Stone" of Sri. M Suresh
Sy No. 54, Mosarukunte Village,
Sira Taluk, Tumkur District, Karnataka.</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td><table><tr><th>B. P. No.</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>N : 13° 48'31.1"</td><td>E : 76°48'42.5"</td></tr><tr><td>B</td><td>N : 13° 48'30.2"</td><td>E : 76°48'45.7"</td></tr><tr><td>C</td><td>N : 13° 48'26.4"</td><td>E : 76°48'45.7"</td></tr><tr><td>D</td><td>N : 13° 48'27.7"</td><td>E : 76°48'42.1"</td></tr></table></td></tr>
<tr><td>4</td><td>Type of Mineral</td><td>Building Stone Quarry</td></tr>
<tr><td>5</td><td>New / Expansion / Modification / Renewal</td><td>Renewal</td></tr>
<tr><td>6</td><td>Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]</td><td>Government Land</td></tr>
<tr><td>7</td><td>Whether the project site fall within ESZ/ESA</td><td>No</td></tr>
<tr><td>8</td><td>Area in Ha</td><td>1.14Ha</td></tr>
<tr><td>9</td><td>Actual Depth of sand in the lease area in case of River sand</td><td>NA</td></tr>
<tr><td>10</td><td>Depth of Sand proposed to be removed</td><td>It's a Building Stone quarry</td></tr>
<tr><td>11</td><td>Rate of replenishment in case of</td><td>Not Applicable</td></tr>
</table>

	river sand mining as specified in the sustainable sand mining guideline 2016			
12	Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand		Fresh Land	
13	Annual Production Proposed (Metric Tons/ CUM) / Annum		27,823 TPA	
14	Quantity of Topsoil/Over burden in cubic meter		10,550TPA top soil.	
15	Mineral Waste Handled (Metric Tons/ CUM)/ Annum		1,465 TPA	
16	Project Cost (Rs. In Crores)		1.96crores	
17	Environmental Sensitivity			
	a.	Nearest Forest	None within 10kms	
	b.	Nearest Human Habitation	Near Mosarukunte village – 0.65 Kms(NW)	
	c.	Educational Institutes, Hospital	The nearest post and telegraph office, hospital, schools, police station is situated in Sira – 11.30 kms(SE)	
	d.	Water Bodies	Mosarukunte Pond – 1.10 Kms (NW) Melekote pond - 2.40 Kms (NW)	
	e.	Other Specify	--	
18	Applicability of General Condition of the EIA Notification, 2006		NA	
19	Details of Land Use in Ha			
	a.	Area for Mining/ Quarrying	0.826	
	b.	Waste Dumping Area	0.010	
	c.	Top Soil Storage Area	--	
	d.	Mineral Storage Area		
	e.	Infrastructure Area		
	f.	Road Area		
	g.	Buffer Zone	0.304	
	h.	Unexplored area	--	
	i.	Others Specify	--	
20	Method of Mining/ Quarrying		Semi Mechanized Open quarrying excavation	
21	Rate of Replenishment in case River sand project		NA	
22	Water Requirement			
	a.	Source of water	Drinking water : Borewell from the village Dust Suppression: River Water	
	b.	Total Requirement of Water	Dust Suppression	5.8KLD

		in KLD	Domestic	0.8 KLD
			Other	1.5 KLD.
			Total	8.1KLD
23	Storm water management plan		• Drains will be constructed along the boundary of activity area • Check dams will be constructed to contain the surface run-off of the silt and sediments from the lease area during heavy rainy season	

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report, approved mining plan and clarification/additional information provided during the meeting. The committee noted that this is a old lease granted during August 2006 for a period of five years. The proponent has stated that he has carried out mining from 2006-2011 for which he has produced audit report prepared by DGM in which it is reflected that the mining has been carried out upto 2007-2008 to 2011-2012 till the end of lease period of five years. The proponent has stated that he has obtained NOC from revenue department in the year 2012 and forest NOC during the year 2018.

As seen from the quarry plan there is a level difference of 4 meters within the mining area and taking this into consideration and also the fact that he has already mined 1,990 tons or 750 cum the committee opined that the proposed quantity of 53,000 cum or 1,39,117 tons can be mined safely and scientifically to a quarry pit depth of 10 meters for a plan period of five years.

Since this lease was granted prior to 9-9-2013, proponent has claimed exemption from the cluster effect. He has also stated that his project does not fall within the 10 KM radius from the boundary of any Wildlife sanctuary/National Park.

As far as approach road is concerned, the proponent has stated that the road shown in the cluster map is not existing for which he has produced a report prepared by the thasildar. As per the statement of the proponent, there is a existing cart track road to a length of 600 meters connecting lease area to all weather black topped road.

As far as CER is concerned the proponent has stated, that he will earmark Rs.3.00 lakhs to take up rejuvenation of Mosarukunte pond which is at a distance of 1.05 KM from the lease area.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance with the following conditions:

1. Safe drinking water has to be provided at the quarry site.
2. Dust suppression measures have to be strictly followed.

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

228.31 Proposed Building Stone Quarry Project at Sy.No.223/3 of Mugad Village, Dharwad Taluk, Dharwad District (1-00 Acre) By **Sri K. Rajesh Aithal (SEIAA 472 MIN 2019)**

<table>
<tr><td>Sl. No</td><td>PARTICULARS</td><td>INFORMATION</td></tr>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td>Sri K Rajesh Aithal
Arunodaya Building
Sadanakeri 2nd Cross,
Dharwad – 580 008</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>Building stone quarry of
Sri. K Rajesh Aithal
Sy. No-223/3, of Mugad Village Dharwad Taluk,
Dharwad District, Karnataka</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td><table><tr><td>P.No.</td><td>Latitude</td><td>Longitude</td></tr><tr><td>X-Point</td><td>N 15°26'47.90"</td><td>E 74°53'22.20"</td></tr><tr><td>Boundary point-A</td><td>N 15°26'48.17"</td><td>E 74°53'24.83"</td></tr><tr><td>Boundary point-B</td><td>N 15°26'49.80"</td><td>E 74°53'24.60"</td></tr><tr><td>Boundary point-C</td><td>N 15°26'49.60"</td><td>E 74°53'22.00"</td></tr></table></td></tr>
<tr><td>4</td><td>Type of Mineral</td><td>Building Stone</td></tr>
<tr><td>5</td><td>New / Expansion / Modification / Renewal</td><td>New</td></tr>
<tr><td>6</td><td>Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]</td><td>Patta Land</td></tr>
<tr><td>7</td><td>Whether the project site fall within ESZ/ESA</td><td>No</td></tr>
<tr><td>8</td><td>Area in Ha</td><td>0.404 Ha</td></tr>
<tr><td>9</td><td>Actual Depth of sand in the lease area in case of River sand</td><td>NA</td></tr>
<tr><td>10</td><td>Depth of Sand proposed to be removed</td><td>NA</td></tr>
<tr><td>11</td><td>Annual Production Proposed (Metric Tons/ CUM) / Annum</td><td><table><tr><td>Year</td><td>Saleable Building Stone in Tonnes</td></tr><tr><td>1st</td><td>13,045</td></tr><tr><td>2nd</td><td>13,232</td></tr></table></td></tr>
</table>

			3rd	13,326
			4th	13,607
			5th	13,701
			Total	66,911
12	Quantity of Topsoil/Over burden in cubic meter	-		
13	Mineral Waste Handled (Metric Tons/ CUM)/ Annum	1366 tones for five years		
14	Project Cost (Rs)	10lakhs.		
15	Environmental Sensitivity			
	a. Nearest Forest			
	b. Nearest Human Habitation	Mandihal 0.6 km from the proposed lease area.		
	c. Educational Institutes, Hospital	Dharwad 10.9 km from the proposed lease area.		
	d. Water Bodies	No		
	e. Other Specify	No		
16	Applicability of General Condition of the EIA Notification, 2006			
17	Details of Land Use in Acres			

Sl. No.	Particulars	Proposed land use
1	Area to be excavated	0-25
2	Storage of top soil	0-01
3	Infrastructure	0-01
4	Roads	0-02
5	Green belt	0-11
Total		1-00

18	Method of Mining/ Quarrying	Method of Mining is Semi-Mechanized with Open Cast Method. The mining operation involves drilling, loading and unloading		
19	Water Requirement			
	a. Source of water	As no surface water sources are available in the Quarry lease area. Bore well is the source of water used in the Quarry and it is borrowed from nearby village. About 3KL/day of water is proposed to be utilized for domestic purposes, sprinkling for dust suppression, Afforestation etc.		
	b. Total Requirement of Water in KLD	Dust Suppuration	1.0	
		Domestic	1.0	
		Green belt	1.0	
		Total	3.0	
20	Storm water	-		

	management plan	

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report, approved mining plan and clarification/additional information provided during the meeting. The committee noted that this is a fresh lease involving building stone mining in patta land. The proponent has stated that he has obtained NOCs from Forest, Revenue Dept., and also obtained land conversion order. The lease has been notified on 20-4-2019.

As seen from the quarry plan there is a level difference of 2 meters within the mining area and taking this into consideration the committee opined that 80% of the proposed quantity of 25,668 cum or 68,277 tons can be mined safely and scientifically to a quarry pit depth of 12 meters for a plan period of five years.

As per the cluster sketch approved by DMG there are no other leases within the 500 meter radius. The area of this lease is being less than the threshold limit of 5 Ha., the committee decided to categorise this proposal under B2 category and proceeded with the appraisal accordingly. He has also stated that his project does not fall within the 10 KM radius from the boundary of any Wildlife sanctuary/National Park.

As far as approach road is concerned, the proponent has stated that, there is a existing cart track road to a length of 0.70 KM connecting lease area to all weather black topped road.

As far as CER is concerned the proponent has stated, that he will earmark Rs.2.00 lakhs to take up rejuvenation of Mugad lake which is at a distance of 0.90 KM from the lease area.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance with the following conditions:

1. Safe drinking water has to be provided at the quarry site.
2. Dust suppression measures have to be strictly followed.

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

228.32 Proposed Building Stone Quarry Project at Sy.No.27 of Sulthanpur Village, Koppal Taluk & District (1-00 Acre) **By M/s. Sai Mahalakshmi Stone Crusher (SEIAA 473 MIN 2019)**

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report approved mining plan and clarification/additional information provided during the meeting. The committee noted that this is a fresh lease involving building stone mining in government land. The proponent has stated that he has obtained NOCs from Forest and Revenue Department.

As per the extended combined sketch prepared by the DMG there are seven leases including this, the total area of which works out to 13Acres 5 guntas out of which four leases with a combined area of 10 Acres 5 guntas were issued EC on 8-12-2015 i.e. prior to 15-1-2016 and based on this proponent has claimed exemption from cluster effect and the other three leases whose combined area is 3 Acres which being less than the threshold limit of 5 Ha, the committee decided to categorise under B2 and proceeded with the appraisal accordingly.

Further, as seen from the quarry plan the mandated buffer zone has not been left all round the lease area for which the proponent has stated that he will come back after getting rectified mining plan. Hence committee decided to defer the subject.

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

228.33 Proposed Building Stone (Basalt) Quarry Project at Sy.No.191/5 of Kamalngar Village, Kamalnagar Taluk, Bidar District (3-02 Acres) **By Sri Prakash Tonnes (SEIAA 474 MIN 2019)**

The proposal was placed before the committee for appraisal.

The proponent was invited for the 228th meeting held on 8-8-2019 to provide required clarification. The proponent remained absent without intimation.

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

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

228.34 Proposed Building Stone Quarry Project at Sy.No.27 of Sulthanpur Village, Koppal Taluk & District (1-00 Acre) **By M/s. Kanakasri Stone Crusher(SEIAA 475 MIN 2019)**

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report approved mining plan and clarification/additional information provided during the meeting. As seen from the quarry plan the mandated buffer zone has not been left all round the lease area for which the proponent has stated that he will come back after getting rectified mining plan. Hence committee decided to defer the subject.

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

228.35 Proposed Building Stone Quarry Project at Sy.No.89/3 of Kadanakoppa Village, Kalaghatgi Taluk, Dharwad District (1-00 Acre) **By Smt. Roopa S. Gokul(SEIAA 476 MIN 2019)**

<table>
<tr><td>Sl. No</td><td>PARTICULARS</td><td colspan="3">INFORMATION</td></tr>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td colspan="3">Smt. Roopa S. Gokul
Ugginakeri Village & post
Kalaghatgi Taluk, Dharward District,
Karnataka</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td colspan="3">"Building Stone Quarry" of
Smt. Roopa S. Gokul,
Sy No. 89/3, Kadanakoppa Village,
Kalaghatgi Taluk, Dharwad District,
Karnataka</td></tr>
<tr><td rowspan="6">3</td><td rowspan="6">Co-ordinates of the Project Site</td><td>Corner Pillar</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td>A</td><td>N 15° 16' 23.4"</td><td>E 75° 01' 38.8"</td></tr>
<tr><td>B</td><td>N 15° 16' 23.2"</td><td>E 75° 01' 40.9"</td></tr>
<tr><td>C</td><td>N 15° 16' 20.7"</td><td>E 75° 01' 40.6"</td></tr>
<tr><td>D</td><td>N 15° 16' 20.9"</td><td>E 75° 01' 38.5"</td></tr>
<tr><td colspan="3">WGS-84 DATUM</td></tr>
<tr><td>4</td><td>Type of Mineral</td><td colspan="3">Building Stones</td></tr>
</table>

5	New / Expansion / Modification / Renewal		Renewal(QL No: 692-R1/15-16)
6	Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]		Patta Land
7	Whether the project site fall within ESZ/ESA		No
8	Area in Ha		0.4046Ha
9	Actual Depth of sand in the lease area in case of River sand		NA
10	Depth of Sand proposed to be removed		NA
11	Rate of replenishment in case of river sand mining as specified in the sustainable sand mining guideline 2016		It's a Building Stone Quarry
12	Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand		It's a Building Stone Quarry
13	Annual Production Proposed (Metric Tons/ CUM) / Annum		30,000Tons/annum
14	Quantity of Topsoil/Over burden in cubic meter		There is Notopsoil Available in this area.
15	Mineral Waste Handled (Metric Tons/ CUM)		1,579Tons/annum
16	Project Cost (Rs. In Crores)		0.75crores
17	Environmental Sensitivity		
	a.	Nearest Forest	None within 15kms
	b.	Nearest Human Habitation	Kadanakoppa Village -2.00 kms (S)
	c.	Educational Institutes, Hospital	Khalaghatgi –11.45 kms (SW)
	d.	Water Bodies	Ramteerth Lake-4.70Kms(SE) Devargudihal Lake-6.60Kms(N)
	e.	Other Specify	--
18	Applicability of General Condition of the EIA Notification, 2006		--
19	Details of Land Use in Acres		
	a.	Area for Mining/ Quarrying	0-18
	b.	Waste Dumping Area	0-06

	c.	Top Soil Storage Area	0-03	
	d.	Mineral Storage Area		
	e.	Infrastructure Area		
	f.	Road Area	0-02	
	g.	Green Belt Area/Buffer Zone	0-11	
	h.	Unexplored area	--	
	i.	Others Specify	--	
20	Method of Mining/ Quarrying		Semi Mechanised Method Open quarrying	
21	Rate of Replenishment in case River sand project		NA	
22	Water Requirement			
	a.	Source of water	Drinking water : Borewell from the village Dust Suppression: River Water	
	b.	Total Requirement of Water in KLD	Dust Suppression	9.61 KLD
			Domestic	1.26 KLD
			Other	0.80 KLD
			Total	11.6 KLD
23	Storm water management plan		Drains will be constructed along the boundary of activity area	
24	Any other information specific to the project (Specify)		NA	

The proposal was placed before the committee for appraisal.

The proponent was invited for the 228th meeting held on 8-8-2019 to provide required clarification. The proponent remained absent without intimation.

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

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

228.36 Proposed Building Stone Quarry Project at Sy.No.27 of Sulthanpur Village, Koppal Taluk & District (1-00 Acre) **By M/s. Sai Vinayaka Stone Crusher(SEIAA 477 MIN 2019)**

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report approved mining plan and

clarification/additional information provided during the meeting. As seen from the quarry plan the mandated buffer zone has not been left all round the lease area for which the proponent has stated that he will come back after getting rectified mining plan. Hence committee decided to defer the subject.

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

228.37 Proposed Building Stone / M-Sand Quarry Project at Sy.No.38 (Part) of Swandenahalli Village, Kasaba Hobli, Tumakuru Taluk & District (0-20 Acre) **By Sri Sundresh K (SEIAA 478 MIN 2019)**

<table>
<tr><td>Sl. No</td><td>PARTICULARS</td><td>INFORMATION</td></tr>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td>Sri Sundresh K
S/o Late R Kannappa,
Antharasanahalli Arakere Post,
Tumakuru Taluk, Tumakuru District,
Karnataka-572106</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>"Building Stone/M-Sand Quarry"
Sy.No 38(part) Swandenahalli Village,
Kasaba Hobli, Tumakuru Taluk & District ,
Karnataka.</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td><table><tr><th>Corner Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>BP-A</td><td>N 13^{0}23'37.1"</td><td>E 77^0 08'47.8"</td></tr><tr><td>BP-B</td><td>N 13^{0}23'37.0"</td><td>E 77^0 08'48.9"</td></tr><tr><td>BP-C</td><td>N 13^{0}23'34.5"</td><td>E 77^0 08'48.9"</td></tr><tr><td>BP-D</td><td>N 13^{0}23'34.6"</td><td>E 77^0 08'47.9"</td></tr></table></td></tr>
<tr><td>4</td><td>Type of Mineral</td><td>Building Stone Quarry</td></tr>
<tr><td>5</td><td>New / Expansion / Modification / Renewal</td><td>New</td></tr>
<tr><td>6</td><td>Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]</td><td>Government Land</td></tr>
<tr><td>7</td><td>Whether the project site fall within ESZ/ESA</td><td>No</td></tr>
<tr><td>8</td><td>Area in Ha</td><td>0.2023 Ha</td></tr>
<tr><td>9</td><td>Actual Depth of sand in the lease area in case of River sand</td><td>NA</td></tr>
<tr><td>10</td><td>Depth of Sand proposed to be removed</td><td>It's a Building Stone quarry</td></tr>
<tr><td>11</td><td>Rate of replenishment in case of river sand mining as specified in</td><td>Not Applicable For Government land</td></tr>
</table>

	the sustainable sand mining guideline 2016			
12	Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand		Fresh Land	
13	Annual Production Proposed (Metric Tons/ CUM) / Annum		2,513 TPA	
14	Quantity of Topsoil/Over burden in cubic meter		No top soil.	
15	Mineral Waste Handled (Metric Tons/ CUM)/ Annum		51 TPA	
16	Project Cost (Rs. In Crores)		0.63crores	
17	Environmental Sensitivity			
	a.	Nearest Forest	Devarayanadurga State forest-2.32Kms(SE)	
	b.	Nearest Human Habitation	Swandenahalli- 1.15Kms(SE)	
	c.	Educational Institutes, Hospital	The nearest post and telegraph office, hospital, schools, police station is situated in Tumkur-9Kms(SW)	
	d.	Water Bodies	Amani Kere-5.51Kms(SW) Kora Amani Kere-7.03Kms(NW) Hebbaka Amani Kere-8.01Kms(NW)	
	e.	Other Specify	--	
18	Applicability of General Condition of the EIA Notification, 2006		NA	
19	Details of Land Use in Acres			
	a.	Area for Mining/ Quarrying	0-08	
	b.	Waste Dumping Area	--	
	c.	Top Soil Storage Area	0-01	
	d.	Mineral Storage Area	0-01	
	e.	Infrastructure Area	0-01	
	f.	Road Area	0-01	
	g.	Buffer Zone	0-09	
	h.	Unexplored area	--	
	i.	Others Specify	--	
20	Method of Mining/ Quarrying		Semi Mechanized Open quarrying excavation	
21	Rate of Replenishment in case River sand project		NA	
22	Water Requirement			
	a.	Source of water	Drinking water : Borewell from the village Dust Suppression: River Water	
	b.	Total Requirement of Water	Dust Suppression	8.8KLD

		in KLD	Domestic	0.8 KLD
			Other	0.5 KLD
			Total	10.1 KLD
23	Storm water management plan		• Drains will be constructed along the boundary of activity area • Check dams will be constructed to contain the surface run-off of the silt and sediments from the lease area during heavy rainy season	

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 228th meeting held on 8-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report approved mining plan and clarification/additional information provided during the meeting. As seen from the records this is a proposal involving building stone mining in a lease area of 20 guntas and the in the quarry plan the mode of mining mentioned is controlled blasting and semi mechanized. The committee after discussion and deliberation decided to that the scientific mining through controlled blasting and semi mechanized cannot be carried out scientifically and safely for which the proponent has stated that he being the traditional stone breaker and he will get the mode of mining changed from semi mechanized to manual mining in which mode he normally operates the mining. Hence the committee decided to defer.

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

With the permission of Chairman:

228.38 Proposed "Natural Sand Quarry" in patta land over an extent of 5-05 Acres adjacent to Sy.No.86/7 of Machenahalli Village, Molkalamuru Taluk, Chitradurga District **by N.R Ramesh Babu (SEIAA 549 MIN 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Sri N R Ramesh Babu S/o Ramanna, Ramapura Post, Molakalmuru Taluk, Chitradurga District
2	Name & Location of the Project	"Natural Sand Quarry" in patta land over an extent of 5-05 Acres adjacent to Sy. No. 86/7 of Machenahalli Village, Molakalmuru Taluk, Chitradurga District

3	Co-ordinates of the Project Site	Latitude / Longitude 14° 49' 18.1" / 76° 49' 22.6" 14° 49' 15.9" / 76° 49' 23.2" 14° 49' 18.3" / 76° 49' 34.7" 14° 49' 20.4" / 76° 49' 34.2"
4	Type of Project	Natural Sand Quarry
5	New / Expansion / Modification / Renewal	New
6	Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]	Patta Land
7	Whether the project site fall within ESZ/ESA	No
8	Area in Ha	2.073 Ha
9	Actual Depth of sand in the lease area in case of River sand	NA
10	Depth of Sand proposed to be removed in case of River sand	3.0m
11	Rate of replenishment in case of river sand mining as specified in the sustainable sand mining guideline 2016	Patta Land
12	Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand	Fresh Land
13	Annual Production Proposed (Metric Tons/ CUM) / Annum	Production is 44,115 tonnes/annum of sand.
14	Quantity of Topsoil/Over burden in cubic meter	It is a Sand Quarry
15	Mineral Waste Handled (Metric Tons/ CUM)/ Annum	--
16	Project Cost (Rs. In Crores)	0.55crores
17	Environmental Sensitivity	
	a. Nearest Forest	Santegudda Reserved Forest - 6.00 kms(NW)
	b. Nearest Human Habitation	Machenahalli - 0.40 Kms(E)
	c. Educational Institutes, Hospital	The nearest post and telegraph office, hospital, schools, police station is situated in Molakalmuru - 13.6kms (SW)

	d.	Water Bodies	Its located in ChinnaHagari River – 1.20 kms(NW)	
	e.	Other Specify	--	
18	Applicability of General Condition of the EIA Notification, 2006		NA	
19	Details of Land Use in Acres			
	a.	Area for Mining/ Quarrying	4-13	
	b.	Waste Dumping Area	0-00	
	c.	Top Soil yard		
	d.	Mineral Storage Area	0-00	
	e.	Infrastructure Area	0-00	
	f.	Road Area	0-01	
	g.	Buffer Area	0-00	
	h.	Unexplored area	0-31	
	i.	Others Specify	--	
20	Method of Mining/ Quarrying		Semi Mechanised Method	
21	Rate of Replenishment in case River sand project		NA	
22	Water Requirement			
	a.	Source of water	Borewell from the village	
	b.	Total Requirement of Water in KLD	Dust Suppression	4.76KLD
			Domestic	0.52KLD
			Other	0.22 KLD
			Total	**5.5 KLD**
23	Storm water management plan		Drains will be constructed along the boundary of activity area	
24	Any other information specific to the project (Specify)		NA	

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 228th meeting held on 6-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report, approved mining plan and clarification/additional information provided during the meeting. During the appraisal committee took note of the Hon'ble supreme court direction in response to PIL filed in respect of sand mining wherein court has directed to issue notices to Union Government for their comments to be submitted within four weeks. Since there is no restraint at this stage to consider the proposal, the committee proceeded with the appraisal.

The committee noted that this is a fresh sand quarry lease in patta land. The proponent has stated that he has obtained NOCs from Forest, Revenue Departments and applied for land conversion order and also he has stated that the quarry plan has also been got approved from the DMG. The project is located at a distance of 1.2 KM from Chinnahagari. The average top level of the sand block is 494 meters. The depth of mining is 3.5 meters including 0.5 meter depth of top soil and the proponent has stated that he will take up mining subdividing the mining block into two sub blocks and taking up mining in each block every year and the top soil generated will be stored in the untackled sub block and the mining in the untackled sub block will be taken up after clearing the top soil and utilizing the topsoil for filling the tackled block. Taking this into consideration the proposed quantity of 51,900 cum or 88,230 tons for a plan period of two years can be mined safely and scientifically.

The proponent has also stated that he will build a cart track road to a length of 260 meters joining the lease area to all weather road in the private patta lands for which an MOU with the land owner has already been obtained. The proponent has also stated that he will establish a stock yard on a private land for which also MOU with the land owners has been obtained. The proponent has stated that there are no eco-sensitive zone within the radius of 10 KM from the boundary of lease area.

The proponent has also submitted combined sketch prepared by the DMG wherein it has stated that there are no other leases within the 500 meter radius from the lease area and this being less than the threshold limit of 5 Ha., the committee decided to categorise this proposal under B2 category and proceeded with the appraisal accordingly.

As far as CER is concerned the proponent has stated that he has earmarked Rs.3.00 lakhs to take up water supply works, sanitation works and plantation of trees in the premises of Gudekote Ashrama School which is at a distance of 25 KMs from the lease area.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance with the following conditions:

1. Safe drinking water has to be provided at the quarry site.
2. Dust suppression measures have to be strictly followed.

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

228.39 Proposed Grey Granite Quarry over an extent of 3-00 Acre at Sy.No.7, Honnampalli village, Bagepalli Taluk, Chickballapur District by **M/s. H.V.R Enterprises (SEIAA 537 MIN 2019)**

<table>
<tr><td>Sl. No</td><td>PARTICULARS</td><td>INFORMATION</td></tr>
<tr><td>1</td><td>Name & Address of the Project Proponent</td><td>Sri H G Girish
S/o.H.V.Chikkagariga Reddy
Haristhala, Chikkapyalagurki,
Chikkaballapur, Karnataka - 562104</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>"Grey Granite Quarry" of
M/S. H. V. R. ENTERPRISES
Sy. No: 7, Honnampalli Village,
Bagepalli Taluk, Chickballapur District,
Karnataka</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td><table><tr><th>P No</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>N 13° 54' 40.0"</td><td>E 77° 51' 51.2"</td></tr><tr><td>B</td><td>N 13° 54' 38.2"</td><td>E 77° 51' 55.9"</td></tr><tr><td>C</td><td>N 13° 54' 35.8"</td><td>E 77° 51' 54.9"</td></tr><tr><td>D</td><td>N 13° 54' 32.6"</td><td>E 77° 51' 50.2"</td></tr><tr><td colspan="3">G.P.S READINGS WGS 84</td></tr></table></td></tr>
<tr><td>4</td><td>Type of Project</td><td>Grey Granite Quarry</td></tr>
<tr><td>5</td><td>New / Expansion / Modification / Renewal</td><td>Renewal(QL No-56)</td></tr>
<tr><td>6</td><td>Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]</td><td>Government GomalaLand</td></tr>
<tr><td>7</td><td>Whether the project site fall within ESZ/ESA</td><td>No</td></tr>
<tr><td>8</td><td>Area in Ha</td><td>1.21 Ha</td></tr>
<tr><td>9</td><td>Actual Depth of sand in the lease area in case of River sand</td><td>NA</td></tr>
<tr><td>10</td><td>Depth of Sand proposed to be removed in case of River sand</td><td>NA</td></tr>
<tr><td>11</td><td>Rate of replenishment in case of river sand mining as specified in the sustainable sand mining guideline 2016</td><td>It's Grey Granite Quarry</td></tr>
<tr><td>12</td><td>Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand</td><td>Not worked</td></tr>
</table>

13	Annual Production Proposed (Metric Tons/ CUM) / Annum		Grey Granite quarrying 28,800 Cubic meters/Annum	
14	Quantity of Topsoil/Over burden in cubic meter		No topsoil to be proposed during plan period	
15	Mineral Waste Handled (Metric Tons/ CUM)/ Annum		19,200 Cubic meters/Annum of rejects which can be used as Building Stone.	
16	Project Cost (Rs. In Crores)		2.16crores	
17	Environmental Sensitivity			
	a.	Nearest Forest	Itikaldurga State Forest Block - 1 – 1.20 kms(E)	
	b.	Nearest Human Habitation	Honnampalli -1.43 Km (S)	
	c.	Educational Institutes, Hospital	The nearest post and telegraph office, hospital, schools, police station is situated in Bagepalli – 15.6Kms (SW)	
	d.	Water Bodies	Honnampalli pond – 0.70 Kms (SE) Kolimpalli Pond – 1.25 Kms(N)	
	e.	Other Specify	--	
18	Applicability of General Condition of the EIA Notification, 2006		NA	
19	Details of Land Use in Acres			
	a.	Area for Mining/ Quarrying	1-38	
	b.	Waste Dumping Area	0-02	
	c.	Top Soil yard	0-04	
	d.	Mineral Storage Area		
	e.	Infrastructure Area		
	f.	Road Area	0-02	
	g.	Green Belt Area	0-34	
	h.	Unexplored area	--	
	i.	Others Specify		
20	Method of Mining/ Quarrying		Fully Mechanised Method	
21	Rate of Replenishment in case River sand project		NA	
22	Water Requirement			
	a.	Source of water	Borewell from the village	
	b.	Total Requirement of Water in KLD	Dust Suppression	3.08KLD
			Domestic	1.22 KLD
			Other	1.5 KLD
			Total	5.8 KLD
23	Storm water management plan		Drains will be constructed along the boundary of activity area	
24	Any other information specific to the project (Specify)		NA	

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 228th meeting held on 6-8-2019 to provide clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form I, Pre-feasibility report, approved mining plan and clarification/additional information provided during the meeting. The committee noted that this is an existing lease for which lease was granted in the year 2009. The proponent has stated that he has carried out the mining from 2010-2014 and stopped mining since then till date for which the proponent submitted an audit report certified by DMG.

Earlier this lease was granted for quarrying building stone and subsequently this has been converted to mining ornamental stone by C&I Dept.,

As per the quarry plan approved by DMG there is a level difference of 29 meters and taking this into consideration and also the fact that he has mined 6,700 tons or 2,523 cum of building stone from 2010 to 2014, the committee opined that 80% of the proposed gross quantity of 2,40,000 cum for a plan period of five years can be mined safely and scientifically for a quarry pit depth of 20 meter. The proponent has also stated that the percentage of recovery is 60% ie., 1,15,200 cum and the waste being 76,800 cum and it can be converted into building stone with permission from the competent authority and the same has been reflected in the approved mining plan.

The proponent has stated that since his lease was granted prior to 9-9-2013, his lease is exempted from cluster effect.

The proponent has stated that there is a existing cart track road to a length of 250 meters connecting the lease area to all weather black topped road.

As far as CER is concerned, the proponent has earmarked Rs.20.00 lakhs to take up rejuvenation Honnampalli kere which is at a distance of 700 meters from the lease area.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance with the following conditions:

1. Safe drinking water has to be provided at the quarry site.
2. Dust suppression measures have to be strictly followed.

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

Reconsiderations subjects:

228.40 Proposed Construction of "WTC Opal" at Sy.Nos.102 & 103 of Mahadevapura Village, K.R PuramHobli, Bangalore East Taluk, Bangalore **by M/s. Bagmane Developers Pvt Ltd(SEIAA 80 CON 2019)**

<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>M/s. Bagmane Developers Pvt. Ltd.
Lake View 'A' Block, 8th Floor
Bagmane Tech Park,
C.V. Raman Nagar, Bengaluru - 560093.</td></tr>
<tr><td>2</td><td>Name & Location of the Project</td><td>"Bagmane - WTC OPAL" - Proposed Commercial Building of M/s. Bagmane Developers Pvt. Ltd.,
Sy. No. 102 & 103 of Mahadevapura Village, K.R. Puram Hobli, Bengaluru East Taluk, Bengaluru.</td></tr>
<tr><td>3</td><td>Co-ordinates of the Project Site</td><td>
<table>
<tr><th>Sl.No</th><th>North Latitude</th><th>East Longitude</th></tr>
<tr><td>1</td><td>N:12°59'12.12"</td><td>E:77°41'47.05"</td></tr>
<tr><td>2</td><td>N:12°59'13.19"</td><td>E:77°41'48.51"</td></tr>
<tr><td>3</td><td>N:12°59'13.52"</td><td>E:77°41'50.00"</td></tr>
<tr><td>4</td><td>N:12°59'9.88"</td><td>E:77°41'50.10"</td></tr>
<tr><td>5</td><td>N:12°59'9.63"</td><td>E:77°41'47.36"</td></tr>
</table>
</td></tr>
<tr><td>4</td><td colspan="2">Environmental Sensitivity</td></tr>
<tr><td>a.</td><td>Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)</td><td>• Lake – 0.11 km towards NNE
• Nakkundi Lake – 0.45 km towards NW</td></tr>
<tr><td>b.</td><td>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.</td><td>Not Applicable</td></tr>
<tr><td>5</td><td colspan="2">Type of Development</td></tr>
<tr><td>a.</td><td>Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other</td><td>Commercial Offices</td></tr>
<tr><td>b.</td><td>Residential Township/ Area Development Projects</td><td>--</td></tr>
</table>

6	Plot Area (Sqm)	10,509.15 Sqm
7	Built Up area (Sqm)	Total BUA = 93,417.24 Sqm
8	Building Configuration [Number of Blocks /. Towers / Wings etc., with Numbers of Basements and Upper Floors	3B +G+14 floors
9	Number of units in case of Construction Projects	--
10	Number of Plots in case of Residential Township/ Area Development Projects	--
11	Project Cost (Rs. In Crores)	**Total project Cost : 195 Crores** Land Cost : 25 Crores Construction Cost, Plant & Machinery: 170 Crores
12	Recreational Area in case of Residential Projects / Townships	--
13	**Details of Land Use (Sqm)**	
a.	Ground Coverage Area	3678.20 Sqm
b.	Kharab Land	--
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	4002.23 Sqm
d.	Internal Roads	1520 Sqm
e.	Paved area	1843 Sqm
f.	Others Specify	--
g.	Parks and Open space in case of Residential Township/ Area Development Projects	--
h.	Total	10509.15Sqm
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.	--
b.	Total quantity of Excavated earth (in cubic meter)	207000cum
c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	63600cum
	Excess excavated earth (in cubic	143400cum

	d.	meter)	
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	--
15		**WATER**	
	I.	**Construction Phase**	
	a.	Source of water	Bangalore Water Supply and Sewerage Board (BWSSB).
	b.	Quantity of water for Construction in KLD	20 KLD
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD
	d.	Waste water generation in KLD	8.5 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	Onsite sanitation facilities will be provided a disposed off in to septic tank. Also no large surface water bodies are in the vicinity.
	II.	**Operational Phase**	
	a.	Total Requirement of Water in KLD	388 KLD
	b.	Source of water	Bangalore Water Supply and Sewerage Board (BWSSB) for drinking purpose.
	c.	Waste water generation in KLD	321
	d.	STP capacity	325 KLD
	e.	Technology employed for Treatment	MBBR technology
	f.	Scheme of disposal of excess treated water if any	No excess treated water
16		**Infrastructure for Rain water harvesting**	
	a.	Capacity of sump tank to store Roof run off	140 cum
	b.	No's of Ground water recharge pits	3 No's.
17		Storm water management plan	Rainwater harvesting & storm water management plan has been proposed.
18		**Waste Management**	
	I.	**Construction Phase**	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	Solid waste from Proposed Non residential office building unit will be sent to OWC waste collection and disposal system.
	II.	**Operational Phase**	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	0.9 MT/day & will be treated in OWC.
	b.	Quantity of Non - Biodegradable	0.6 MT/day

		waste generation and mode of Disposal as per norms	Waste will be disposed by authorized recyclers.
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Disposed to pollution control board approved reprocessor.
	d.	Quantity of E waste generation and mode of Disposal as per norms	E waste will be handed over to the approved and authorized KSPCB E-Waste recyclers.
19	**Power**		
	a.	Total Power Requirement - Operational Phase	5200 KVA from BESCOM.
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	DG set of capacity 5 X 1500 KVA for back-up.
	c.	Details of Fuel used for DG Set	**HSD**
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Low loss Copper wound Transformers HF Ballast in place of conventional ballast T5/T8/LED lights for lighting against conventional fluorescent lamps. Energy Saving - 20.84 % for Commercial Offices
20	**PARKING**		
	a.	Parking Requirement as per norms	Total Car parking provided = 1215 No's.
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	--
	c.	Internal Road width (RoW)	Min 8 mtrs

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 226th meeting held on 11-7-2019 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 provided during the meeting. The committee observed from the village survey map that there is one water body on the eastern side of the project site and a nala on the northern side of the project site for which the proponent has stated that he has left the buffer zone as mandated by the Hon'ble Supreme court.

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

1) The proponent to submit the land conversion order from Residential purpose to Commercial purpose.

The proponent has submitted the replies vide letter dated:30-7-2019. The committee perused the replies submitted by the proponent and accepted the same.

The committee after discussion and deliberation decided to recommend the proposal to SEIAA for issue of Environment clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. The proponent shall adopt air cooled HVAC systems instead of water cooled HVAC systems in order to reuse the water saved and reduce the fresh water demand.
5. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
6. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
7. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.41 Proposed Residential Apartment Project at Ward No.184, Site No.4/1/4/1/5 of Uttarahalli Village, Uttarahalli Hobli, Bangalore South Taluk, Bangalore Urban District By **M/s. DEVAGIRI PROMOTERS (SEIAA 91 CON 2019)**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	M Vasu Managing partner, M/s. Devagiri Promoters No.2420, 3rd Block, Banashankari 6th Stage, Bangalore - 560 062
2	Name & Location of the Project	Proposed Residential Apartment by M/s. Devagiri Promoters, at Ward No. 184, Site No. 4/1/4/1/5, Uttarahalli Village, Uttarahalli Hobli, Bangalore South Taluk, Bangalore Urban District.
3	Co-ordinates of the Project Site	Longitude: 77°32'2.40"E

			Latitude: 12°54'14.40"N
4		Environmental Sensitivity	
	a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	UttarahalliLake–743 m (NE) Tertiary Nala is at 30 m from the project site towards East -30m
	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.	There is no lake within 75 meter from the site boundary.
5		Type of Development	
	a.	Residential group housing/ Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	ResidentialApartment
	b.	Residential Township/ Area Development Projects	No
6		Plot Area (Sqm)	6,296.18 sq.m
7		Built Up area (Sqm)	26,987.15 sq.m
8		Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Construction of Residential Apartment project comprising of 1 building having 1 Basement + Ground Floor + 6 Upper Floors + Terrace Floor with total of 168 units. The site area is 6296.18 sq.m. The Gross BUA is 26,987.15 sq.m.
9		Number of units in case of Construction Projects	Total Number of Units is 168Nos.
10		Number of Plots in case of Residential Township/ Area Development Projects	-
11		Project Cost (Rs. In Crores)	52Crores
12		Recreational Area in case of Residential Projects / Townships	Playground area – 268.5sq.m. And Senior Citizen allocated area – 203.7Sq.m.(7.5% of net plot area), Park area =652.28Sq.m. (10.36% of Net plot area);
13		Details of Land Use (Sqm)	
	a.	Ground Coverage Area	2,973.21sq.m (47.22%)
	b.	Kharab Land	Nil
	c.	Total Green belt on Mother Earth for projects under 8(a) of the	2,077.74 sq.m (33.00%)

		schedule of the EIA notification, 2006	
	d.	Internal Roads	1,245.23 (19.78%)
	e.	Paved area	-
	f.	Others Specify	-
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
	h.	Total	7,537.17sq.m.
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	No demolition is involved.
	b.	Total quantity of Excavated earth (in cubic meter)	20,775.40cu.m.
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	20,775.40cu.m.
	d.	Excess excavated earth (in cubic meter)	Nil
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	No disposal
15	WATER		
	I.	Construction Phase	
	a.	Source of water	From Nearby treated water suppliers
	b.	Quantity of water for Construction in KLD	130 KLD
	c.	Quantity of water for Domestic Purpose in KLD	10 KLD
	d.	Waste water generation in KLD	8 KLD
	e.	Treatment facility proposed and scheme of disposal of treated water	The sewage generated during the construction phase will be treated in the Mobile STP
	II.	Operational Phase	
	a.	Total Requirement of Water in KLD	Fresh: 34.73
			Recycled: 37.80+44.65=82.45
			Total: 117.18
	b.	Source of water	BWSSB

	c.	Waste water generation in KLD	111.32KLD
	d.	STP capacity	130 KLD
	e.	Technology employed for Treatment	SBR Technology
	f.	Scheme of disposal of excess treated water if any	No Disposal. The treated water will be reused for toilet flushing, landscaping in the project site, avenue plantation and Reuse after treating with ultrafiltration and reverse osmosis
16	Infrastructure for Rain water harvesting		
	a.	Capacity of sump tank to store Roof run off	161 cu.m.
	b.	No's of Ground water recharge pits	16 Nos.
17	Storm water management plan		The storm water from the site will be collected by rainwater harvesting system and will be used for recharging the ground water
18	WASTE MANAGEMENT		
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	No of labours = 100 Nos. Per capita of waste generated = 0.4 kg/day Separate collection bins will be used for organic and inorganic waste. Organic waste will be converted in organic convertor. Inorganic solid waste will be handed over to authorized recyclers.
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	201.60kg/day. Biodegradable waste will be converted in organic convertor.
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	134.40kg/day. Non- Biodegradable waste will be handed over to authorized recyclers
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Nil
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	E-waste generation will be very less
19	POWER		
	a.	Total Power Requirement - Operational Phase	750 kVA
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	1 X 750 kVA
	c.	Details of Fuel used for DG Set	HSD

	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	•Energy saved by using Solar water Heater : 25,000 kWH/ Year.....(a) • Solar Power Generation : In non-monsoon season 100kWH x 30 x 8 Months = 24,000kWH • In monsoon season 50kWH x 30 x 4 Months = 6,000 kWH • Total SPV Power Generation in a year = 0.30 L kWH / Annum.....(b) • Total Solar Energy utilization (Energy saving using solar heater and solar PV) in a year = (a)+(b)= 0.25 + 0.30 L KWH = 0.55 L / Annum .....(c) • Total energy savings = 25.11%
20	PARKING		
	a.	Parking Requirement as per norms	One car spacing for 1 units as the floor area is between 50 sq.m. to 225 sq.m = 185+10% visitors Parking required is 185+19 cars= 204Nos Total car Parking required as per NBC= 204 Parking Provided is 204 Ecs which is as Per NBC and MoEF Norms
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Dr. Vishnuvardhan Road–LOS - B
	c.	Internal Road width (RoW)	5.0 m

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 227th meeting held on 25-7-2019 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 provided during the meeting. The committee observed from the village survey map there are no water bodies either in the form of lake or natural nalas which attracts buffer as per Hon'ble Supreme Court order.

As far as CER is concerned the proponent as stated that he will earmark Rs.1.00 crores to take up restoration works in rain devastated Kodagu District in consultation with concerned authorities.

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

1) Sufficiency of 5 meter fire driveway provided may be substantiated with relevant norms and submitted.

The proponent has submitted the replies vide letter dated:5-8-2019. 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 Environmental Clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
5. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
6. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.42 Proposed Expansion of Commercial Building project(Office/Software Park) at Plot No.1A, 1B, 1C, 1C(Part) & 1D, Kadugodi Village, Sadaramangala Industrial Area, Bidarahalli Hobli, Whitefield, Bangalore East Taluk, Bangalore by M/s. Whitefield Developers(SEIAA 18 CON 2019)

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	M/s. Whitefield Developers, Unit 206, 2nd Floor, Barton Centre, 84, MG Road, Bangalore - 560 001
2	Name & Location of the Project	Proposed Expansion of Development of Commercial Building project at Plot No. 1A, 1B, 1C, 1C (Part) & 1D, Kadugodi Village, Sadaramangala Industrial Area, Bidarahalli Hobli, Whitefield, Bangalore East Taluk, Bangalore
3	Co-ordinates of the Project Site	12°59'13.09"N 77°44'50.10"E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	NA
b.	Type of water body at the	NA

		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.	
5		Type of Development	Commercial Building
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Commercial Building
	b.	Residential Township/ Area Development Projects	NA
6		Plot Area (Sqm)	1,00,846.90 m^2
7		Built Up area (Sqm)	6,08,493.89 m^2
8		Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	**Building - 1** Wing - 1 & 2 : 3B+G+15 UF **Building - 2 :** 2B+G+3 UF **Building - 3** Wing - 3 & 4: 3B+G+16 UF **Building - 4** Wing - 5: 3B+G+16 UF Wing -6 : MLCP (3B+G+9 UF) Wing - 7 : 3B+G+16 UF
9		Number of units in case of Construction Projects	NA
10		Number of Plots in case of Residential Township/ Area Development Projects	NA
11		Project Cost (Rs. In Crores)	600
12		Recreational Area in case of Residential Projects / Townships	NA
13		Details of Land Use (Sqm)	
	a.	Ground Coverage Area	28,467.55 Sqm (28.23%)
	b.	Kharab Land	NA
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	20,205.60 Sqm (20.03%)
	d.	Internal Roads	6 mts Width
	e.	Paved area	47,130.71 Sqm (46.73%) Paved area and utilities
	f.	Others Specify	Surface parking area is about 5,043.04 (5.0%) Sqm
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA

	h.	Total		
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	50,000	
	b.	Total quantity of Excavated earth (in cubic meter)	4,00,000	
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	For back filling = 1,50,000 For Landscape= 1,00,000 For Internal Road making =1,00, 000 Remaining 50,000 Cum will be stored and will be used for our future construction projects	
	d.	Excess excavated earth (in cubic meter)	50,000	
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	In the time of EIA report we give all the details.	
15	WATER			
	I.	Construction Phase		
	a.	Source of water	Our Existing STP or from BWSSB	
	b.	Quantity of water for Construction in KLD	100 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	5 KLD	
	d.	Waste water generation in KLD	4 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Mobile sewage Treatment Plant	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	1200
			Recycled	1000
			Total	2200
	b.	Source of water	KIADB	
	c.	Waste water generation in KLD	1900	
	d.	STP capacity	700KLD & 1200KLD	
	e.	Technology employed for Treatment	SBR	
	f.	Scheme of disposal of excess treated water if any	Zero Discharge	

16	Infrastructure for Rain water harvesting		
	a.	Capacity of sump tank to store Roof run off	550 KLD
	b.	No's of Ground water recharge pits	30 No's
17	Storm water management plan		Enclosed in EMP
18	WASTE MANAGEMENT		
	I.	Construction Phase	
	a.	Quantity of Solid waste generation and mode of Disposal as per norms	Shall be disposed through BBMP Authorised
	II.	Operational Phase	
	a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	7,000 kg/day converted in to organic manure and used for garden
	b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	4,500 Kg/day given to PCB authorized recycler
	c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	10,000-15,000 Lts/one B check given to PCB authorized recycler
	d.	Quantity of E waste generation waste generation and mode of Disposal as per norms	5000 Kg/year given toPCB authorized recycler
19	POWER		
	a.	Total Power Requirement - Operational Phase	5140 KW
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	2000 KVA X 27 nos.
	c.	Details of Fuel used for DG Set	Low Sulphuric diesel
	d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	In the time of EIA report we give all the details.
20	PARKING		
	a.	Parking Requirement as per norms	8065
	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic report is enclosed
	c.	Internal Road width (RoW)	6 mts

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

The Proponent and Environment Consultant attended the meeting to present the ToRs. The committee screened the proposal considering the information provided in the statutory application-Form-1, 1A, Conceptual plan and clarification/additional information provided during the meeting. The proponent has stated that he has obtained EC earlier for this project spread over an area of 1,00,846.90 sqmts with a BUA of 1,49,795.98 sqmts and the work has not yet been started. Now he has put up this application for expansion spread over an area of 1,00846.90 sqmts utilizing the area earmarked earlier for future expansion and the present overall BUA area comes to 6,08,493.89 sqmts.

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) Details of the Kharab land and its position on the village survey map may be detailed and submitted.
2) Ground water level in the study area may be studied including ground water level monitoring in OB wells from DMG.
3) Scheme for waste to energy plant to process the entire organic waste generated from the entire project
4) Management plan to utilise 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.
6) Scheme for utilising 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 studies to be conducted and quantify the energy savings.
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.

Accordingly ToRs were issued on 27-3-2019. The proponent has submitted the EIA report vide letter dated: 3-6-2019 and the same was placed before the committee for appraisal.

The proponent and Environment consultant attended the 227th meeting held on 11-7-2019 for EIA appraisal.

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

1) Surface hydrology has to be reworked keeping in view the micro water shed wherein this project is located and workout the carrying capacity of the nearby nalas.
2) Scheme for utilizing balance excavated earth within the project site may be reworked and submitted.
3) Landuse and land cover analysis of the project site based on latest satellite imagery using NRSC classification to be prepared and submitted.

The proponent has submitted the replies vide letter dated:29-7-2019. The committee perused the replies submitted by the proponent and accepted the same.

The committee after discussion and deliberation decided to recommend the proposal to SEIAA for issue of Environment clearance with the following conditions:

8. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
9. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
10. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
11. The proponent shall adopt air cooled HVAC systems instead of water cooled HVAC systems in order to reuse the water saved and reduce the fresh water demand.
12. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
13. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
14. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.43 Proposed Development of "Prestige Smart City" at Sy.Nos.6/5, 12, 13/1, 13/2, 13/3, 13/4, 18, 19, 20, 21, 22, 23, 24/1, 24/2, 25/1, 25/2, 26/1A, 26/1B, 26/1C,

26/2, 27, 28, 29/1, 29/2, 29/3, 30,31, 32/1, 32/2, 32/3, 32/4, 33, 34/1, 34/2, 35/1, 35/2, 35/3, 35/5, 37/1, 37/2 of Yamare village Sy.Nos.19/2, 19/3, 19/4, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4, 21/5, 22/1, 22/2A, 22/2B, 22/3, 23/2, 23/3, 23/4, 23/5, 24/1, 24/2, 24/3, 25, 26, 29/2, 29/3A, 30/1, 30/2, 31/1, 31/2, 32/1, 32/2, 32/3, 33, 35, 36, 37, 38/2, 38/3, 38/4, 54, 55, 56, 57, 58, 59, 62, 63/1, 63/2, 63/3, 63/4, 63/5, 63/6, 63/7, 63/8 of ValagereKallahalli Village, SarjapuraHobli, Anekal Taluk, Bengaluru by **M/s. Prestige Projects Pvt Ltd., (SEIAA 165 CON 2018)**

Sl. No.	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	**M/s. Prestige Projects Private Limited,** The Falcon House, No: 1, Main Guard Cross Road, Bengaluru-560 001.
2	Name & Location of the Project	**Prestige Smart City** **Proposed Residential Development** At Sy. Nos. 6/5, 12, 13/1, 13/2, 13/3, 13/4, 18, 19, 20, 21, 22, 23, 24/1, 24/2, 25/1, 25/2, 26/1A, 26/1B, 26/1C, 26/2, 27, 28, 29/1, 29/2, 29/3, 30, 31, 32/1, 32/2, 32/3, 32/4, 33, 34/1, 34/2, 35/1, 35/2, 35/3, 35/5, 37/1, 37/2 of Yamare Village, Sy. Nos. 19/2, 19/3, 19/4, 20/1, 20/2, 21/1, 21/2, 21/3, 21/4, 21/5, 22/1, 22/2A, 22/2B, 22/3, 23/2, 23/3, 23/4, 23/5, 24/1, 24/2, 24/3, 25, 26, 29/2, 29/3A, 30/1, 30/2, 31/1, 31/2, 32/1, 32/2, 32/3, 33, 35, 36, 37, 38/2, 38/3, 38/4, 54, 55, 56, 57, 58, 59, 62, 63/1, 63/2, 63/3, 63/4, 63/5, 63/6, 63/7, 63/8 of Valagere Kallahalli Village, Sarjapura Hobli, Anekal Taluk, Bengaluru.
3	Co-ordinates of the Project Site	Latitude: 12°52'39.08" N Longitude: 77°46'17.29"E
4	Environmental Sensitivity	
a.	Distance from periphery of nearest Lake and other water bodies (Lake, Rajakaluve, Nala etc.,)	As per the village map, there are three nalas crossing the project site for which required buffer has been left from the edge of the nala as per the NGT order No. OA 222/2014 dated 04.05.2016. Sarjapura Lake - Adjacent to the project site in the South direction for which a buffer of 75m has been provided as per the NGT order No. OA 222/2014 dated 04.05.2016.

			Yamare Lake - 65m from the project site in the West direction which is far away from the building.
	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 per the village map, there are three nalas crossing the project site for which required buffer has been left from the edge of the nala as per the NGT order No. OA 222/2014 dated 04.05.2016. Sarjapura Lake - Adjacent to the project site in the South direction for which a buffer of 75m has been provided as per the NGT order No. OA 222/2014 dated 04.05.2016. Yamare Lake - 65m from the project site in the West direction which is far away from the building.
5	Type of Development		
	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Apartment
	b.	Residential Township/ Area Development Projects	Area Development project
6	Plot Area (Sqm)		3,70,638.38 Sqmt (91 Acres 23.52 Guntas)
7	Built Up area (Sqm)		10,50,775.18 Sqmt
8	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]		Apartments - 2B/3B+G+23UF/26UF/27UF Villas - G+1UF Club Houses - G+2UF/3UF Amenity building - 2B+G+4UF
9	Number of units in case of Construction Projects		The project comprises of 5,665 Nos. of Apartments, 145 Nos. of Villas, 5 Club Houses and an Amenity Building.
10	Number of Plots in case of Residential Township/ Area Development Projects		NA
11	Project Cost (Rs. In Crores)		Rs. 1,164.49Crores
12	Recreational Area in case of Residential Projects / Townships		56,422.05 Sqmt
13	Details of Land Use (Sqm)		

	a.	Ground Coverage Area	59,921.61 Sqmt (18.33%)
	b.	Kharab Land	7,284.28 Sqmt
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	60,847.67 Sqmt (18.61%)
	d.	Internal Roads	1, 08,985.92 Sqmt (33.33%)
	e.	Paved area	--
	f.	Others Specify	Civic Amenity area – 18,196.51 Sqmt (5.56%) Road widening area – 478.02 Sqmt (0.15%) Ramps and Staircase area – 2,505.50 Sqmt (0.77%) Surface Parking area – 11,756.25 Sqmt (3.60%) Service area – 5,238.40 Sqmt (1.60%) Swimming Pool area – 1,562.50 Sqmt (0.48%) Cut-out area – 1,018.50 Sqmt (0.31%) Green on Podium – 56,422.05 Sqmt (17.26%)
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	36,421.17 Sqmt
	h.	Total	3,70,638.38 Sqmt
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	No
	b.	Total quantity of Excavated earth (in cubic meter)	6, 32,412 Cum
	c.	Quantity of Excavated earth propose to be used in the Project site (in cubic meter)	5,47,306 Cum
	d.	Excess excavated earth (in cubic meter)	85,106 Cum
	e.	Plan for scientific disposal of excess excavated earth along with Coordinate of the site proposed for such disposal	Will be managed scientifically

15	WATER			
	I.	Construction Phase		
	a.	Source of water	Labor camp mobile STP Treated Water for construction purpose and External authorized tanker for domestic purpose.	
	b.	Quantity of water for Construction in KLD	100.0 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	120.0 KLD	
	d.	Waste water generation in KLD	114 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	The total sewage generated from construction site &labor camp is 114 KLD which will be treated in a mobile STP of capacity 115 KLD; Treated sewage will be re-used for Dust Suppression, Gardening & Construction purpose.	
	II.	Operational Phase		
	a.	Total Requirement of Water in KLD	Fresh	3,082 KLD
			Recycled	1,640 KLD
			Total	4,722 KLD
	b.	Source of water	Existing Borewells/Village Panchayat	
	c.	Waste water generation in KLD	4,256 KLD	
	d.	STP capacity	140 KLD, 660 KLD, 630 KLD, 480 KLD, 430 KLD, 340 KLD, 460 KLD, 480 KLD, 510 KLD, 160 KLD	
	e.	Technology employed for Treatment	Sequential Bio-Reactor Technology	
	f.	Scheme of disposal of excess treated water if any	For Flushing – 1,640 KLD For Landscaping – 736KLD For HVAC – 140 KLD For Car Washing– 366 KLD Excess to avenue plantation and construction purpose – 948 KLD	
16	Infrastructure for Rain water harvesting			
	a.	Capacity of sump tank to store Roof run off	858 Cum (15 Cum X 3 Nos., 17 Cum X 1 No., 19 Cum X 1 No., 21 Cum X 3 Nos., 23 Cum X 1 No., 24 Cum X 2 Nos., 25 Cum X 4 Nos., 26 Cum X 3 Nos., 27 Cum X 1 No., 30 Cum X 1 No., 31 Cum X 1 No., 32 Cum X 1 No., 48 Cum X 1 No., 50 Cum X 1 No., 57 Cum X 1 No. and 190 Cum X 1 No)	

	b.	No's of Ground water recharge pits	190 Nos. of recharge pits and 14 Nos. of recharge wells
17	Storm water management plan		Yes
18	WASTE MANAGEMENT		
I.	Construction Phase		
a.	Quantity of Solid waste generation and mode of Disposal as per norms		240 kg/Day from Construction Site &240 kg/Day from Labor Camp. Solid waste generated from the labor camp and construction site will be collected manually and handed over to authorized recyclers.
II.	Operational Phase		
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms		10.67MT/Day. Biodegradable wastes will be segregated at the source and will be processed in proposed organic waste converter.
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms		6.95 MT/Day. Non-biodegradable Wastes will be given to the waste recyclers.
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms		Waste Oil Generation: 15.44l/hr. Hazardous wastes like waste oil from DG sets, used batteries etc. will be handed over to the authorized hazardous waste recyclers.
d.	Quantity of E waste generation waste generation and mode of Disposal as per norms		E-Wastes will be collected separately & it will be handed over to authorized E-waste recyclers for further processing.
19	POWER		
a.	Total Power Requirement - Operational Phase		30,614 kW
b.	Numbers of DG set and capacity in KVA for Standby Power Supply		1,500 kVA X 3 Nos., 750 kVA X 25 Nos., 500 kVA X 17 Nos.,
c.	Details of Fuel used for DG Set		6,652.26 l/hr
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007		➢ Solar lighting& water heaters ➢ HF ballast ➢ Cu wound transformer ➢ PHE pumps ➢ LED Energy Savings: 22%
20	PARKING		
a.	Parking Requirement as per norms	Required	Provided
		7,135 Nos.	7,328 Nos.

	b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic Report will be submitted along with EIA Report.
	c.	Internal Road width (RoW)	8.0m

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 meeting to provide required clarification/additional information.

The committee appraised the proposal considering the information provided in the statutory application-Form 1, conceptual plan and clarification/additional information provided during the meeting.

The Committee after discussion decided to appraise the proposal as B1 and had decided to recommend the proposal to SEIAA for issue of standard ToR for conducting EIA study in accordance with EIA Notification 2006 along with relevant guidelines. The committee also decided to prescribe the following additional ToRs:

1) There are certain portions of land in the midst of the proposed project site and they are said to be government lands. This may be detailed showing the nature and status of the land along with the RTCs
2) Management plan to utilise the entire earth generated within the site may be worked out and submitted.
3) Utilization of the entire terrace for solar power generation may be worked out and submitted.
4) Scheme for utilising maximum treated sewage water to reduce the demand on the fresh water may be worked out and submitted since this is a water stressed area.
5) Rain water harvesting/storage details may be worked out.
6) 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.
7) As the building height is above 85 meters, the height clearance from the airport authority may be obtained and submitted.
8) 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.
9) The applicability of the recent NGT order on buffer zone for water bodies and nalas may be studied and submitted.
10) The proponent should update all the relevant document pertaining to the proposed site.
11) The proponent has to workout suitable carbon foot print from the project construction phase as well as operations and suggest suitable offsets.

12) Details of renewable energy generating zones to be earmarked including terrace area may be worked out and submitted.
13) Details of kharab land and its locality may be marked on the concept plan and submitted.

Accordingly ToRs were issued on 21-1-2019. The proponent has submitted the EIA report vide letter dated:16-5-2019 and the same was placed before the committee for appraisal.

The proponent and environment consultant attended the 225th meeting held on 26-6-2019 for EIA appraisal.

The committee observed from the village survey map there are four natural nalas crisscrossing the project site for which the proponent has stated that he has maintained 9 meter buffer zone on either side of the nalas as per the local planning authority (Anekal Planning Authority). He has also stated that he has maintained 16 meter setback beyond buffer zone as mandated by the local planning authority. In addition to these natural nalas there is one lake on the southeast side of the project site for which the proponent has stated that he has maintained 30 meter buffer zone as mandated by the local planning authority. As per the records submitted, the proponent has stated that the project is at an aerial distance of 5 KMs from the interstate boundary.

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

1) Scheme to protect and develop 17 guntas of kalayani as eco-pond and scheme to protect and develop 1.17 acres of gunduthopu as an arboretum(botanical garden) by planting woody, medicinal and aesthetic tree species to make a recreation spot for the benefit of general public by providing a separate approach with a sufficient budget by interlinking both with display board at a prominent place in consultation with the competent authorities.
2) To study the surface water hydrology of the entire catchment of the sarjapur lake and carrying capacity of the natural nalas has to be worked out and submit.
3) All the runoff water after percolation is to be diverted to adjacent kalayani and accordingly a flow diagram may be worked out and submitted.
4) As per the proponent's statement the CER for Rs.6.00 crores may be earmarked for rejuvenation of sarjapur lake, in case if it is covered under the tank filling scheme of K.C valley, the alternate proposal may be worked out and submitted in consultation with competent authority.

The proponent has submitted the replies vide letter dated:19-7-2019. The committee perused the replies submitted by the proponent and accepted the same. The committee after discussion and deliberation decided to recommend the proposal to SEIAA for issue of Environment clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. The proponent shall adopt air cooled HVAC systems instead of water cooled HVAC systems in order to reuse the water saved and reduce the fresh water demand.
5. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
6. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.
7. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.44 Proposed Expansion of Mixed Development project "Manyata Tech Park & Township" Project at Sy.Nos.17P, 17P, 18/1, 18/2, 18/3, 18/4, 18/5, 18/6, 18/7, 18/8, 18/9, 19/1, 19/2, 19/3, 19/4, 19/5, 20/1, 20/2, 20/3, 20/4, 21, 22/1, 22/2, 23/1, 23/2, 24, 25/1P, 26P, 27/1, 27/2, 27/3, 27/4, 27/5, 27/6, 27/7, 27/8, 27/9, 28/1P, 28/2A, 28/2B, 28/3P, 28/5, 28/6, 29/2, 29/3P, 35/3B, 35/3C, 36/1P, 36/2P, 36/3, 36/4P, 36/5, 36/6P, 36/7 of Rachenahalli Village, K.R.Puram Hobli, Bengaluru East Taluk and Sy.Nos.7/1, 81/8P, 82/1, 82/1P, 83/1, 83/2, 83/3A, 83/3A, 83/3B, 83/4, 84/P, 85/1, 85/2, 85/3, 85/4, 85/5, 85/6, 85/7P, 85/9, 98, 99/1P, 99/2, 99/3, 100/1, 11/2, 103/1, 103/2, 103/5, 103/6, 104/1, 104/2, 104/3, 104/4, 105/1, 105/2, 105/3, 105/4, 106P, 106/P, 107, 108, 109, 110/1, 110/2, 110/3, 111/1, 111/2, 111/3, 111/4, 111/5, 111/6, 112/1, 112/2, 112/3, 113/1, 113/2, 113/3, 114/1, 114/2, 114/2P, 114/3, 114/4, 114/5, 115/1, 115/2, 115/3, 116/1, 116/2A, 116/2B, 116/3, 116/4, 116/5, 116/6, 117/1, 121/1, 121/2, 122, 123/1A, 123/1AP, 123/1B, 123/2, 124/1, 124/2A, 124/2B, 124/3A, 124/3B of Nagawara Village, Kasaba Hobli, Bengaluru South Taluk and Sy.Nos.57/1, 57/2, 58/1P, 59/1P, 58/1P, 59/1P of Thanisandra Village, K.R.Puram Hobli, Bengaluru East Taluk and Block-N1 Parcel - Sy.Nos.30/3, 31/5, 32/1, 32/2 & Block-M3 Parcel - Sy.Nos.35/2, 35/3A, 37/1, 39/1, 39/2B, 40/3, 40/6 & Block-N2 Parcel - Sy.Nos.8/4, 8/5, 31/1, 31/2, 31/3, 31/4, 31/5, 44/2, 44/3, 45/1, 45/2, 46/1, 46/2, 46/3, 47/2B

of Rachenahalli Village, K.R.Puram Hobli, Bengaluru East Taluk, Bangalore Urban District by **M/s. Manyata Promoters Pvt Ltd., (SEIAA 29 CON 2019)** .

Manyata Promoters Private Limited (MPPL) had obtained Environmental Clearance for implementing Commercial, Residential, IT Park, Group Housing and Hotel (300 Rooms) on a plot area of **359.11 Acres** with a total buildup area of **35,01,009.60 Sq.m.** as per details below vide SEIAA letter No. 30:CON:2009, dated 10th June 2010.

The breakup of the Land Use of the Project is given below:

Sector	Project Land Use	Area (Acres)	Built-up area (Sq.m)
Sector A	Commercial/IT/Hotel	175.88	23,01,009.60
Sector B	Residential Plots	83.77	12,00,000
Sector C	Group Housing - Future Expansion	25.18	Nil (Vacant for future expansion
Sector D	Residential Plots - Future Expansion	74.28	Nil (Vacant for future expansion)
	Total	**359.11**	35,01,009.60

AS EPR THE EC, 359.11 acres of land is approved for the Project. Out of this, KIADB allotted land to an extent of 126 acres 13.5 guntas for the project and about 19.60 acres is acquired privately, totaling to 145.937 acres for development of Commercial/IT/Hotel/Retail etc (Sector A). Land parcel to an extent of 83.77 acres is acquired by MPPL privately for plotted development as per the approval of BDA (Sector B). An extent of 129.40 acres of Private lands (Sector C, Sector D and part of Sector A) could not be acquired by MPPL till date.

The built-up area of the Mixed use development as approved in the Environmental Clearance and as constructed is given below:

S. NO	SECTOR	PLOT AREA	BUILT-UP AREA (APPROVED)	BUILTUP AREA (CONSTRUCTED	REMARK
1	SECTOR A	175.88	23,01,009.60	16,30,659.17	Plans & OC obtained form KIADB, CFE/CFO from KSPCB
2	SECTOR B	83.77	12,00,000	5,00,000	Plan approved by BDA
3	SECTOR C	25.18	NIL	NIL	No Planning/ development has been done post EC till date
4	SECTOR D	74.28	NIL	NIL	

SI NO.	BLOCK	Built up Area (Sq.M)	Details of Structure
1	Block-B	29,555.00	B+G+3
2	Block-C1	44,190.92	B+G+4
3	Block-C2	52,156.14	B+G+8
4	Block-C3 - MLCP	31,982.72	B+G+12
5	Block-C4	44,383.28	B+S+6
6	Block-D1& D2	53,717.00	B+G +2
7	Block-D3	39,643.00	B+G+10
8	Block-D4	49,528.00	B+G+10
9	Block D4B - MLCP	39,378.74	B+G+11
10	Block-E1	20,277.00	B+G+4
11	Block-E2	46,180.00	G+7
12	Block-E2 - MLCP	19,191.00	G+7
13	Block-F2	86,062.00	B+G+10
14	Block-F3	98,894.00	2B+G+10
15	Block-G1	56,030.00	2B+G+8
16	Block-G2	50,703.00	2B+G+8
17	Block-G3	71,994.00	2B+G+10
18	Block-G4	55,288.00	2B+G+10
19	Block-G6 - MLCP	32,668.00	2B+G+12
20	Block-H1	45,620.00	B+G+6
21	Block-H2	84,580.00	2B+G+10
22	Block-A1	54,256.00	B+G+5
23	Block-A2	119,815.00	3B+G+11
24	Block-K	23.500.00	B+G+3
25	Block-L1	59,705.00	2B+G+10
26	Block-L2	65,875.00	2B+G+10
27	Block-L3	69,550.00	2B+G+10
28	Block-L2&L3 - MLCP	8,067.00	G+3
29	Block-L5a	39,160.00	B+G+10
30	Block-L5b	39,430.00	B+G+10
31	Block-L7 - MLCP	41,420.00	G+8
32	Block N1	57,859.37	2B+G+12

	Total	1630659.17	

Total BUA Constructed in Sector A – **16,30,659.17 Sq.M**

Total BUA Constructed in Sector B - **5,00,000.00 Sq.M (Residential** – Plots and Group Housing)

PROPOSED MODIFICATION AND EXPANSION :

The following facilities were proposed in the proposed Modification and Expansion Project.

1) Two Office Block's (3B+G+10UF)
2) Banquet Hall (3B+G+4UF)
3) 5 Star Hotel (3B+G+12 UF) and
4) 3 Star Hotel (3B+G+12 UF)

There have been certain Design Changes in the layout such as 3 Star Hotel is changed to 4 Star Hotel, etc., these Design Changes have resulted in the increase in the Built-up area of the Project from **1,89,381 Sq.m** (approved in TOR) **to 1,97,647 Sq.m.**

Additionally, as per the Managements current and future plans, MPPL now proposes to take up construction of additional Blocks in the Project with a total builtup area of **7,01,592 Sq.m,** which were not taken up earlier though EC was granted for the same.

The proposed construction/revision in the facilities is limited to **Sector A** in a Plot area of **145.94 Acres.** The details of the proposed modification and Expansion Project for a **total Built up area of 8,99,239 Sq.m in Sector A** of the Project is as per the following details :

S.No.	Facility Description	Builtup area (Sq.m)
1	**Modification in Block –P** 1) Two Office Buildings's (3B+G+10UF) 2) Convention Center, Retail & Commercial Space (3B+G+4UF) 3) 5 Star Hotel -266 Keys (3B+G+12UF) and 4) 4 Star Hotel -353 Keys (3B+G+12UF)	1,97,647
2	**Construction in Block – N 2** Two Office Buildings	3,22,422
3	**Construction in Block – M 3** Two Office Buildings	1,90,964

4	**Construction in Block – F 1** One Office Building	99,263
5	**Construction in Block – L 4** One Office Building	88,943
	Total Area (Sq.m)	**8,99,239**

Ground Coverage Statement of the Proposed construction in Sector A.

Description	Area Details		Percentage
	Acres	Sq.m	
Land area	34.26	138636.9	100%
Ground coverage	9.94	40223.59	29.01%
Landscape	8.70	35210.5	25.40%
Roads & Pavements	9.29	37611.47	27.13%
Hardscape	6.32	25591.33	18.46%

The summary of the revision in the built-up area in Sector A of the Project is as below:

Description	Built up area as approved in EC. (Sq.m)	Built up area as constructed (Sq.m) (As per Certified Compliance)	Proposed Amendment to TOR (Sq.m)	Proposed total built up area in view of revision in facilities (Sq.m)
Commercial & IT park	23,01,009.60	16,30,659.17	8,99,239.00	25,29,898.17

The development of the Residential Plots in Sector B is completed and built-up area of about 5,00,000 Sq.m is completed till date.

The proposals for development of Group Housing in Sector C and Residential Plots in Sector D is not envisaged now in view of the land acquisition issues and accordingly dropped.

The Existing Project of "Manyata Tech Park & Township" was inspected by the Deputy Director, MoEF&CC, Bangalore on 24.09.2018 and the Certified Compliance is issued for the Project vide letter dated 24.10.2018 and 13.12.2018.

The total built-up area is increasing from 23,01,009.60 Sq.m to 25,29,898.17 Sq.m in Sector A (Commercial & IT Park) within the complex.

MPPL have uploaded their Application in the PARIVESH Portal for issue of Amendment to TOR for the Modification and Expansion Project vide letter dated 29.11.2018 (Proposal No. IA/KA/NCP/63684/2017 dated 03.12.2019). MoEF&CC has informed vide EDS dated 23.01.2019 to submit the application to SEIAA/SEAC Karnataka since it is a category B Project and withdraw the Application from the MoEFCC Portal.

MPPL has uploaded Amendment to TOR Application in the Karnataka State portal of PARIVESH on 11.02.2019

Salient Features of the Project

The Salient Features of the proposed expansion Project limited to **Sector A** is as below:

A. WATER REQUIREMENT

Total water requirement = 4000 KLD

STP Design (Total capacity) = 3500 KLD (Will be provided in Modules for each Block)

B. POWER REQUIREMENT

From Grid = 72 MVA.

DG sets = About 45 DG Sets of about 72,000 KVA (DG sets capacitites ranging from 750 KVA to 2000 KVA).

C. PARKING DETAILS

No of car parkings required : 9946

Car parkings provided : 9955

D. ESTIMATED COST OF PROJECT : 2,114 Crores

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 paln and clarification/additional information provided during the meeting. The Sy. No. mentioned in the Agenda list was found mismatching with the Sy.Nos submitted in the file and hence the same was incorporated in the ToR Appraisal as detailed above. An EC was issued earlier during the year 2010 for a BUA of 35,01,009.60 sqmts spread over a an area of 359.11 Acres. Out of 359.11 Acres 126 Acres 13.5 guntas were allotted by KIADB and concept plan was also approved by KIADB and the balance land was acquired by proponent privately. Out of the land acquired privately 83.77 Acres of land(Sector B) has been utilized to form residential layout and the same have been allotted to different individuals and the layout plan was approved by BDA and balance area of 148Acres 35.5 guntas were under the parallel process of acquisition. Now the proponent has stated that he could able to acquire only 19 Acres 24 guntas out of 148 Acres 35.5 guntasof acquisition envisaged earlier. The proponent has also stated that he has reserved these land area of 148 Acres 35.5 guntas for future development when earlier EC was issued. Out of 35,01,009.60sqmts of BUA earlier envisaged includes 12,00,000sqmts BUA in the BDA approved layout for which necessary conditions were inbuilt in the allotment letter itself. Now this proposal is for a total area of 229.87 Acres

leaving out the areas that could not be acquired and BUA which was envisaged then was 23,01,009.6 sqmts and it is getting increased to 25,29,898.17 sqmts. The proponent has also stated that he made out an application to MoEF& CC during the year 2017 and ToRs were issued during August 2017 and consequent to this baseline data and other studies have been conducted during November 2017 onwards and requested to permit to adopt the same for EIA report and he has also stated that he is regularly monitoring the environmental parameters for submission of monthly compliance to KSPCB and he has agreed to do comparative analysis of the data collected during November 2017 and the present data.

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 utilise 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
6) Scheme for utilising 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 applicibality 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) 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.
15))As the site is situated nearer to AAI and Jakkur flying school, the NOC from the concerned authority may be obtained.

Accordingly ToRs were issued on 27-5-2019. The proponent has submitted the Final EIA report on 25-6-2019 and the same was placed before the committee for appraisal.

The proponent and Environment consultant attended the 226th meeting held on 11-7-2019 to provide required clarification and additional information. The committee noted from the village survey map there is a nala in the land of 19 Acres 24 guntas directly purchased by the proponent for which the proponent has stated that he has left 25 meters buffer zone on either side of the nala.

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

1) Additional ToR points No.3, 4,7,9,11,12 to be reworked out and submitted.
2) Land use and land cover analysis of the project area using high resolution satellite image to be prepared and submitted.
3) The proponent to submit the details for additional RWH storage tanks capacity as agreed by him.

The proponent has submitted the replies vide letter dated:29-7-2019. The committee perused the replies submitted by the proponent and accepted the same.

The committee after discussion and deliberation decided to recommend the proposal to SEIAA for issue of Environment clearance with the following conditions:

1. The proponent to conduct energy audit by an accredited agency before operation of the project in accordance with the Bureau of Energy Efficiency.
2. 15% of the parking space shall be reserved for electric vehicles with recharging facility.
3. The proponent shall identify suitable place(KIOSK) for collection and storage of E-Wastes generated within the premises and shall be disposed of regularly only with the KSPCB authorised E-waste recyclers.
4. The proponent shall adopt air cooled HVAC systems instead of water cooled HVAC systems in order to reuse the water saved and reduce the fresh water demand.
5. Triple line plumbing system to be implemented instead of dual line plumbing adopting sullage and sewage treatment separately.
6. Surface water runoff from paved areas to be stored and reused with suitable treatment systems.

7. CO sensors tobe installed with suitable exhaust system for double and triple basements.

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

228.45 Proposed Modification & Expansion in Manufacturing of Bulk Drugs & Intermediates Project at Sy.Nos.8 & 16, Plot No.183, KIADB Kolhar Industrial Area, Nizampur Hobli, Bidar Taluk, Bidar District by M/s. Stereo Drugs Pvt. Ltd. (SEIAA 14 IND (VIOL) 2018)

Sl. No	PARTICULARS		INFORMATION
1	Name & Address of the Project Proponent		Sri. K Suryanarayana Managing Director At Plot No. 79, 5-5-152/1, Prasantnagar, Kuketpally, Hyderbad-72
2	Name & Location of the Project		M/s. Stereo Drugs Private Limited, At Survey No. 8 & 16, Plot No. 183, KIADB Kolhar Industrial Area, Nizampur Hobli, Bidar Taluk & District, Karnataka.
3	Co-ordinates of the Project Site		Latitude - 17°54'27.21"N Longitude - 77°27'21.46"E
4	Environmental Sensitivity		
	a.	Distance From nearest Lake/ River/ Nala	Papnash river - 4.5 Km (NE) Janwada kere - 9.3 Km (N) Karanja Riservoir - 15 Km (W)
	b.	Distance from Protected area notified under wildlife protection act	Honnikere Reserved forest - 2.9 Km (N) Chitta Reserved forest - 3.3 Km (SE) Kamthana Reserved forest - 4.9 Km (N) Kaplapur protected forest - 5.8 Km (NW)
	c.	Distance from the interstate boundary	Karnataka - Telangana- 14.4 Km (E) Karnataka - Maharashtra- 38 Km (N)
	d.	whether located in critically / severally polluted area as per the CPCB norms	No
5	Type of Development as per schedule of EIA Notification, 2006 with relevant serial number		Activity 5 (f) of Category-B
6	New/ Expansion/ Modification/ Product mix change		Modification and Expansion
7	Plot Area (Sqm)		4,000 Sqmt
8	Built Up area (Sqm)		1,677.34 Sqmt
9	Component of developments		"Manufacturing of Bulk drug and Intermediates unit"

10	Project cost (Rs. In crores)		Rs. 7 Crores
11	Details of Land Use (Sqm)		
	a.	Ground Coverage Area	1,677.34 Sqmt
	b.	Kharab Land	--
	c.	Internal Roads	1,208.00 Sqmt
	d.	Paved area	--
	e.	Parking	--
	f.	Green belt	1,114.66 Sqmt
	g.	Others Specify	--
	h.	Total	4,000 Sqmt

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

LIST OF PROPOSED PRODUCTS

Sl. No	Name of the product	TPM
1	2-Acetyl Thiophene	1.0
2	(S)-Methyl-2-(3-((2-isopropylthiazol-4-yl)methyl)-3-methylureido)-3-methylbutanoate	2.0
3	(S)-3-(3-Fluoro-4-morpholinophenyl)-5-(hydroxymethyl) oxazolidin-2-one	1.0
4	Darunavir	1.0
5	Desvenlafaxine Succinate Monohydrate	1.0
6	Dapoxetine Hydrochloride	0.5
7	Ketorolac Tromethamine	1.0
8	Sitagliptin Phosphate Monohydrate	0.5
9	Pregabalin	1.0
	Total	9.0

Any two products at a time will be produced from the above listed products.

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

Detailed in feasibility report

Raw materials

1. 2-ACETYL THIOPHENE:

Input	kg
Thiophene	184
Acetic Anhydride	132
Phosphoric acid	11
Sodium Carbonate	20
Water	450

2. (S)-METHYL-2-(3-((2-ISOPROPYLTHIAZOL-4-YL)METHYL)-3- METHYLUREIDO)-3-METHYLBUTANOATE

Sl.No	Name of the Raw material	Quantity in Kg/day
1	1,3-Dichloropropan-2-one	95
2	Activated carbon	6
3	Citric acid monohydrate	36
4	Ethyl acetate	400
5	Hydrochloric acid (35%)	100
6	Hyflow	7
7	Isobutyramide	65
8	L-valline methylester Hydrochloride	117
9	Methylene Dichloride	370

10	Monomethylamine (40%)	100
11	n-Heptane	1500
12	Phenyl chloroformate	127
13	Phosphorus pentasulfide	40
14	P-Toulenesulfonic acid	3
15	Sodium carbonate	200
16	Sodium chloride	46
17	Sodium hydroxide	50
18	Sodium Sulfate	15
19	Toulene	1400

(S)-3-(3-Fluoro-4-morpholinophenyl)-5-(hydroxymethyl) oxazolidin-2-one

Sl. No	Name of the Raw material	Quantity in kg/batch
1	3,4-Difluoronitrobenzene	26
2	Ammonium chloride	20
3	Ethyl Acetate	100
4	Hydrogen	2
5	Methyl Chloroformate	15
6	Methylene Dichloride	100
7	Morpholine	17
8	n-Butyllithium	8
9	n- Hexane	50
10	Palladium carbon	1
11	R-Glycidyl butyrate	17
12	Sodium Bicarbonate	15
13	Sodium carbonate	20
14	Sodium chloride	10
15	Sodium Sulfate	3
16	Tetrahydrofuran	50

Darunavir

Sl. No	Name of the Raw material	Quantity in kg/batch
1	(3aS,4S,6aR)-4-Mehoxytetra hydrofuro[2,3-c]furan-2-(3H)-one	30
2	1-Methyl-1H-imidazole	28
3	4-Nitrobenzene-1-sulfonyl chloride	22
4	Acetic acid	44
5	Activated carbon	4.5
6	Amberlite 1R 120H resin	7
7	DBU	3
8	Ethyl Acetate	725
9	Hydrogen Chloride	21
10	Hydrogen gas	2
11	Hyflow	25
12	Isobutylamine	20
13	Isoprpoyl Alcohol	600
14	Methanol	1900
15	Methylene Dichloride	1225
16	Palladium carbon	1
17	P-Nitrophenyl chloroformate	60
18	Sodium Borohydride	15
19	Sodium Hydroxide	23
20	Tert-Butyl((S)-1-oxiran-2-yl)-2-phenylethyl carbamate	25

21	Toulene	450
22	Triethylamine	19

Desvenlafaxine Succinate Monohydrate

Sl. No	Name of the Raw material	Quantity in kg/batch
1	Activated carbon	15
2	Ethyl Acetate	1500
3	Hyflow	15
4	Methanol	3920
5	N-methyl Pyrrolidine	350
6	Sodium Hydroxide	35
7	Succinic acid	48
8	Toulene	700
9	Venlafaxine Hydrochloride	100

Ketorolac Tromethamine

S. No	Name of the Raw material	Quantity in kg/batch
1	Benzoyl chloride	100
2	Perchloric acid	65
3	Pyyrole	50
4	Cyclohexane	850
5	Sulphuric acid	31
6	Tromethamine	60
7	Sodium hydroxide	197
8	Acetone	950
9	Methyl-y-methoxy butanoate	75
10	Aluminium chloride	100
11	Methanol	350

Dapoxetine Hydrochloride

Sl. No	Name of the Raw material	Quantity in kg/batch
1	3-Chloro-1-phenylpropan-1-one	90
2	4-Dimethylamino pyridine	0.01
3	Acetic acid	10
4	Acetone	200
5	Carbon	4
6	Dimethyl Sulfoxide	400
7	Dimethylamine (40%)	50
8	Ethyl Acetate	120
9	Hyflow	10
10	Isopropyl Alcohol	150
11	Isopropyl Alcohol Hydrochloride (15%)	63
12	L(+)-Tartaric acid	56
13	Methanesulfonyl chloride	50
14	Methanol	250
15	Methyl Isobutyl Ketone	500
16	Methylene Dichloride	1700
17	Naphthalene-1-ol	69
18	Oxalic acid	38
19	Petroleum Ether	150
20	Potassium hydroxide	28
21	Sodium Bicarbonate	1
22	Sodium Borohydride	6

23	Sodium Hydroxide (5%)	200
24	Sodium Hydroxide (50%)	90
25	Toulene	350
26	Triethylamine	

Sitagliptin Phosphate Monohydrate

S.No	Name of the Raw material	Quantity in kg/batch
1	2,4,5-Trifluorobenzyl-α-amino acid	120
2	2-chloro pyrazine	50
3	Carbo benzyloxychloride	500
4	Diazomethane in diethyl ether (40%)	40
5	Dimethylformamide	785
6	Hydrazine hydrate	23
7	Hydrogen	2
8	Hydrogen chloride	15
9	Isobutyl chloroformate	440
10	Methanol	2980
11	Methanolic hydrochloride (20%)	60
12	Palladium carbon	10
13	Polyphosphoric acid	40
14	Silver benzoate	738
15	Triethyl orthoester	88

Pregabalin

Sl.No	Name of the Raw material	Quantity in kg/batch
1	D,L-Pregabalin	272
2	Mandelic Acid	260
3	Methanol	1150
4	Methylene Dichloride	720
5	Sodium bicarbanate	80
6	S-Pregabalin Mandalate	240

14	Mode of transportation of Raw material and storage facility	The chemicals required for the process are mostly bought from the local (indigenous) markets. Mode of transportation of all raw 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 o brick manufacturing industry
17	Complete process flow diagram and technology employed	Will be detailed in EIA
18	Details of Plant and Machinery with capacity/ Technology used	1.5 TPH - Boiler Capacity 125 KVA & 225 KVA - Dg capacity MEE of 10 KLD capacity with stripper and ATFD
19	Details of VOC emission and control measures wherever applicable	--

20	WATER			
	I.	Construction Phase		
	a.	Source of water	Open well and bore well	
	b.	Quantity of water for Construction in KLD	1 KLD	
	c.	Quantity of water for Domestic Purpose in KLD	1 KLD	
	d.	Waste water generation in KLD	0.8 KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	Will be treated in soak pit	
	II	Operational Phase		
	a.	Source of water	Open well and bore well	
	b.	Total Requirement of Water in KLD	Fresh	14.3 KLD
			Recycled	6 KLD
			Total	20.3 KLD
	c.	Requirement of water for industrial purpose / production in KLD	Fresh	10.3 KLD
			Recycled	1.5 KLD
			Total	11.8 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	5.7 KLD
			Domestic sewage	2 KLD
			Total	7.7 KLD
	f.	ETP/ STP capacity	Biological treatment plant - 10KLD	
	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 discharge	
21	Infrastructure for Rain water harvesting		11 KLD will be provided to recharge roof rain water	
22	Storm water management plan		For the storm water drain, will going to provide closed concrete structures which do not pass chemical to the drain by washing and treatment of chemicals.	
23	Air Pollution			
	a.	Sources of Air pollution	Dg set, Boiler	
	b.	Composition of Emissions	--	
	c.	Air pollution control measures proposed and technology employed	Process emission will be connected to 2 stage scrubber for treatment	
24	Noise Pollution			
	a.	Sources of Noise pollution	Dg set, motors, compressor	
	b.	Expected levels of Noise pollution	75 dB	

		in 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 solid waste	138 kg/day
			Inorganic Solid Waste	226 kg/day
	b.	Quantity of Hazardous Waste generation with source and mode of Disposal as per norms	Description / Quantity: Waste oil – 100 l/month; Used fiber drums – 10 No's /Day; Polythene bags – 20 No's/day; Spent carbon – 5 kg/day	
	c.	Quantity of E waste generation with source and mode of Disposal as per norms	--	
26	Risk Assessment and disaster management		Will be provided during EIA submission	
27	POWER			
	a.	Total Power Requirement in the Operational Phase with source	Electricity– GESCOM – 180 KVA	
	b.	Numbers of DG set and capacity in KVA for Standby Power Supply	125 kVA X 1 & 225 kVA X 1	
	c.	Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,	Boiler – Coal Dg set – HSD	
	d.	Energy conse-rvation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Energy conservation devices such as CFL and LED lights are proposed in the project.	
28	PARKING			
	a.	Parking Requirement as per norms	50 numbers	
	b.	Internal Road width (RoW)	Approach road width – 18m Internal road width - 13m (min)	
29		Any other information specific to the project (Specify)	--	

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

The proponent has stated that ToRs have already been issued by the EAC, MoEF & CC, GoI, Dated:21-2-2018 and he has produced the copy of the proceedings. Hence the committee advised the proponent to come back after conducting EIA studies along with public hearing as per the ToRs issued.

In the meantime the proponent has submitted a letter dated:29-7-2019 requesting to issue Terms of Referene(ToRs). The same was placed before the committee for perusal.

The proposal was taken up in 228th meeting held 6-8-2019. In continuation of the proceedings during 198th SEAC meeting held on 18/19-5-2018, the proponent has made out an application vide letter dated: 29-7-2019, highlighting the difficulties to proceed further in preparation of EIA report including public hearing. After thorough discussion and deliberation committee felt that the ToRs issued by MoEF for violation category projects holds good even now also since the ToRs issued earlier by MoEF, GoI are not withdrawn.

In view of the above it is decided to send the file to SEIAA with a request to direct the proponent to conduct the EIA studies as per the ToRs issued by MoEF, GoI.

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

228.46 Proposed Pink Granite Quarry (Ornamental Stone) Project at Sy.No.156(Part) of Uduvagere Village, Magadi Taluk, Ramanagara District over an area of 2-20 **Acres By Sri M.D. Mahesh (SEIAA 440 MIN 2019)**

Sl. No	PARTICULARS	INFORMATION		
1	Name & Address of the Project Proponent	**Sri. M.D. Mahesh** No.10, Thirumale Village Magadi Town, Magadi Ramanagara Dist		
2	Name & Location of the Project	Pink Granite Quarry in 2-20 Acres of Govt. Revenue Land bearing Sy. No. 156(P) in Uduvegere Village, Magadi Taluk & Ramanagara District, Karnataka		
3	Co-ordinates of the Project Site	C.P	Latitude	Longitude
		A	N 12°55'732"	E 77°12'488"
		B	N 12°55'727"	E 77°12'410"
		C	N 12°55'757"	E 77°12'405"
		D	N 12°55'764"	E 77°12'479"
		E	N 12°55'726"	E 77°12'401"
		F	N 12°55725"	E 77°12'379"
		G	N 12°55'752"	E 77°12'377"
		H	N 12°55'753"	E 77°12'400"
4	Type of Mineral	Pink Granite(Ornamental Stone)		
5	New / Expansion / Modification / Renewal	Renewal(Q. L. No. 1966 & 2197)		
6	Type of Land [Forest, Government Revenue, Gomala, Private/Patta, Other]	Govt. Land		

7	Whether the project site fall within ESZ/ESA		No
8	Area in Ha		0.89
9	Actual Depth of sand in the lease area in case of River sand		NA
10	Depth of Sand proposed to be removed in case of River sand		NA
11	Rate of replenishment in case of river sand mining as specified in the sustainable sand mining guideline 2016		NA
12	Measurements of the existing quarry pits in case of ongoing/expansion/modification of mining proposals other than river sand		NA
13	Annual Production Proposed (Metric Tons/ CUM) / Annum		3,512Cum/Annum
14	Quantity of Topsoil/Over burden in cubic meter		None
15	Mineral Waste Handled (Metric Tons/ CUM)/ Annum		109 Tons/Annum
16	Project Cost (Rs. In Crore)		0.40
17	Environmental Sensitivity		
	a.	Nearest Forest	None within 5 Km Radial Distance
	b.	Nearest Human Habitation	Uduvegere -1.5Km
	c.	Educational Institutes, Hospital	Magadi – 3.0 Km
	d.	Water Bodies	Balekatte Forest-600m Metsnhalli Kere-1.49 Km NE Magadi Kere-3.88 Km NE Uduvegere Kere-1.62 Km E Madabal Kere-3.35 Km SE Mangallu Kere-1.55 Km S-SE Santnuru Kere-3.12 Km W-NW Kempasaara Kere-3.54 Km W-NW Nasepalya Kere-700m N-NW Vaddarapalya Kere-3.66 Km N-NW Belagumba Kere-8.04 Km NE Chik Tore 8.1 Km E-NE Mattikere Kere-6.16 K m S-SW Chakrabavi Kere-7.55 Km SW Yalgalwadi Kere-5.97 Km W Lingadevarapalya Kere-W-NW Kalya Kere-5.42 Km N-NW

			Siddadevarabetta S.F-3.34 Km S-SE Balekote minor Forest-625m W Panakanakallu S.F-7.21 Km E-NE Savandurga S.F-6.60 Km E-SE Gattipua Minor Forest-7.97 Km S-SW Chakrabhavi Minor Forest-6.25 Km SW Hutridurga S.F-7.84 Km W-NW Kalarikaval Minor Forest-7.39 Km W-NW Chilur S.F-9.66 Km N-NW	
	e.	Other Specify	-	
18	Applicability of General Condition of the EIA Notification, 2006		None	
19	Details of Land Use in Acres			
	a.	Quarry workings	1-24	
	b.	Waste Dumps	0-09	
	c.	Roads/Infrastructure/Mineral storage	0-02	
	d.	Proposed buffer	0-25	
	e	Others Specify	-	
20	Method of Mining/ Quarrying		Opencast Semi-mechanized	
21	Rate of Replenishment in case River sand project		NA	
22	Water Requirement			
	a.	Source of water	Nearby Bore well Water	
	b.	Total Requirement of Water in KLD	Dust Suppression	3.5 KLD
			Domestic	0.6 KLD
			Other	0.4 KLD
			Total	4.5 KLD
23	Storm water management plan		Will be carried out.	
24	Any other information specific to the project (Specify)		None	

The proposal was placed before the committee for appraisal.

The proponent was invited for the 227th meeting held on 25-7-2019 to provide required clarification. The committee noted that this is a fresh lease consisting of two earlier leases and areas being 2 Acres and 20 guntas respectively. An EC was issued for the mining lease which is of 2 Acres extent during 1-1-2016 and no EC was obtained for the mining lease which is of 20 guntas extent. As per the audit report prepared by the DMG the one mining with an extent of 2 Acres was operated from 2003-04 to 2014-15 and no mining activity has been carried out since then. In case of other lease area which is of 20 guntas extent mining activity has been carried out from 2007-08 to 2014-15 and

no mining activity has been carried out since then till date. In both the cases earlier lease was for mining building stone. Now this proposal is for mining ornamental stone. But in the mining plan prepared, the mining activity involves mining in 20 guntas separately since both the leases are not merged for this the proponent has stated that he will get the revised mining plan restricting the mining activity within the 2 Acres land and reserving 20 guntas land for waste handling.

Hence the committee after discussion and deliberation decided to defer the subject.

In continuation of the above the proponent has made out an application requesting to permit to carry out the mining activities in the quarry lease of area of 20 guntas since the commercial blocks mined from this area is of superior quality and also the process not involving any blasting and requested to permit him to handle the waste by converting the same to building stone which has been reflected in the approved mining plan.

As per the mining plan there is a level difference 10 meters to 40 meters and taking this into consideration and also the fact that he has mined already 5,700 cum or 14,100 tons the proposed quantity of 29,269 cum can be mined safely and scientifically. The proponent has stated that the percentage of recovery is 60% i.e., 17,561 cum and 40% waste i.e., 11,472 cum.

As far as approach road is concerned the proponent has stated that there is a existing cart track road to a length of 500 meters connecting lease area to all weather black topped road.

As far as CER is concerned the proponent has earmarked Rs.4.00 lakhs to take up rejuvenation of Uduvegere kere which is at a distance of 1.5 KM from the project site.

The committee after discussion decided to recommend the proposal to SEIAA to issue Environment Clearance with the following conditions:

1. Safe drinking water has to be provided at the quarry site.
2. Dust suppression measures have to be strictly followed.

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

The meeting concluded with thanks to the Chair.

Chairman, SEAC
Karnataka.