

**Proceedings of the 308<sup>th</sup> SEAC Meeting held on 15<sup>th</sup> November- 2023**

**Members present in the meeting held on 15<sup>th</sup> November- 2023**

1.	Shri. Venugopal V	Chairman
2.	Dr. Shekar H.S	Member
3.	Dr. J.B Raj	Member
4.	Shri. Nanda Kishore	Member
5.	Dr. S.K. Gali	Member
6.	Shri. Vyshak V Anand	Member
7.	Shri. Dinesh MC	Member
8.	Shri. Devegowda Raju	Member
9.	Shri. Sharanabasava Chandrashekhar Pilli	Member
10.	Shri. J G Kaveriappa	Member
11.	Shri. Mahendra Kumar M C	Member
12.	Shri. B V ByraReddy	Member
13.	Dr. Sarvamangala R. Patil	Member
14.	Shri. B. Ramasubba Reddy	Member
15.	Shri. R Gokul, IFS	Member Secretary

**Officials Present**

1	Suhas H S	Sc O
2	Adil B	Sc O

The Chairman welcomed the members and initiated the discussion. The proceedings of the 306<sup>th</sup> & 307<sup>th</sup> SEAC meeting held on 6<sup>th</sup> & 7<sup>th</sup> November 2023 and 10<sup>th</sup> November 2023 respectively was read and confirmed.

**Fresh Projects**

**EIA Projects**

**308.1 Commercial Development Project at B K Palya Village, Jala Hobli, Yelahanka Bengaluru North District, KIADB Hi Tech, Defence and Aerospace Park, Bengaluru by M/s. Brigade Estates and Projects Pvt. Ltd. – Online Proposal No.SIA/KA/INFRA2/449468/2023 (SEIAA 121 CON 2020)**

**About the project:**

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Project Proponent	M/s. Brigade Estates and Projects Pvt. Ltd. 29 <sup>th</sup> & 30 <sup>th</sup> Floor, World Trade Center, Brigade Gateway Campus, 26/1, Dr Rajkumar Road, Malleswaram - Rajajinagar, Bengaluru - 560055
2	Name & Location of the Project	Brigade Commercial Development at Plot No. 8-P, 9 and 10 (Sy. Nos. Parts of 52, 53, 54, 75, 85, 86, 92 and 7 (Old Sy. No. 7(P) and Block Nos. 26, 27, 35, 36, 37, 38, 39, 42 and 43), B K Palya Village, Jala Hobli, Yelahanka Bengaluru North District, KIADB Hi Tech, Defence and Aerospace Park, Bengaluru
3	Type of Development	

	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Commercial Office, Data Centre, Industrial Sheds, and Food Court Category 8(b) as per EIA Notification 2006
	b.	Residential Township/ Area Development Projects	--
	c.	Zoning Classification	The land is allotted by Karnataka Industrial Area Development Board (KIADB) for Construction of Commercial development for IT/ITES purposes. The Land use as per the Bengaluru International Airport Area Planning Authority (BIAAPA) is Industrial.
4		New/ Expansion/ Modification/ Renewal	New
5		Water Bodies/ Nalas in the vicinity of project site	There are no Nala or Water Bodies within or in the immediate vicinity of the project site.
6		Plot Area (Sqm)	1,00,244 Sq.m
7		Built Up area (Sqm)	5,80,107.02 Sq.m
8		FAR • Permissible • Proposed	3.25 3.249
9		Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Block 1 – Data Center- Ground Floor + 7 Upper Floors Block 2 – IT/ITES Building-1- 3 Basements + Ground Floor + 13 Upper Floors + Terrace Floor Block 3 - IT/ITES Building-2- 3 Basements + Ground Floor + 13 Upper Floors + Terrace Floor Block 4 – Manufacturing Industry – Single Level with Building Height of 15m Block 5 - Utility Block comprising of chiller plants— Ground Floor + 3 Upper Floors HSD Yard – Ground Floor + 3 Upper Floors Sub Station
10		Number of units/plots in case of Construction/Residential Township /Area Development Projects	NA
11		Height Clearance	50m (Max)
12		Project Cost (Rs. In Crores)	730 Cores
13		Disposal of Demolition waster and or Excavated earth	Construction debris of about 24,204Tones will be handled as per Construction and Demolition Waste Management Rules 2016 Total 4,08,600cum cum of excavated earth is estimated for the construction of the project. Topsoil Conservation and reuse:70,820cum Excavated soil used for levelling:2,73,165cum Excavated earth used for construction of Internal Roads:34,350cum Backfilling along retaining walls:21,600cum
14		Details of Land Use (Sqm)	
	a.	Ground Coverage Area	60,146.00Sq.m

b.	Kharab Land	No Kharab land in the project	
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	10030.00 Sq.m	
d.	Internal Roads	30,068.00Sq.m	
e.	Paved area		
f.	Others Specify		
g.	Parks and Open space in case of Residential Township/ Area Development Projects	--	
h.	Total	1,00,244.00 Sq.m	
15	WATER		
I.	Construction Phase		
a.	Source of water	Treated water from Labour Camp STP	
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	20KLD STP	
II.	Operational Phase		
a.	Total Requirement of Water in KLD	Fresh	1,095
		Recycled	660
		Total	1,755
b.	Source of water	BWSSB through KIADB, Rooftop Rainwater and Treated Water	
c.	Waste water generation in KLD	1,404KLD	
d.	STP capacity & Area required	Decentralized STPs of total capacity of 1,500 KLD Area Required is 1,850 Sq.m	
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, etc.	
16	Infrastructure for Rain water harvesting		
a.	Capacity of sump tank to store Roof run off	1800cum	
b.	No's of Ground water recharge pits	50Nos.	
17	Storm water management plan	Garland drains with 50 Nos. recharge pits	
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 local disposal agencies	
II.	Operational Phase		
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	1,980kg/day will be composed within the project campus using Organic Waste Converter	
b.	Quantity of Non- Biodegradable waste generation and mode of	2,970kg/day of Non-Biodegradable waste will be segregated and sold to Local Authorized	

	Disposal as per norms	Recyclers
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	5000kg/annum will be handed over to KSPCB Authorized Agencies
d.	Quantity of E waste generation and mode of Disposal as per norms	100 kg/annum of E Waste will be collected separately and handed over to KSPCB Authorized Agencies.
19	<b>POWER</b>	
a.	Total Power Requirement - Operational Phase	56MVA
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	2250KVA x 21Nos.+ 2000KVA x 3Nos.
c.	Details of Fuel used for DG Set	High Speed Diesel (HSD)
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	<p>a.Timer based External Lights</p> <p>b.BEE Star rated electromechanical systems shall be used in the development.</p> <p>c.Solar Water Heating systems for top 2 floor dwelling units</p> <p>d.Use of HF ballast for lighting</p> <p>e.Use of LED light fittings</p> <p>f.Building Orientation; Cross Ventilation.</p> <p>g. Solar Street Light</p> <p>h. Solar PV of 3000KWH capacity</p> <p>i. Energy efficient Air Conditioning Systems</p> <p>Total Savings – 29.77%</p>
20	<b>PARKING</b>	
a.	Parking Requirement as per norms	2,870 Car Parking + 17 Truck Parking
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	<p>Approach Road: B</p> <p>Towards Amazon: C</p> <p>Towards SH-104 (Airport): B</p> <p>Towards SH-104 (Bagaluru): B</p> <p>Towards Devanahalli: B</p> <p>Towards Budigere: B</p>
c.	Internal Road width (RoW)	9m
21	CER Activities	<p>1. To undertake K G Arishinakunte lake Rejuvenation and beautification</p> <p>2.Free Medical check-up camps will be held</p> <p>3.Infrastructure creation for sanitation systems to control waterborne diseases viz., Malaria, Dengue, Diarrhoea, Dysentery, Cholera, etc.</p> <p>4.Plantation in community areas</p> <p>5. Jobs for local people during construction and operation phase.</p>
22	<p>EMP</p> <ul style="list-style-type: none"> <li>• Construction phase</li> <li>• Operation Phase</li> </ul>	<p>During Construction Phase:</p> <p>Capital Investment – 1.23Crores</p> <p>Recurring Cost – 11.25 Lakhs/ Annum</p> <p>During Operation Phase:</p> <p>Capital Investment – 14.04Crores</p> <p>Recurring Cost – 64.50 Lakhs/ Annum</p>

The proposal is for construction of Commercial building project in an area allotted by KIADB. SEIAA had issued ToR on 16.10.2023.

The Committee during appraisal sought details regarding harvesting measures in the proposed area. The Proponent submitted the revised rainwater harvesting provisions and informed the Committee that they had proposed storage tank of 3,650 cum capacity for runoff from rooftop and a pond of capacity 1,400 cum for the runoff from hardscape and landscape areas along with 50 recharge pits within the project area. The Committee also noted that the Proponent has made provision to harvesting 3MW solar power in the proposed project.

Further the Committee suggested to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed.

The Proponent agreed to grow 1500 trees in the project site area. The Proponent has collected baseline data of air, water, soil and noise and informed that all were within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines for the proposed construction and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters were found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide recharge tank of capacity 3,650 cum and pond of 1,400 cum and 50 recharge pits.
2. To grow trees in the early stage before taking up of construction.
3. Proponent agreed to source external water from KGWA approved water tankers.
4. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site
5. Proponent agreed to construct lead of drains till the natural drains/water body for handling excess water.

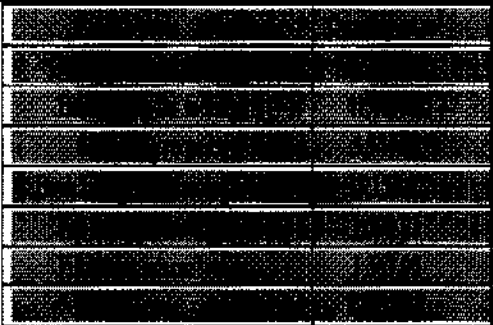
**Action: Member Secretary, SEAC to forward the proposal to SEIAA for further necessary action.**

**308.2 Proposed High Tech (IT/ITES) Building Project at Plot No.12 of Doddanekundi Industrial Area, 2<sup>nd</sup> Phase, In Sy.No.71, KR Puram Hobli, Bangalore East Taluk, Bangalore Urban District by M/s. Maruthi Electrodes Pvt. Ltd. - Online Proposal No.SIA/KA/INFRA2/450697/2023 (SEIAA 147 CON (VIOL) 2023)**

**About the project:**

Sl No	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Project Proponent	Mr. G.J.Raja Reddy Managing Director M/s. Maruthi Electrodes Pvt. Ltd. #138, 5 <sup>th</sup> Floor, Maruthi Tower, Kodihalli, HAL Road, Bangalore-560 008.
2	Name & Location of the Project	Proposed High Tech (IT/ITES) Building at Plot No. 12 at Doddanekundi Industrial Area, 2 <sup>nd</sup> Phase, In Sy No. 71, KR Puram Hobli, Bangalore East Taluk, Bangalore Urban District
3	Type of Development	

	a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	High Tech (IT/ITES) Building Category 8(b) as per EIA Notification 2006 (Violation)
	b.	Residential Township/ Area Development Projects	NA
	c.	Zoning Classification	Industrial Land
4		New/ Expansion/ Modification/ Renewal	New (violation category under OM No. 22-21/2020.IA.III dated 07.07.2021)
5		Water Bodies/ Nalas in the vicinity of project site	Seetharamapalya Lake - 0.60 Kms (SE) Yekdgata Lake Park - 0.77 Kms (W).
6		Plot Area (Sqm)	8,080sq.m
7		Built Up area (Sqm)	39,976.30sq.m.
8		FAR Permissible Proposed	3.0 2.95
9		Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Construction of High Tech (IT/ITES) Building 1 Block having 2 Basements + Ground Floor + 9 Upper Floors + Terrace Floor. The total site area is 8,080 sq.m. The Net Site Area is 7,930 Sq.m. The Gross BUA is 39,976.30 sq.m.
10		Number of units/plots in case of Construction/Residential Township /Area Development Projects	-
11		Height Clearance	
12		Project Cost (Rs. In Crores)	475 Crores

13		Disposal of Demolition waster and or Excavated earth]	
14		Details of Land Use (Sqm)	
	a.	Ground Coverage Area	2,585.30sq.m
	b.	Kharab Land	-
	c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	2,616.90sq.m
	d.	Internal Roads	
	e.	Paved area	2,727.80Sq.m
	f.	Others Specify	-
	g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
	h.	Total	7,930.00sq.m.

15	<b>WATER</b>		
	<b>I. Construction Phase</b>		
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	
	<b>II. Operational Phase</b>		
a.	Total Requirement of Water in KLD	Fresh	54.92
		Recycled	75.08
		Total	130.0
b.	Source of water	BWSSB	
c.	Waste water generation in KLD	117.0 KLD	
d.	STP capacity & Area required	120.0 KLD & 210 Sq.m	
e.	OWC Area & Capacity	120 Sq.m. & 4 Tons	
f.	Technology employed for Treatment	SBR Technology	
g.	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 <u>ultrafiltration</u> and reverse osmosis	
16	<b>Infrastructure for Rain water harvesting</b>		
a.	Capacity of sump tank to store Roof run off	140 cu.m.	
b.	No's of Ground water recharge pits	8 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	<b>WASTE MANAGEMENT</b>		
	<b>I. Construction Phase</b>		
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	
	<b>II. Operational Phase</b>		
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	163.80kg/day. Biodegradable waste will be converted in organic convertor.	
b.	Quantity of Non- Biodegradable waste generation and mode of	109.20 kg/day. Non- Biodegradable waste will be handed over to authorized recyclers	

	Disposal as per norms	
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Nil
d.	Quantity of E waste generation and mode of Disposal as per norms	E-waste generation will be very less

19	<b>POWER</b>													
a.	Total Power Requirement - Operational Phase	1500 kVA												
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	2 X 1250 kVA + 1 X 600 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	<ul style="list-style-type: none"> <li>• Energy saved by using Solar water Heater : 1,00,000 kWh/ Year.....(a)</li> <li>• Solar Power Generation :</li> <li>• In non-monsoon season 350 kWh x 30 x 8 Months = 84,000kWh</li> <li>• In monsoon season 150kWh x 30 x 4 Months = 18,000 kWh</li> <li>• Total SPV Power Generation in a year = 1.02 L kWh / Annum.....(b)</li> <li>• Total Solar Energy utilization (Energy saving using solar PV) in a year = 1.02 L kWh Total energy savings = 23.28%</li> </ul>												
20	<b>PARKING</b>													
a.	Parking Requirement as per norms	Car Parking required - 475 No's												
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Graphite India Main Road - LOS - B												
c.	Internal Road width (R.o.W)	8.50 m												
21	CER Activities	<table border="1"> <thead> <tr> <th>Year</th> <th>Corporate Environmental Responsibility (CER)</th> </tr> </thead> <tbody> <tr> <td>1<sup>st</sup></td> <td>Rain Water Harvesting in GHPS at Halasahalli-Thippasandra Village</td> </tr> <tr> <td>2<sup>nd</sup></td> <td>Providing solar power panels to GHPS at Halasahalli-Thippasandra Village</td> </tr> <tr> <td>3<sup>rd</sup></td> <td>Conducting E-waste drive campaigns in the Halasahalli-Thippasandra Village</td> </tr> <tr> <td>4<sup>th</sup></td> <td>Scientific support and awareness to local farmers to increase yield of crop and fodder</td> </tr> <tr> <td>5<sup>th</sup></td> <td>Health camp in GHPS at Halasahalli-Thippasandra Village</td> </tr> </tbody> </table>	Year	Corporate Environmental Responsibility (CER)	1 <sup>st</sup>	Rain Water Harvesting in GHPS at Halasahalli-Thippasandra Village	2 <sup>nd</sup>	Providing solar power panels to GHPS at Halasahalli-Thippasandra Village	3 <sup>rd</sup>	Conducting E-waste drive campaigns in the Halasahalli-Thippasandra Village	4 <sup>th</sup>	Scientific support and awareness to local farmers to increase yield of crop and fodder	5 <sup>th</sup>	Health camp in GHPS at Halasahalli-Thippasandra Village
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22	EMP Construction phase Operation Phase	<table border="1"> <thead> <tr> <th colspan="2">EMP (Construction &amp; Operation)</th> </tr> <tr> <th>Operation Phase</th> <th>Construction Phase</th> </tr> </thead> <tbody> <tr> <td>Recurring Cost Per Annum = 21.2425 lakhs Capital Cost = 161.565 lakhs</td> <td>Recurring Cost Per Annum = 16.74 lakhs Capital Cost = 41.72 lakhs</td> </tr> </tbody> </table>	EMP (Construction & Operation)		Operation Phase	Construction Phase	Recurring Cost Per Annum = 21.2425 lakhs Capital Cost = 161.565 lakhs	Recurring Cost Per Annum = 16.74 lakhs Capital Cost = 41.72 lakhs						
EMP (Construction & Operation)														
Operation Phase	Construction Phase													
Recurring Cost Per Annum = 21.2425 lakhs Capital Cost = 161.565 lakhs	Recurring Cost Per Annum = 16.74 lakhs Capital Cost = 41.72 lakhs													

The Proposal is for grant of EC for an already constructed building. The BUA and configuration permitted in EC issued on 13.06.2018 by SEIAA was for construction of 33,929.80 Sqm in a plot area of 8,080 Sqm with B+G+9 floors against which 39,976.3 Sqm with 2B+G+9UF has been constructed. Hence the Proponent had submitted application under violation, for which SEIAA had issued ToR on 17.10.2023. The Proponent submitted CCR from MoEF&CC dated 26.09.2023, informing about the construction of additional BUA against the EC.



The Proponent informed the Committee that the calculation for the violation is as per the provisions in MoEF&CC OM dated 07.07.2021. The construction of an additional basement and BUA was taken in to account for calculating the ecological damage caused for violating existing Environmental Conditions. The damage assessed using environmental impact data and a remediation plan with appropriate cost and a bank guarantee was appraised by the Committee.

The Proponent informed that the assessed penalty as per the standard operating procedures amounted to Rs.17,82,927 based on 1% levy on project cost. The environmental damage to air, water, and land was monetized, and mitigation measures including afforestation and water management were budgeted at Rs. 27,270. The augmentation plan, with a focus on solar street lighting and rainwater harvesting was estimated at Rs. 3,00,000. Community development efforts were also planned, emphasizing improvement in local infrastructure and skill development, with a dedicated budget of Rs. 7,00,000. The total Bank guarantee towards the remediation plan, natural and community resources augmentation has been assessed as 10 lakhs.

The Proponent submitted the following details,

**Penalty Amount:**

Penalty amount is estimated as given below as per SOP vide OM. No. F. No. 22-21/2020 – IA.III dated 7<sup>th</sup> July 2021

Where operation/production with expanded capacity has not commenced: 1% of the project cost, attributable to the expansion, incurred up to the date of filing of application along with EIA/EMP report.

Capital Cost of the Project attributable to the expansion (certified by Chartered Architect): Rs. 35,65,85,500

1% of the total project cost = Rs. 35,65,855

As the project Proponent has declared the violation the penalty is halved :  $0.5 * 35,65,855$  : Rs. 17,82,927.5/-

**Damage Assessment**

For assessment of damage to environment the following environmental aspects has been identified

**Air Environment**

The impact of pollutant emission into the air atmosphere is assessed for the construction activity carried out for 3 years. For the assessment, the total construction activity is carried out and corresponding emissions and damage cost is calculated.

The emissions are quantified based on excavation, grading, filling, compaction, cut and fill, site clearing, loading, unloading and transportation etc. The quantity of emissions during violation period are furnished below.



**Emissions from various activities**

Activities involved in earth work	Emissions in Kg				
	PM10	PM2.5	SOX	NOX	CO
Excavation	239.59	23.959	-	-	-
Movement of vehicles on unpaved roads	661.43	66.143	-	-	-
Movement of vehicles on paved roads	4455.9	1093.7	-	-	-
Loading & unloading	55.106	8.3446	-	-	-
Machinery & vehicle exhaust emissions	-	-	2.69	281.91	239.14
<b>Total</b>	<b>5412.026</b>	<b>1192.147</b>	<b>2.69</b>	<b>281.91</b>	<b>239.14</b>

By implementing an Environmental Management Plan, a 50% reduction in dust emissions has been achieved and hence 50% emissions have been considered for damage assessment.

The monetary value (damage cost) of air pollutants emissions due to construction works carried out without EMP.

Basis of Damage cost of Air emissions: Environmental Prices Handbook EU28 version 2018

1. PM10 – Rs. 1663.26 / kg of emissions
2. PM2.5 – Rs. 2424.858 / kg of emissions
3. SO2 – Rs. 726.582 / kg of emissions
4. NOX – Rs. 872.773 / kg of emissions
5. CO – Rs. 3.3527 / kg of emissions

**Damage cost due to earth works carried out without EMP.**

Pollutant	Damage Cost as per EU28 Version 28 (Rs.)
PM10	45,00,803.2
PM2.5	14,45,393.1
SOX	977.25279

NOX	1,23,021.83
CO	400.89214
Damage cost due to Air pollution	Rs. 60,70,596.3

### **Air pollution Control measures**

The building has been constructed implementing the EC conditions with below EMP measures.

#### **Construction Equipment's**

Transport vehicles and construction equipment's / machinery have been properly maintained to reduce air emission.

Equipment's have been periodically checked for pollutant emissions against stipulated norms.

Sheets have been covered on stockpiles to prevent dust dispersion.

Trucks have been covered with sheets to prevent dust dispersion from the trucks.

#### **Use of vehicle**

- Prior to leaving a construction site, every vehicle is washed to remove any dusty materials from its body and wheels.
- Whenever a vehicle leaving a construction site is carrying dusty materials, the load has been covered completely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.
- On-Road- Inspection has been done for black smoke generating machinery.
- Only Vehicles having pollution control certificate have been allowed.
- The speed of a vehicle had been restricted to 20 kmph to reduce emission.
- Locally found gravel has been used in access roads to add a protective layer over the exposed soil and help control dust generation.

#### **Stockpiles**

No debris or construction waste is found in project site. All the generated Construction waste has been used for back filling of the project during construction stage.

#### **DG Set**

D.G. Set has been placed in an acoustic enclosure. Location of DG sets and other emission generating equipment is decided keeping in view the predominant wind direction so that the emissions do not affect nearby commercial areas. Stack height of DG set is kept in accordance with CPCB norms. Project Proponent has been using 2 DG sets of 125 KVA as an alternative to power supply in the project and verification of DG stack emissions report dated 04.08.2023 indicated that all the monitored values are within stipulated norms.




**Budget spent on EMP to control Air Pollution.**

Sl No	Potential Impact	Environmental Protection measure for construction phase	unit price	Calculation	Capital Cost	Recurring cost per year
1	Dust & Gaseous	Barricading the periphery by corrugated sheet of 9m height	1m length x 9m height for 2,500 (perimeter=437)	perimeter 437 x Rs. 2500	109250	1,09,250
2		Use of wet jute bags	30 Rs per bag (considering 100 bags per day)	rs. 30 x 100 bags x 250 days	-	750000
3		Control of Dust by sprinkling of water on roads	200m inside the site for construction x 10kl/d/km	Rs. 100 per kl x 250 days x 0.20 kl	-	50,000
4		Use of face mask to avoid inhalation of dust particles	100 labours	100 labours x Rs 500 per month	-	50,000
5		Periodic maintenance of construction equipment	1,00,000 per year	10 equipment's x Rs. 10,000 per year	-	1,00,000
1	Occupatio Health and Safety	Fire Extinguisher	Rs. 5,000 per extinguisher	Rs. 5,000 per extinguisher x 10 piece	-	50,000
2		Emergency Room	2,000 sqft room	2000x500 per sqft	100000	-
3		Medical Check up	5000 Rs per labour	5000*100		500,000
<b>Total</b>					<b>209250</b>	<b>1400000</b>

As Proponent had already spent an amount of Rs. 20.92 Lakhs towards capital cost and 14 lakhs per annum as recurring cost for 3 years totaling 62.92 Lakhs for control of air pollution during construction period no additional damage cost would be involved as it has been already incurred for implementation of EMP. The quality of air has been analysed by NABL laboratory which indicates the compliance with the specified standards.




## Noise Environment

The main source of noise pollution in construction is use of heavy equipment's such as excavators, bulldozers and loaders which produces loud engine and mechanical noises. The construction Equipment Noise Emission Levels is given below,

*Noise Levels at various Equipment's*

Equipment's	Typical Noise Level -dB (A) 50 ft from Source
Air Compressor	81
Concrete Mixer	85
Concrete Pump	82
Concrete Vibrator	76
Crane, Derrick	88
Crane, Mobile	83
Generator	81
Grader	85
Jack Hammer	88
Loader	85
Pump	76
Rail Saw	90
Rock Drill	98
Roller	74
Saw	76
Scraper	89
Shovel	82
Tie Cutter	84
Tie Handler	80
Tie Inserter	85
Truck	88

Standard sound wave propagation equation has been used to calculate the noise levels at receptor as per the equation given below.

$$\text{Noise (receptors)} = \text{Noise (source)} - 20 \text{ Log} [\text{distance (receptor)}/\text{distance (Source)}]$$

The noise decibel at the site during construction activities is reaching upto 80 dB (A) and noise decibel at nearest residence located approximately 200 m Southwest direction is calculated to be 68 dB (A) in worst case scenario which is not the acceptable range in commercial zone as per noise rules, 2000.

The Project Proponent informed that has provided barricading and green belt cover, in such a manner to attenuate the noise level generated at the site. The quality of Ambient Noise has been analysed by NABL laboratory which indicates the compliance with standards specified.

The operation of construction machinery and equipment had generated high noise levels due to which the health of construction labour may have affected. The following are the personal protective equipments provided to the employees during the construction period.



Helmets had been used by all people working.

Safety shoes were provided to all people working.

Leather hand gloves had been provided for gas cutting, welding, handling of pipes, handling of sheets, unloading of reinforcement bars from trolley, bending & cutting of bars, Glass handling, tin sheet handling or handling of sharp objects.

Rubber hand gloves had been provided for concreting, handling chemicals, removing water or earth, etc.

Gumboots had been provided for concreting, working in mud and water, chemicals etc.

Safety goggles / face shield had been provided for gas cutting, chipping, chiseling, wood cutting, hacking, grinding, demolition, breaking stone, handling chemical, welding, drilling, painting etc.

Safety belt / Lifelines / fall arrestor for had been provided work involving height to prevent fall of person from a height.

Apron / safety clothing had been provided for welding, gas cutting, handling chemicals.

Earmuffs / Ear plug had been provided for Places, equipment, or operation where noise level is high.

**Table 13.6**  
**Budget spent on EMP to control Noise Pollution**

Potential Impact	Environmental Protection measure for construction phase	Unit price	Calculation	Capital Cost	Recurring cost per year
Noise	Use of well-maintained equipment fitted with silencers	10,000 for silencer x 10 vehicle	Rs 10,000 for silencer x 10 vehicle	1,00,00	5,00
	Providing earmuffs/ earplug for working staff.	100 labors	100 labours x Rs 500 per month	-	50,000
<b>Total</b>				<b>1,00,000</b>	<b>55,000</b>

The Proponent informed that since they had already spent an amount of Rs. 1.0 Lakhs towards capital cost and 0.55 lakhs per annum as recurring cost for 3 years is a total of 2.65 Lakhs for control of air pollution during construction period no additional damage cost would be involved as it has already incurred for implementation of EMP. The quality of Ambient Noise has been analysed by NABL laboratory which indicates the compliance with the standards specified.

## Water Environment

### Water Consumption

The total water consumption for construction of buildings was 50 KLD and water has sourced from tankers. The damage cost consumption of water to construct an additional basement, has been considered. The water balance and damage cost for water consumption is given below,

#### Water Balance

Sl. No.	Purpose	Requirement (m <sup>3</sup> /day)
1	Construction (Peak)	10.2
2	Nonresident laborers (70 @ 30 lpcd)	2.1
3	Residing laborers (40 @ 70 lpcd)	2.8
4	Dust suppression	5.1
Total		20.2

#### Damage Cost for Water Consumption for Constructing Additional Basement.

Water consumption (m <sup>3</sup> /day)	20.2
Period of construction of additional basement in days	90
Water Charges @ Rs. 15 per m <sup>3</sup>	Rs. 27,270

#### Surface Water sources

There is no impact on surface water bodies by constructing additional basement.

#### Ground water

Ground water has not been used for construction. Source of water for construction was private water tanker supply. The water table in the area is below 18 -75 mbgl and excavation is proposed for site levelling only. Hence, there was no de-watering.

#### Land Environment

There was no change in land use for constructing an additional basement. The plot area remains the same.

#### Soil Environment

Topsoil available at a depth of 1 feet in the project site which has been scooped and segregated separately and it has been stockpiled separately in the site which would be used for plantation purpose. No excavation works or tree cutting, or vegetation removal works was undertaken during rainy season and hence there is no impact due to soil erosion.

### **Solid and other waste**

Solid waste generated during earthwork activities typically includes materials that were excavated or removed from the ground during construction, grading, or excavation projects. The excavated material has been used for backfilling, and no other waste had been generated as no labour camps were constructed on the site."

### **Biological Environment**

Construction activities generate dust and this dust when get settled on leaves may impact the photosynthesis capacity of the plants. Also, vehicular emission like NO<sub>2</sub>, NO<sub>x</sub> etc. can inhibit the growth of plants and pre-mature leaves senescence. Due to noise generation fauna may get disturbed resulting in their relocation and thus reducing the biodiversity of an area.

There is no Reserved Forest, wildlife sanctuaries and national parks found in the study area. No wildlife movement was observed in the area and there is no suitable habitat.

In the core zone, the surface area is less densified showing xeric nature in plants and no trees found in the project site. No important species (RET) were found in the project site.

Thus, no degradation is accounted under the impact on ecology, biodiversity due to constructing of additional basement.

### **Socio economic Environment**

There is no direct adverse impact observed due to violation activity on the socio-economic status of nearby villagers.

### **Damage Cost**

The estimated cost of damages resulting from constructing additional basement without prior Environmental Clearance is provided below.

**Table 13.9**  
**Damage Cost due to different activities**

<b>S. No.</b>	<b>Description</b>	<b>Damage Cost (Rs.)</b>
1.	Water Environment	27,270
<b>Total</b>		<b>27,270</b>

### **Remediation plan**

In the process of constructing an additional basement, no adverse impacts were observed on the surrounding environment or ongoing activities. This successful outcome can be attributed to the meticulous implementation of an Environmental Management Plan, which ensured that all construction activities adhered to environmental regulations and best practices. As a result, there is no requirement for a remediation plan, as the construction was conducted in an environmentally responsible manner, causing no harm or disruption to the site or its surroundings.





### Natural Resource Augmentation Plan

M/s. Maruthi Electrodes Pvt. Ltd. has agreed to provide a solar streetlight on road outside the project site and in Govt. schools, parks, and library. Conservation of water would be done by converting the existing abandoned wells into recharge structures in nearby villages

#### *Budget for Natural Resource Augmentation Plan*

Activity	No.	Unit	Amount in Rs
Provision of solar streetlights on roads outside the project sites and in Government schools, parks, and library	20	10,000 per light	2,00,000
Conservation of water by converting the existing abandoned wells into recharge structures in nearby villages.	10	10,000 per Pit	1,00,000
Total cost			3,00,000
Time period			2 year

### COMMUNITY RESOURCE DEVELOPMENT

#### *Budget for Community Resource Development*

Activity	Amount in Rs
Improvement of drinking water infrastructure in government schools and library	5,00,000
Skill Development by organising training courses through ITIs.	2,00,000
Total cost	7,00,000
Time Period	2 Year

#### Bank Guarantee Amount Estimation

The estimated amount of bank guarantee towards the Remediation Plan, Natural and community resource augmentation is 10 Lakhs. The details of Bank guarantee amount estimation is given below.



**Bank Guarantee Amount Estimation**

<b>Activity</b>	<b>Budget in Lakhs</b>	<b>Time Period for Implementation</b>
Natural Resource Augmentation Plan	3.0	2 Years
Community Resource Development	7.0	2 Years
<b>Total</b>	<b>10.0</b>	<b>2 Years</b>

The Committee carefully analysed and accepted the calculation and appraised the Project.

The Committee during appraisal sought details regarding harvesting measures in the proposed area. The Proponent informed the Committee they had constructed storage tank of capacity 131cum capacity for runoff from rooftop, hardscape and landscape areas along with 08number of recharge pits within the project area.

Further the Committee informed to use provided additional rainwater harvesting structures, to which the Proponent agreed.

The Proponent agreed to grow 100 trees in the project site area. The Proponent has collected baseline data of air, water, soil and noise and informed that all were within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines for the proposed construction and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters were found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide additional rain water harvesting sturctures.
2. To grow trees in the early stage.
3. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site
4. Proponent agreed to construct lead of drains till the natural drains/water body for handling excess water.

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



**308.3 Residential Development Plan (Apartment/Row House) Building Project at Halasahalli-Thippasandra Village, Sarjapura Hobli, Anekal Taluk, Bangalore District by M/s. Dishahabitat Projects LLP – Online Proposal No.SIA/KA/INFRA2/449713/2023 (SEIAA 146 CON (VIOL) 2023)**

About the project:

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Project Proponent	Gumaranjan J, Authorised Signatory M/s. Dishahabitat Projects LLP No. 43/2, 2 <sup>nd</sup> floor, Above Axis Bank, Whitefield Main Road, Near Hope Farm Junction, Bangalore-560066
2	Name & Location of the Project	Residential Development Plan (Apartment/Row House) Building at Sy.Nos. 154, 155, 156, 157, 166/1 & 167/2 of Halasahalli-Thippasandra Village, Sarjapura Hobli, Anekal Taluk, Bangalore District.
3	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Development Plan (Apartment/Row House) Building Category 8(b) as per EIA Notification 2006 under violation
b.	Residential Township/ Area Development Projects	NA
c.	Zoning Classification	Agricultural land
4	New/ Expansion/ Modification/ Renewal	New (violation category under OM No. 22-21/2020.IA.III dated 07.07.2021)
5	Water Bodies/ Nalas in the vicinity of project site	Tank – 0.14 kms (N) Tank – 0.12 km (S)
6	Plot Area (Sgm)	80,936.00sq.m
7	Built Up area (Sgm)	2,75,483.47sq.m.
8	FAR • Permissible • Proposed	2.25 2.249
9	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Construction of Residential Development Plan (Apartment/Row House) Building having Apartment Towers A to G, Tower A, B, F & G having 2 Basements + Ground Floor + 26 Upper Floors + Terrace Floor, Tower C having 2 Basements + Ground Floor + 24 Upper Floors + Terrace Floor and Tower D & E having 2 Basements + Ground Floor + 30 Upper Floors + Terrace Floor and having 8 Row houses each row house Ground Floor + 2 Upper Floor + Terrace Floor with total 1382 units

10	Number of units/plots in case of Construction/Residential Township /Area Development Projects	1382 Units	
11	Height Clearance	Justification, already constructed project of Shreno limites is having top elevation of 1010m AMSL and proposed building is having height of 1,002.42m AMSL	
12	Project Cost (Rs. In Crores)	550 Crores	
13	Disposal of Demolition waster and or Excavated earth	Details	Quantity in m <sup>3</sup>
		Quantity of excavated soil	2,65,711.11
		Back filling for footings	1,32,855.56
		Site filling required	56,435.66
		Back filling for retaining wall	45,435.42
		Top soil for Landscaping	15,447.12
		Filling for internal roads	15,537.36
		Total	2,65,711.11
14	Details of Land Use (Sqm)		
a.	Ground Coverage Area	20,415.66sq.m	
b.	Kharab Land	-	
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	25,360.94sq.m	
d.	Internal Roads	31,074.72Sq.m	
e.	Paved area		
f.	Others Specify		
g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA	
h.	Total	76,851.32sq.m.	
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 653.0
		Recycled 310.95
		Total 963.95
b.	Source of water	Gram Panchayath
c.	Waste water generation in KLD	915.75 KLD
d.	STP capacity & Area required	920 KLD & 662 Sq.m
e.	OWC Area & Capacity	57 Sq.m. & 6 Tons
f.	Technology employed for Treatment	SBR Technology
g.	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 <u>ultrafiltration</u> and reverse osmosis
16 Infrastructure for Rain water harvesting		
a.	Capacity of sump tank to store Roof run off	1,102 cu.m.
	No's of Ground water recharge pits	76 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	1658.40 kg/day. Biodegradable waste will be converted in organic convertor.
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	1105.60 kg/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 and mode of Disposal as per norms	E-waste generation will be very less

19	<b>POWER</b>													
a.	Total Power Requirement - Operational Phase	6250 kVA												
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	3 Nos. x 1500 KVA + 1 Nos. x 1000 KVA + 1 Nos. 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	<ul style="list-style-type: none"> <li>• Energy saved by using Solar water Heater : 1,10,000 kWh/ Year.....(a)</li> <li>• Solar Power Generation :</li> <li>• In non-monsoon season 900kWH x 30 x 8 Months = 2,16,000kWH</li> <li>• In monsoon season 700kWH x 30 x 4 Months = 84,000 kWh</li> <li>• Total SPV Power Generation in a year = 3.00 L kWh / Annum.....(b)</li> <li>• Total Solar Energy utilization (Energy saving using solar heater and solar PV) in a year = (a)+(b)= 1.10+ 3.00 L KWH = 4.10 L / Annum .....(c)</li> <li>• Total energy savings = 22.46%</li> </ul>												
20	<b>PARKING</b>													
a.	Parking Requirement as per norms	2051 ECS												
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Kataciuppe to Gunjur Main Road - LOS - B												
c.	Internal Road width (RoW)	6.00 m												
21	CER Activities	<table border="1"> <thead> <tr> <th>Year</th> <th>Corporate Environmental Responsibility (CER)</th> </tr> </thead> <tbody> <tr> <td>1<sup>st</sup></td> <td>Rain Water Harvesting in GHPS at Halasahalli-Thippasandra Village</td> </tr> <tr> <td>2<sup>nd</sup></td> <td>Providing solar power panels to GHPS at Halasahalli-Thippasandra Village</td> </tr> <tr> <td>3<sup>rd</sup></td> <td>Conducting E-waste drive campaigns in the Halasahalli-Thippasandra Village</td> </tr> <tr> <td>4<sup>th</sup></td> <td>Scientific support and awareness to local farmers to increase yield of crop and fodder</td> </tr> <tr> <td>5<sup>th</sup></td> <td>Health camp in GHPS at Halasahalli-Thippasandra Village</td> </tr> </tbody> </table>	Year	Corporate Environmental Responsibility (CER)	1 <sup>st</sup>	Rain Water Harvesting in GHPS at Halasahalli-Thippasandra Village	2 <sup>nd</sup>	Providing solar power panels to GHPS at Halasahalli-Thippasandra Village	3 <sup>rd</sup>	Conducting E-waste drive campaigns in the Halasahalli-Thippasandra Village	4 <sup>th</sup>	Scientific support and awareness to local farmers to increase yield of crop and fodder	5 <sup>th</sup>	Health camp in GHPS at Halasahalli-Thippasandra Village
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22	<b>EMP</b> <ul style="list-style-type: none"> <li>• Construction phase</li> <li>• Operation Phase</li> </ul>	<b>EMP (Construction &amp; Operation)</b> <table border="1"> <thead> <tr> <th colspan="2">Operation Phase</th> <th colspan="2">Construction Phase</th> </tr> </thead> <tbody> <tr> <td>Recurring Cost Per Annum = 56.525 lakhs</td> <td>Capital Cost = 723.11lakhs</td> <td>Recurring Cost Per Annum = 18.97 lakhs</td> <td>Capital Cost = 70.97 lakhs</td> </tr> </tbody> </table>	Operation Phase		Construction Phase		Recurring Cost Per Annum = 56.525 lakhs	Capital Cost = 723.11lakhs	Recurring Cost Per Annum = 18.97 lakhs	Capital Cost = 70.97 lakhs				
Operation Phase		Construction Phase												
Recurring Cost Per Annum = 56.525 lakhs	Capital Cost = 723.11lakhs	Recurring Cost Per Annum = 18.97 lakhs	Capital Cost = 70.97 lakhs											

**Remarks:**

The Proposal is for grant of EC for the already commenced activity of earth work excavation without EC for BUA of 2,75,483.47Sqm in plot area of 80,936Sqm. Hence the Proponent had submitted application under violation, for which SEIAA had issued ToR on 17.10.2023. The Proponent informed that they have stopped the Construction activity at present.

The Proponent informed the Committee that the violation has been calculation as per the provisions in MoEF&CC OM dated 07.07.2021. The construction has been carried out and needs to be rectified for the ecological damage caused for violating Environmental Conditions. The damage assessed using environmental impact data and a remediation plan with appropriate cost and a bank guarantee was appraised by the Committee.

The Proponent informed the Committee that the assessed penalty for unauthorized excavation of 2,65,711 cum needed to be rectified for the ecological damage caused by operations without an Environmental Clearance (EC) as mandated by the EIA notification 2006. The Committee assessed the damage using environmental impact data and proposed a remediation plan with appropriate costs and a bank guarantee. The penalty has been proposed as per the standard operating procedures, amounted to Rs. 93,760 based on a 1% levy on project costs. The damage to air, water, and land environments was monetized, and mitigation measures, including afforestation and water management, were budgeted at Rs. 18,53,316. The augmentation plan, with a focus on solar street lighting and rainwater harvesting, was estimated at Rs. 1,50,000. Community development efforts has been planned, emphasizing improvement for local infrastructure and skill development, with a dedicated budget of Rs. 3,00,000. The total Bank guarantee towards the remediation plan, Natural and community resources augmentation to be 4.5 lakhs.

The Proponent submitted the following details,

#### **Penalty amount**

Penalty amount is estimated as given below as per SOP vide OM. No. F. No. 22-21/2020 – IA.III dated 7th July 2021

Where operation has not commenced: 1% of the total project cost incurred upto date of filling of application along with EIA/EMP report.

Capital Cost of the Project incurred for partial earthwork(certified by Chartered Architect):Rs.  
1,87,52,032

1% of the total project cost = Rs. 1,87,520

As the project Proponent has declared the violation the penalty is halved. Hence the penalty is halved :  $0.5 * 187520 = \text{Rs. } 93,760$

#### **Damage Assessment**

For assessment of damage to environment the following environmental aspects has been identified

#### **Air Environment**

The impact of pollutant emission into the air atmosphere has been assessed for the earth work carried out in 15 days. For the assessment, the total excavation has been carried out and corresponding emissions and damage cost is calculated.

The emissions are quantified based on excavation, grading, filling, compaction, cut and fill, site clearing, loading, unloading and transportation involved. The activity wise emissions during violation period are furnished below.



**Emissions from various activities**

Activities involved in earth work	Emissions in Kg				
	PM10	PM2.5	SOX	NOX	CO
Bulldozing	265.7111	26.57111	-	-	-
Scrapers Removing topsoil	770.5622	77.05622	-	-	-
Scrapers unloading topsoil	531.4222	53.14222	-	-	-
Loading of excavated material into trucks	31.032	4.68	-	-	-
Trucks dumping of fill material	31.032	4.68	-	-	-
Back hoe	0.01665	0.001665	0.03285	0.3636	0.24795
Crane	0.05625	0.005625	0.07515	0.86355	0.33795
Dozer	0.02745	0.002745	0.05445	0.6282	0.3006
Front end loader	0.0306	0.00306	0.06165	0.7074	0.3384
Roller	0.02565	0.002565	0.0513	0.51255	0.1791
Scraper	0.1188	0.01188	0.1584	1.50525	0.87165
<b>Total</b>	<b>1630.035</b>	<b>166.1571</b>	<b>0.4338</b>	<b>4.58055</b>	<b>2.27565</b>

By implementing an Environmental Management Plan, a 50% reduction in dust emissions has been achieved hence 50% emissions are considered for damage assessment.

The monetary value (damage cost) of air pollutants emissions due to earth works carried out without EMP is given below is based on the basis of Damage cost of Air emissions: Environmental Prices Handbook EU28 version 2018

1. PM10 – Rs. 1663.26 / kg of emissions
2. PM2.5 – Rs. 2424.858 / kg of emissions
3. SO2 – Rs. 726.582 / kg of emissions
4. NOX – Rs. 872.773 / kg of emissions
5. CO – Rs. 3.3527 / kg of emissions

**Damage cost due to earth works carried out without EMP**

Pollutant	Damage Cost as per EU28 Version 28 (Rs.)
PM10	1382840.6
PM2.5	205427.13
SOX	18911.476
NOX	239867.04
CO	457.7855
<b>Damage cost due to Air pollution</b>	<b>Rs. 18,47,504.1</b>



## Noise Environment

The main source of noise pollution in earth work is due to use of heavy equipment's such as excavators, bulldozers and loaders which produces loud engine and mechanical noises. The construction Equipment Noise Emission Levels is given below,

**Noise Levels at various Equipment's**

Equipment's	Typical Noise Level - dB (A) 50 ft from Source
Back hoe	85
Crane	88
Dozer	85
Front end loader	74
Roller	89
Scraper	82
Generator	84
Jack Hammer	80

Standard sound wave propagation equation has been used to calculate the noise levels at receptor as per the equation given below,

$$\text{Noise (receptors)} = \text{Noise (source)} - 20 \text{ Log} [\text{distance}(\text{receptor})/\text{distance}(\text{Source})]$$

The noise decibel at the site during construction activities reaching upto 80 dB (A) and noise decibel at nearest residence located approximately 200 m Southwest direction calculated to be 68 dB (A) in worst case scenario which is not the acceptable range in commercial zone as per noise rules, 2000. But after providing the barricading and the green belt cover, in such a manner to attenuate the noise level generated at the site.

The operation of construction machinery and equipment will generate high noise levels due to which it may affect the health of construction labour. The damage cost due to noise pollution on workers working in construction site is given below.

**Damage cost due to noise pollution**

No. of Employees	20
workers exposed to equivalent noise level dB(A)	85
Damage cost as per EU28 Version 28 in Rs.	5612.153

Basis of Damage cost of Noise nuisance: Environmental Prices Handbook EU28 version 2018  
>80 dB(A) = Rs. 6828.12 per dB(A) per person per year.

## Water Environment

### Water Consumption

No construction activity has started; only earthwork has been carried out, and no water has been consumed in the construction activity. There are only 20 employees working on the site. The water consumption for domestic purposes has been 13.5 KL, and the associated damage cost for water consumption is Rs. 200.

### **Surface Water sources**

There are no perennial or non perennial streams passing through the project site. The Halasahalli Lake, Gunjur Lake and Ramanayakanhalli Lake located at 0.61 km, 0.91 km and 0.96 km respectively. The water bodies located at higher elevation compared to project site and No excavation works are carried during monsoon. The water samples are collected during pre monsoon season 2023, the results are within the limits. There has been no impact on water bodies.

### **Ground water**

Ground water has not been used for construction. Source of water for construction was private water tanker supply. The water table in the area is below 18 -75 mbgl and excavation was proposed for site levelling only. Hence, there was no de-watering.

### **Environment**

As this is a new project Dishahabitat Projects LLP. the land use\Land cover change from agricultural land to commercial land. There are some shrubs and no trees present on the site. No major impact observed on land use of the project site. Project site is flat land having slope from Northwest to South-East. Elevation of the site varies from 894 m to 898 m amsl. No basements shall be constructed, and excavation has been carried only for construction of buildings.

### **Soil Environment**

Topsoil available at a depth of 1 feet in the project site which has been scooped and segregated separately and it is stockpiled separately in the site which will be used for plantation purpose. No excavation works or tree cutting, or vegetation removal works was undertaken during rainy season. No Impact due to soil erosion.

### **Solid and other waste**

Solid waste generated during earthwork activities typically includes materials that are excavated or removed from the ground during construction, grading, or excavation projects. The excavated material is used for backfilling, and no other waste is generated as no labour camps are constructed on the site."

### **Biological Environment**

Construction activities generate dust and this dust when get settled on leaves may impact the photosynthesis capacity of the plants. Also, vehicular emission like NO<sub>2</sub>, NO<sub>x</sub> etc. can inhibit the growth of plants and pre-mature leaves senescence. Due to noise generation fauna may get disturb resulting in their relocation and thus reducing the biodiversity of an area.

There is no Reserved Forest, wildlife sanctuaries and national parks found in the study area. No wildlife movement was observed in the area and there is no suitable habitat.

In the core zone, the surface area is less densified showing xeric nature in plants and no trees found in the project site. No important species (RET) were found in the project site.

Thus no degradation is accounted under the impact on ecology, biodiversity due to earth works.

### **Socio economic Environment**

There is no direct adverse impact observed due to violation activity on the socio-economic status of nearby villagers.



### Damage Cost

The estimated cost of damages resulting from earthwork activities conducted without prior Environmental Clearance is provided below.

#### *Damage Cost due to different activities*

Sl. No.	Description	Damage Cost (Rs.)
1.	Air Environment	18,47,504
2	Noise Environment	5,612
3.	Water Environment	200
Total		18,53,316

### Remediation plan

Proponent had initiated earthwork operations on their site without obtaining the necessary prior Environmental Clearance and comprehensive remediation plan has been developed to restore and enhance the affected ecosystem. This plan outlines the steps and measures that will be taken to address the environmental damage caused by the earthwork activities.

#### *Budget for remediation plan*

Sl. No.	Potential Impact	Environmental Protection Measure For Construction Phase	Unit Price	Calculation	Cost (Rs.)
1	Dust & Gaseous Emission	Barricading the periphery by corrugated sheet of 9m height	1m length x 9m height @ Rs 250 m (perimeter=1330 m)	Perimeter 1330 x Rs. 250	3,32,500
2		Avenue Plantation	2000 m length road @ 3 m interval on both side @ Rs 500 per tree	670 trees * Rs 500	3,35,000
3		Use of face mask to avoid inhalation of dust particles	20 labours	20 labours x Rs 500 per month	10,000
4		Periodic maintenance of construction equipment	1,00,000 per year	10 equipments x Rs. 10,000 per year	1,00,000
5	Ground water	Sewage effluent will be treated in mobile STP.	50 KLD Mobile STP	50kld mobile STP costs Rs. 18,00,000	18,00,000
6	Noise	Use of well-maintained equipment fitted with silencers	10,000 for silencer x 10 vehicles	Rs 10,000 for silencer x 10 vehicles	100,000
7		Providing earmuffs/	20 labours	20 labours x Rs	10,000




		earplug for working staff.		500 per month	
8	Soil	Topsoil will be conserved and reused for landscaping in the operational phase	Handling of topsoil using JCB	Volume of Top soil to be handled = 15,447.12cu.m x Rs.50/cu.m	7,72,356
9	Solid waste	Collection bins	3 bins	3 bins x Rs. 2000 per bin	6,000
10	Occupational Health and Safety	Fire Extinguisher	Rs. 5,000 per extinguisher	Rs. 5,000 per extinguisher x 10 piece	10,000
11		Emergency Room	2,000 sqft room	2000x500 per sqft	1,000,000
12		Medical Check up	Rs. 5000 per labour	5000*20	1,00,000
13	Land Environment	Green Belt Development for 960 No of trees	Rs. 500/tree	960 * 500	4,80,000
<b>Budget for Remediation Plan</b>					<b>13,36,000</b>

#### Natural Resource Augmentation Plan

M/s. Dishahabitat Projects LLP has agreed to provide a solar streetlight on road outside the project site and in Govt. schools, parks and library. Conservation of water by converting the existing abandoned wells into recharge structures in nearby villages

#### *Budget for Natural Resource Augmentation Plan*

Activity	Nos	Unit	Amount in Rs
Provision of solar street lights on roads outside the project sites and in Government schools, parks and library	10	10,000 per light	1,00,000
Conservation of water by converting the existing abandoned wells into recharge structures in nearby villages.	5	10,000 per pit	50,000
Total cost			1,50,000
Time period			1 year

#### COMMUNITY RESOURCE DEVELOPMENT

#### *Budget for Community Resource Development*

Activity	Amount in Rs
Improvement of drinking water infrastructure in government schools and library	2,00,000
Skill Development by organising training courses through ITIs.	1,00,000

Total cost	3,00,000
Time Period	1 Year

#### Bank Guarantee Amount Estimation

The estimated amount of bank guarantee towards the Remediation Plan, Natural and community resource augmentation is 17.86 Lakhs. The details of Bank guarantee amount estimation is given below

#### Bank Guarantee Amount Estimation

Activity	Budget in Lakhs	Time Period for implementation
Remediation plan	13.36	1 Year
Natural Resource Augmentation Plan	1.50	1 Year
Community Resource Development	3.0	1 Year
Total	17.86	1 Year

The Committee carefully analysed and accepted the calculations and appraised the Project.

The Committee during appraisal sought details regarding harvesting measures in the proposed area. The Proponent informed the Committee they had proposed storage tank of capacity 1,102cum capacity for runoff from rooftop and an additional tank of 1,492cum for runoff from hardscape and landscape areas along with 76number of recharge pits within the project area.

Further the Committee informed to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed.

The Proponent agreed to grow 960 trees in the project site area. The Proponent has collected baseline data of air, water, soil and noise and informed that all were within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines for the proposed construction and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters were found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide recharge tank of capacity 1,102 cum and 1,492 cum and 76 recharge pits.
2. To grow trees in the early stage before taking up of construction.
3. Proponent agreed to source external water from KGWA approved water tankers.
4. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site
5. Proponent agreed to construct lead of drains till the natural drains/water body for handling excess water.
6. To obtain Heigh Clearance from HAL before starting of construction activities.

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

**308.4 Building Stone Quarry Project at Donnenahalli Village, Bengaluru South Taluk, Bengaluru Urban District (1-37 Acres) by M/s. Adarsha Granites Stone Crushers – Online Proposal No.SIA/KA/MIN/450708/2023 (SEIAA 355 MIN 2021)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP																
1	Name & Address of the Projects Proponent	M/s. Adarsha Granites Stone Crushers																
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No.26 of Donnenahalli Village, Bengaluru South Taluk, Bengaluru Urban District (1-37 Acres)																
		<table border="1"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 12°52.897'</td> <td>E 77°23.560'</td> </tr> <tr> <td>N 12°52.858'</td> <td>E 77°23.558'</td> </tr> <tr> <td>N 12°52.871'</td> <td>E 77°23.556'</td> </tr> <tr> <td>N 12°52.862'</td> <td>E 77°23.494'</td> </tr> <tr> <td>N 12°52.896'</td> <td>E 77°23.495'</td> </tr> <tr> <td>N 12°52.893'</td> <td>E 77°23.533'</td> </tr> <tr> <td>N 12°52.898'</td> <td>E 77°23.533'</td> </tr> </tbody> </table>	Latitude	Longitude	N 12°52.897'	E 77°23.560'	N 12°52.858'	E 77°23.558'	N 12°52.871'	E 77°23.556'	N 12°52.862'	E 77°23.494'	N 12°52.896'	E 77°23.495'	N 12°52.893'	E 77°23.533'	N 12°52.898'	E 77°23.533'
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N 12°52.898'	E 77°23.533'																	
3	Type Of Mineral	Building Stone Quarry																
4	New/Expansion/Modification/Renewal	New																
5	Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]	Government																
6	Area in Acres	1-37 Acres																
7	Annual Production (Metric Ton / Cum) Per Annum	1,10,460Tones/ Annum (including waste)																
8	Project Cost (Rs. In Crores)	Rs. 0.30 Crores (Rs.30 Lakhs)																
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	5,98,851Tones (including waste)																
10	Permitted Quantity Per Annum - Cu.m / Ton	1,04,937 Tones / Annum (excluding waste)																
11	CER Activities: M/s Adarsha Granite Stone Crushers, have earmarked CER, which is 2% of the capital investment, to take-up Sanitation, Solid Waste Managment etc. in the nearby Donnenahalli Village (Open for discussion)																	
12	EMP Budget	Rs. 23.00 lakhs (Capital Cost) & Rs. 3.85 lakhs (Recurring cost)																
13	Forest NOC	12.09.2019																
14	Quarry plan	09.04.2021																
15	Cluster certificate	15.07.2021																
16	Notification	27.08.2009																
17	Revenue NoC	21.05.2020																
18	PH	17.04.2023																

The Committee initially sought clarification with respect to the present site condition based on the KML submitted by Proponent. The Proponent informed the Committee that the proposed area is a fresh land and due to the vehicular movement in the adjacent lease areas, proposed the area appears to be disturbed and emphasised that no mining has been carried out by the Proponent and hence justified that the proposed project does not attract violation. The Committee noted the clarification.

The proposal is for building stone quarry as the area considered for cluster is more than 5Ha, the proposal is categorized as B1 for which SEIAA had issued ToR on 17.11.2021 and public hearing was conducted on 17.04.2023, where opinions/requests of eight people had been recorded in public hearing report.

There is an existing cart track road to a length of 1140 meters connecting lease area to the all-weather black topped road. The Committee informed that the mining operation should be commenced after asphaltting the approach road to the quarry and road leading to the crusher as per IRC norms and to grow trees all along the approach road during the first year of operation and to comply with the request of public expressed during public hearing, to which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 5,98,851 Tons (including waste) and estimated the life of the quarry to be 6 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 1,10,460 Tonns/annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per IRC norms.
2. To grow trees all along the approach road during the first year of operation
3. Proponent agreed to take precautionary measures towards halla.
4. Proponent agreed to comply with the request of public, expressed during public hearing.
5. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.5 Building Stone Quarry Project at Donnenahalli Village, Bengaluru South Taluk, Bengaluru Urban District (2-00 Acres) by M/s. Adarsha Granites Stone Crushers – Online Proposal No.SIA/KA/MIN/450727/2023 (SEIAA 356 MIN 2021)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	M/s. Adarsha Granites Stone Crushers										
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No.26 of Donnenahalli Village, Bengaluru South Taluk, Bengaluru Urban District (2-00 Acres) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 12°53.081'</td> <td>E 77°23.565'</td> </tr> <tr> <td>N 12°52.995'</td> <td>E 77°23.581'</td> </tr> <tr> <td>N 12°52.989'</td> <td>E 77°23.552'</td> </tr> <tr> <td>N 12°53.076'</td> <td>E 77°23.537'</td> </tr> </tbody> </table>	Latitude	Longitude	N 12°53.081'	E 77°23.565'	N 12°52.995'	E 77°23.581'	N 12°52.989'	E 77°23.552'	N 12°53.076'	E 77°23.537'
Latitude	Longitude											
N 12°53.081'	E 77°23.565'											
N 12°52.995'	E 77°23.581'											
N 12°52.989'	E 77°23.552'											
N 12°53.076'	E 77°23.537'											

3	Type Of Mineral	Building Stone Quarry
4	New / Expansion / Modification / Renewal	New
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government
6	Area in Acres	2-00 Acres
7	Annual Production (Metric Ton / Cum) Per Annum	1,13,616 Tones/ Annum (including waste)
8	Project Cost (Rs. In Crores)	Rs. 0.30 Crores (Rs.30 Lakhs)
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	5,98,851 Tones (including waste)
10	Permitted Quantity Per Annum - Cu.m / Ton	1,07,935 Tones / Annum (excluding waste)
11	CER Activities: M/s Adarsha Granite Stone Crushers, have earmarked towards CER, which is 2% of the capital investment, to take-up Sanitation, Solid Waste Management etc. in the nearby Donnenahalli Village (Open for discussion)	
12	EMP Budget	Rs. 23.80 lakhs (Capital Cost) & Rs. 3.90 lakhs (Recurring cost)
13	Forest NOC	12.09.2019
14	Quarry plan	09.04.2021
15	Cluster certificate	15.07.2021
16	Notification	27.08.2009
17	Revenue	21.05.2020
18	PH	17.04.2023

The Committee initially sought clarification with respect to the present site condition based on the KML submitted by Proponent. The Proponent informed the Committee that the proposed area is a fresh land and no mining has been carried out by Proponent and hence justified that the proposed project does not attract violation. The Committee noted the clarification.

The proposal is for building stone quarry as the area considered for cluster is more than 5Ha, the proposal is categorized as B1 and for which SEIAA had issued ToR on 17.11.2021 and public hearing was conducted on 17.04.2023, where opinions/requests of eight people had been recorded in public hearing report.

There is an existing cart track road to a length of 1140meters connecting lease area to the all-weather black topped road. The Committee informed that the mining operation should be commenced after asphaltting the approach road to the quarry and road leading to the crusher as per IRC norms and to grow trees all along the approach road during the first year of operation and to comply with the request of public expressed during public hearing, to which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 5,98,851 Tons (including waste) and estimated the life of the quarry to be 6 years.



The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 1,13,616 Tonns/annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per IRC norms.
2. To grow trees all along the approach road during the first year of operation
3. Proponent agreed to take precautionary measures towards halla.
4. Proponent agreed to comply with the request of public, expressed during public hearing.
5. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.6 Moraba Building Stone Quarry (M-Sand) Project at Sy No. 233 of Moraba Village, Kudligi Taluk, Ballari District (15-00 Acres) by Sri Maresh M – Online Proposal No.SIA/KA/MIN/447054/2023 (SEIAA 549 MIN 2021)**

**About the project:**

Sl.N o	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	Sri Maresh M										
2	Name & Location of the Project	Moraba Building Stone Quarry (M-Sand) Project at Sy No. 233 of Moraba Village, Kudligi Taluk, Ballari District (15-00 Acres) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>14°50'29.7989"N</td> <td>76°23'05.9348"E</td> </tr> <tr> <td>14°50'21.2726"N</td> <td>76°23'11.5732"E</td> </tr> <tr> <td>14°50'17.7866"N</td> <td>76°23'04.2630"E</td> </tr> <tr> <td>14°50'26.5835"N</td> <td>76°23'01.2989"E</td> </tr> </tbody> </table>	Latitude	Longitude	14°50'29.7989"N	76°23'05.9348"E	14°50'21.2726"N	76°23'11.5732"E	14°50'17.7866"N	76°23'04.2630"E	14°50'26.5835"N	76°23'01.2989"E
Latitude	Longitude											
14°50'29.7989"N	76°23'05.9348"E											
14°50'21.2726"N	76°23'11.5732"E											
14°50'17.7866"N	76°23'04.2630"E											
14°50'26.5835"N	76°23'01.2989"E											
3	Type Of Mineral	Building Stone Quarry										
4	New / Expansion / Modification / Renewal	New										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government										
6	Area in Acres	15-00 Acres										
7	Annual Production (Metric Ton / Cum) Per Annum	3,67,347 Tones/ Annum (including waste)										
8	Project Cost (Rs. In Crores)	Rs. 0.80 Crores (Rs.80 Lakhs)										
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	54,93,753 Tones (including waste)										
10	Permitted Quantity Per Annum - Cu.m / Ton	3,60,000 Tones / Annum (excluding waste)										
11	CER Activities: To grow additional plantation of 1500 trees along the approach road and to provide infrastructure facilities to neary by Govt. school/hospital.											
12	EMP Budget	Rs. 15.10 lakhs (Capital Cost) & Rs. 6.92 lakhs (Recurring cost)										

13	Forest NOC	12.02.2020
14	Quarry plan	19.08.2021
15	Cluster certificate	04.09.2021
16	Notification	30.07.2021
17	Revenue	01.02.2020
18	PH	27.07.2023

The Committee initially noted the complaint received through email (samskruthid206@gmail.com) on 15<sup>th</sup> November 2023 for the present proposal and at the time of appraisal sought clarification for the following observations from the project Proponent and Consultant,

1. *There is a Temple (Religious monument) inside the applied lease where daily pooja is performed by the localities and this temple is marked on the toposheet by Survey of India., Which is not reflected in saiddocument.*

Reply : The Proponent informed the Committee that DMG after obtaining NoC from Revenue, Forest department they had notified the proposed area noting that there are no temple inside the applied area.

2. *Lessee covered the temple intentionally by red colour in key plan, so that the temple cannotbeobserved.*

Reply: Proponen informed the Committee that they key plan was prepared by DMG and there was no intention to hide and submitted the google images of the proposed area informing that there is no temple in the applied area.

2. *Lease sketch us not signed by the Dept. It is signed by a consultant and lessee.*

Reply: Proponent informed the Committee that Deputy Director of Mines and Geology had signed the lease sketch and the same was uploaded.

The Committee noted the clarification given by the Proponent and appraised the project.

The Committee during appraisal sought clarification with respect to the present site condition based on the KML submitted by Proponent. The Proponent informed the Committee that the proposed area is a Government land and local villagers have removed some material prior notification to the Proponent and no mining has been carried out by Proponent and hence justified that the proposed project does not attract violation. The Committee noted the clarification.

The proposal is for building stone quarry as the area considered for cluster is more than 5Ha, the proposal is categorized as B1 and for which SEIAA had issued ToR on 20.04.2022 and public hearing was conducted on 27.07.2023, where opinions/requests of fifty twopeople had been recorded in public hearing report.

There is an existing cart track road to a length of 1000 meters connecting lease area to the all-weather black topped road. The Committee informed that the mining operation should be commenced after asphaltting the approach road to the quarry and road leading to the crusher as per IRC norms and to grow trees all along the approach road during the first year of operation and to comply with the request of public expressed during public hearing, to which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 54,93,753Tons (including waste) and estimated the life of the quarry to be 15 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 3,67,347 Tonns/annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per IRC norms.
2. To grow trees all along the approach road during the first year of operation
3. Proponent agreed to take precautionary measures towards halla.
4. Proponent agreed to comply with the request of public, expressed during public hearing.
5. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.7 Bhomman Iron Ore Mine Project at ML No. 0014 of Holalkere Range of Niruthadi Reserved Forest, Bedarabommanahalli Hirekandavadi and other Villages, Chitradurga & Holalkere Taluk, Chitradurga District (93.6 Ha) by M/s. JSW Steel Limited – Online Proposal No.SIA/KA/MIN/447559/2023 (SEIAA 197 MIN 2023)**

**About the project:**

Sl.NO	PARTICULARS	INFORMATION		
1	Name & Address of the Project Proponent	M/s. JSW Steel Ltd. JSW Mining office, Vijayanagar Works:P.O. Vidyanagar-583275Dist. Ballari, Karnataka		
2	Name & Location of the Project	BHOMMAN IRON ORE MINE at Holakere Range of Niruthadi Reserved Forest, Bedarabommanahalli, Hirekandavadi and other Villages, Chitradurga & Holalkere Taluk, Chitradurga District,		
3	Co-ordinates	<b>Pillar No.</b>	<b>Pillar Latitude</b>	<b>Pillar Longitude</b>
		LBS-1	N14° 12' 51.10"	E76° 13' 41.61"
		LBS-2	N14° 12' 52.84"	E76° 13' 36.54"
		LBS-3	N14° 12' 49.74"	E76° 13' 34.45"
		LBS-4	N14° 12' 52.62"	E76° 13' 25.71"
		LBS-5	N14° 12' 57.74"	E76° 13' 24.02"
		LBS-6	N14° 13' 01.51"	E76° 13' 11.92"
		LBS-7	N14° 12' 42.14"	E76° 13' 03.84"
		LBS-8	N14° 12' 34.44"	E76° 13' 06.41"
		LBS-9	N14° 12' 26.59"	E76° 13' 10.27"
		LBS-10	N14° 12' 21.53"	E76° 13' 16.61"
		LBS-11	N14° 12' 20.65"	E76° 13' 19.02"

		LBS-12	N14° 12' 21.47"	E76° 13' 20.56"																																																
		LBS-13	N14° 12' 20.17"	E76° 13' 24.24"																																																
		LBS-14	N14° 12' 21.89"	E76° 13' 24.88"																																																
		LBS-15	N14° 12' 22.48"	E76° 13' 33.19"																																																
4	Type of Mineral	Iron Ore																																																		
5	New /expansion /modification /renewal	Expansion:1.0 to 4.0 MTPA with total excavation of 4.12 MTPA (IRON ORE: 4.0 MTPA + OB/IB/SB: 0.12 MTPA)																																																		
6	Type of Land [ Forest, Government Revenue, Gomal, Private/Patta, Other]	Forest land																																																		
7	Area in Ha	93.60 Ha.																																																		
8	Annual production (metric ton /Cum) per annum	4.0 MillomTonnes Per Annum																																																		
9	Project Cost (Rs. In Crores)	Rs. 2.5 Crores																																																		
10	Proved quantity of mine/quarry-Cu.m/Tons	80.03 Million Metric Tonnes (Mineable Reserves)																																																		
11	Permitted quantity per annum- Cu.m/Ton	4.0 MTPA																																																		
12	Approach Road	2.5kms from mine to connecting main road (SH-48).																																																		
13	Five years plan period	Area -46.39 Ha (Area Under Mining) Top RL- 955.5 mRL Bottom RL - 844 mRL																																																		
14	Conceptual stage	Area -63.88 Ha (Area Under Mining) Top RL- 970mRL Bottom RL-712 mRL																																																		
15	CER Activities:	<ul style="list-style-type: none"> <li>▪ Swachhata Pakhwada &amp; Other Awareness Activities</li> <li>▪ Clearing of Fire Line &amp; Watch Ward (Payment to Forest Dept.)</li> <li>▪ Solar Wi-Fi Tower (maintenance)</li> <li>▪ Afforestation/Greenbelt Development</li> <li>▪ Environmental Monitoring</li> </ul>																																																		
16	EMP Budget is Rs.90.0 Lakhs Proposed CSR Budget for next 5 years is Rs.502 Lakhs	<table border="1"> <thead> <tr> <th>S. No</th> <th>Description</th> <th>Capital Cost</th> <th>Recurring cost</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air Pollution Control Measures (Tanker water)</td> <td>-</td> <td>50.0</td> </tr> <tr> <td>2</td> <td>Environmental Monitoring</td> <td>-</td> <td>9.9</td> </tr> <tr> <td>3</td> <td>Afforestation</td> <td>-</td> <td>2.0</td> </tr> <tr> <td>4</td> <td>Maintenance of engineering structures as per approved Reclamation &amp; Rehabilitation Plan</td> <td>-</td> <td>5.0</td> </tr> <tr> <td>5</td> <td>Construction of engineering structures as per approved Reclamation &amp; Rehabilitation Plan</td> <td>10</td> <td>-</td> </tr> <tr> <td>6</td> <td>Clearing of Fire Line &amp; deployment of Watch Ward</td> <td>-</td> <td>5.0</td> </tr> <tr> <td>7</td> <td>Solar Wifi Tower (maintenance)</td> <td>-</td> <td>1.0</td> </tr> <tr> <td>8</td> <td>Ground Water Study</td> <td>2.0</td> <td>-</td> </tr> <tr> <td>9</td> <td>Conservation Plan</td> <td>78</td> <td>-</td> </tr> <tr> <td>10</td> <td>Occupational Health</td> <td>-</td> <td>10</td> </tr> <tr> <td colspan="2"><b>TOTAL (Rs in Lakhs)</b></td> <td><b>90.0</b></td> <td><b>82.9</b></td> </tr> </tbody> </table>			S. No	Description	Capital Cost	Recurring cost	1	Air Pollution Control Measures (Tanker water)	-	50.0	2	Environmental Monitoring	-	9.9	3	Afforestation	-	2.0	4	Maintenance of engineering structures as per approved Reclamation & Rehabilitation Plan	-	5.0	5	Construction of engineering structures as per approved Reclamation & Rehabilitation Plan	10	-	6	Clearing of Fire Line & deployment of Watch Ward	-	5.0	7	Solar Wifi Tower (maintenance)	-	1.0	8	Ground Water Study	2.0	-	9	Conservation Plan	78	-	10	Occupational Health	-	10	<b>TOTAL (Rs in Lakhs)</b>		<b>90.0</b>	<b>82.9</b>
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18	CCR	07.02.2023 (certified compliance report issued by Regional Office, MoEF&CC)
19	Earlier E.Cby SEIAA	26.07.2022
20	CFO	05.04.2021
21	Forest Clearance Date	21.11.2016
22	IBM Approval Date	29.03.2023
23	R&R Plan Date	19.09.2018
24	Public hearing	20.09.2023

The proposal is for expansion of EC for Iron Ore Mine of JSW from 1.0MTPA to 4.0MTPA, for which EC was issued earlier by SEIAA on 26.07.2022 and ToR was issued by SEIAA on 06.05.2023. The Proponent informed the Committee that lease was granted with ML No. 0014. Initially Vesting Order was issued by Govt. of Karnataka dated 03.06.2022.

Further with regard to the Forest Clearance, the Proponent informed that as per Vesting Order issued on 03.06.2022, the new lessee can continue mining operations on the land till expiry(i.e 2070) or termination of mining lease granted to it, as was being carried out by the previous lessee, on the basis of which the Proponent has applied for transfer of Forest Clearance.

This is a proposal for 4.0MTPA iron ore production in a total area of 93.60Ha.The Proponent has submitted certified compliance to the earlier E.C. conditions from Regional Office, MoEF&CC on 07.02.2023, in favor of M/s JSW Steel Limited.

Public hearing was conducted on 20.09.2023. The Committee reviewed the statements recorded by the people who attended the public hearing, for which the Proponent made a presentation submitting point wise compliance to all these issues/requirements raised by the public during public hearing. The Proponent informed that they would strengthen the approach road as per IRC (Indian Road Congress) standard norms & also to grow trees all along the approach road. The Proponent also submitted an undertaking to comply with approved Reclamation and Rehabilitation (R&R) Plan and to instal Pipe Conveyor Belt from Mine Head to the nearest Railway Siding and setup Beneficiation Plant.

The Proponent has collected baseline data for air, water, soil and noise and all parameters are found to be within permissible limits. The Proponent informed that all mitigative measures will be taken up to ensure that the parameters are maintained within permissible limits.

Considering the proved mineable reserve of 80.03 MTPA as per the approved Mining plan, the Committee estimated the life of the mine to be coterminous with a lease period and decided to recommend the proposal to SEIAA for issue of Environment Clearance for annual production of 4.0 MTPA,with following consideration,

1. Proponent agreed to install Pipe Conveyor Belt from Mine Head to the nearest Railway Siding within three years time by obtaining all necessary clearances.
2. Proponent agreed to take precautionary measures towards halla.
3. Proponent agreed to comply with the request of public, expressed during public hearing.
4. To comply with the observations in CCR issued by MoEF&CC
5. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.8 Sand Block Project - Block No.3 in Thunga River Bed at Manduvalli Village, Thirthahalli Taluk, Shivamogga District (12-00 Acres) by Sri Rapuri Subramanyam – Online Proposal No.SIA/KA/MIN/450946/2023 (SEIAA 80 MIN 2020)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	Sri Rapuri Subramanyam										
2	Name & Location of the Project	River Sand Block Project - Block No.3 in Thunga River Bed at Sy.No.146 of Manduvalli Village, Thirthahalli Taluk, Shivamogga District (12-00 Acres) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>13° 42' 44.52"N</td> <td>75° 22' 09.23"E</td> </tr> <tr> <td>13° 42' 38.78"N</td> <td>75° 22' 22.68"E</td> </tr> <tr> <td>13° 42' 42.57"N</td> <td>75° 22' 24.70"E</td> </tr> <tr> <td>13° 42' 47.93"N</td> <td>75° 22' 11.11"E</td> </tr> </tbody> </table>	Latitude	Longitude	13° 42' 44.52"N	75° 22' 09.23"E	13° 42' 38.78"N	75° 22' 22.68"E	13° 42' 42.57"N	75° 22' 24.70"E	13° 42' 47.93"N	75° 22' 11.11"E
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3	Type Of Mineral	River Sand Quarry										
4	New / Expansion / Modification / Renewal	New										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government										
6	Area in Acres	12-00 Acres										
7	Annual Production (Metric Ton / Cum) Per Annum	71,400 Tonns/annum (including waste)										
8	Project Cost (Rs. In Crores)	Rs.0.25 Crores (Rs.25 Lakhs)										
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	71,400 Tones (including waste)										
10	Permitted Quantity Per Annum - Cu.m / Ton	64,260 Tonns/annum (excluding waste)										
11	CER Activities: To grow 1500trees all along the approach road and in buffer zones and to provided infrastructure facilities to the nearby Govt School or Hospital											
12	EMP Budget	Rs.9.50 Lakhs (Capital Cost) & Rs.3.10 lakhs (Recurring cost)										
13	Forest NOC	06.05.2022										
13	Revenue	10.10.2022										
14	Cluster certificate	09.12.2019										
15	Irrigation	22.08.2022										
16	DTF	10.01.2017										
17	App. Quarry Plan	10.08.2022										
18	PH	08.08.2023										
19	JIR	3 mtr										

The proposal is for River Bed Sand Mining. As the area considered for cluster is more than 5Ha, the proposal was categorized as B1, for which SEIAA had issued ToR on 28.08.2020 and public hearing

was conducted on 08.08.2023, where opinions/requests of ten people had been recorded in public hearing report. The Committee sought clarification from Proponent regarding method of mining proposed in compliance to Hon'ble NGT (SZ) Directions in O.A 194/2020 dated 15.09.2022 i.e not to use any machinery for excavation of sand, for which the Proponent informed that they have proposed manual method of mining.

There is an existing cart track road to a length of 450 meters connecting the lease area to the all-weather black topped road and the Committee informed that the mining operation should be commenced after concreting the approach road as per standard norms and to grow trees all along the approach road and in the banks of the river, to strictly implement bund protection works, dust mitigation measures and not to use any machinery for excavation of sand as per Hon'ble NGT (SZ) Directions in O.A 194/2020 dated 15.09.2022 and also not to carry out in-stream mining, to which the Proponent agreed. Proponent informed the Committee that they had obtained DMG approved replenishment report for the proposed sand quarry considering the catchment area and rainfall details. Further the Committee sought clarification regarding dry weather flow, for which the Proponent submitted photos of March 2023 showing availability of sand and dry weather flow and informed the Committee that mining operations would be carried out only in dry weather conditions.

The Proponent has collected baseline data of air, water, soil and noise and all are within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits. In the proposed project, the Proponent agreed to follow the conditions stipulated in sustainable sand mining guidelines 2016 and Enforcement & Monitoring guidelines 2020.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 71,400 tonns per year (including waste) and estimated the life of the quarry to be 5 years with due replenishment every year.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 71,400 tons per year (including waste) after due replenishment every year, with following consideration,

1. Proponent agreed to concrete the approach road to the quarry as per standard norms
2. Proponent agreed to comply with the request of public, expressed during public hearing.
3. To implement mine closure plan effectively after mining operation
4. To grow trees all along the approach road during the first year of operation.
5. Mining should be carried out after due replenishment every year
6. Proponent agreed to abide by the Sustainable sand mining guidelines 2016 and Enforcement & Monitoring Guidelines 2020
7. To comply with the Hon'ble NGT Directions in O.A 194/2020 dated 15.09.2022 and for any violation against the Directions of Hon'ble NGT Directions in O.A 194/2020 dated 15.09.2022, the Proponent would be held responsible.
8. To follow Labour laws and Mines Act in the proposed project.
9. To carry out bank stabilization works.

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



308.9 **Sponge Iron Plate Project at Dindadhahalli Village, Chitradurga Taluk & District by M/s. Sri Vijaya Durga Devi Minerals – Online Proposal No.SIA/KA/IND1/450742/2023 (SEIAA 01 IND 2023)**

About the project:

Sl No.	Particulars	Information Provided By PP
1	Name of the project proponent:	M/s. Sri Vijaya Durga Devi Minerals
2	Name & Location of the project:	M/s. SRI VIJAYA DURGA DEVI MINERALS H.No. 35/94, Ramnagar 1 <sup>st</sup> Cross, Havambhavi, Siruguppa Road, Bellary District-583104
3	New /expansion/ modification /Product mix change:	New
4	Capacity	Sponge Iron Plant – 2X 50 TPD + 1 X 90 TPD
5	Plot Area	4-00 Acres (1.618 Ha)
6	Built Up Area	4-00 Acres (1.618 Ha)
7	Land use pattern Green Belt Coverage - % of total area (trees proposed) Ground Cover area Kharab, Others.	Area for raw materials storage - 0.25 acres Area for buildings (plant & Non-plant) – 1.75 Acres Roads, drains & other open areas – 0.65 Acres Area for Green Belt Development – 1.35 Acres
8	Project Cost	35.0 Crores
9	Type of Industries	Sponge Iron Plant category 3(a) as per EIA Notification 2006
10	Source of water -operational phase:	Ground Water
11	Total Water Requirement (Domestic + Industrial) in KLD	246.0 KLD
12	Fresh Water in KLD Recycled water in KLD	240 KLD 6 KLD
13	Total waste water generation in KLD	-
14	Total effluents generation in KLD	-
15	Scheme of disposal of excess treated water	-
16	Quantity of Tailings and its management	-
17	ETP Capacity	-
18	STP Capacity	250 KLD



19	Types of waste Generation & its Disposal	Waste/by Product generated	Proposed point of reuse																																																				
		Coal fines & char	Will be sold to nearby power plant/brick making units																																																				
		Kiln accretions	Will be used for filling in low lying areas and levelling																																																				
		Process Dust	Will be collected and stored in a designated area, for sale to nearby agglomeration plants																																																				
20	Solid Waste	Coal fines & char, Kiln accretions, Process Dust																																																					
21	Hazardous Waste and its handling	Used oil/waste oil- 250 Ltrs /year (approx.) Disposal Mode: It will supply to the authorized recyclers																																																					
22	CER Activities	<b>PROPOSED ESC ACTIVITIES</b> Construction of W/C/Toilet (2) each - 2 numbers in school Drinking Water Infrastructure Construction of metal consolidation road (1 km) in village Development of Community Hall - Total 1 nos. Local Village Pond upgradation - 1 ponds Street Lighting (solar) provision at suitable public places <b>TOTAL</b>																																																					
23	RMP Budget	<table border="1"> <thead> <tr> <th>S. No</th> <th>Particulars</th> <th>Capital Cost (Rs. In Crores)</th> <th>Recurring Cost / Annum (Rs. In Crores)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air Emission Management</td> <td>5.5</td> <td>0.55</td> </tr> <tr> <td>2</td> <td>Wastewater Management</td> <td>1.5</td> <td>0.15</td> </tr> <tr> <td>3</td> <td>Solid waste Management</td> <td>0.7</td> <td>0.07</td> </tr> <tr> <td>4</td> <td>Greenbelt development, Land reclamation</td> <td>0.45</td> <td>0.045</td> </tr> <tr> <td>5</td> <td>Noise Management</td> <td>0.8</td> <td>0.08</td> </tr> <tr> <td>6</td> <td>Occupational Health Management</td> <td>0.7</td> <td>0.07</td> </tr> <tr> <td>7</td> <td>Risk Mitigation &amp; Safety Plan</td> <td>0.3</td> <td>0.03</td> </tr> <tr> <td>8</td> <td>Environmental Monitoring</td> <td>0.2</td> <td>0.025</td> </tr> <tr> <td colspan="2">Sub Total</td> <td>7.75</td> <td>1.02</td> </tr> <tr> <td>9</td> <td>Budget for Public Hearing</td> <td>7.50</td> <td>-</td> </tr> <tr> <td>10</td> <td>Budget for CER</td> <td>-</td> <td>0.12</td> </tr> <tr> <td colspan="2">Total</td> <td>15.34</td> <td>1.14</td> </tr> </tbody> </table>	S. No	Particulars	Capital Cost (Rs. In Crores)	Recurring Cost / Annum (Rs. In Crores)	1	Air Emission Management	5.5	0.55	2	Wastewater Management	1.5	0.15	3	Solid waste Management	0.7	0.07	4	Greenbelt development, Land reclamation	0.45	0.045	5	Noise Management	0.8	0.08	6	Occupational Health Management	0.7	0.07	7	Risk Mitigation & Safety Plan	0.3	0.03	8	Environmental Monitoring	0.2	0.025	Sub Total		7.75	1.02	9	Budget for Public Hearing	7.50	-	10	Budget for CER	-	0.12	Total		15.34	1.14	
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	RMP Construction Operation.	<b>AIR</b> > Asphalted of the connecting road and maintenance. > Water sprinkling and dry fog type dust suppression system will be provided. > The greenbelt & plantation will be developed in and around the plant. <b>NOISE (Construction Phase)</b> > Selection of low noise generation machinery / equipment.																																																					

		<ul style="list-style-type: none"> <li>&gt; All vehicles will silencers to minimize the noise</li> </ul> <p><b>NOISE (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>&gt; The most of the equipment shall be designed to comply with the stipulated limit of 85dB(A).</li> <li>&gt; Vibration isolators will be provided to reduce vibration and noise wherever possible.</li> </ul> <p><b>WATER (Construction Phase)</b></p> <ul style="list-style-type: none"> <li>&gt; Proper drainage of wastewater from the construction sites will be made, so that such waters do not form stagnant pools nor aggravate soil erosion.</li> <li>&gt; Proper and effective Environmental Management Planning will be implemented to minimize the water usage.</li> </ul> <p><b>WATER (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>&gt; The wastewater generated will be treated and reused in circuit again and again.</li> <li>&gt; The tailing pond will be designed such that no waste water will percolate and mix with ground water.</li> </ul> <p><b>SOIL (Construction Phase)</b></p> <ul style="list-style-type: none"> <li>&gt; Water spraying shall be carried out on the roads inside the plant where vehicles carrying materials.</li> <li>&gt; The materials brought for construction will be stored covered with plastic/tarpaulin sheets and all the discarded materials will be disposed of regularly and shall keep the place neatly.</li> </ul> <p><b>SOIL (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>&gt; Dust emissions sources due to vehicular movement will be sprayed by water.</li> <li>&gt; Parking areas shall be identified. Unnecessary idling of vehicular movements shall be restricted. Vehicle speed shall be restricted to &lt;15 kmph.</li> </ul>
24	EMP DRI Plant	<p><b><u>ACTION PLAN FOR CONTROL OF STACK EMISSION MEASURES</u></b></p> <ul style="list-style-type: none"> <li>&gt; The waste gas generated in DRI process will be re-circulated generate electricity through WHRB power plant.</li> <li>&gt; Wet scrubbing and Electrostatic precipitator (ESP) will be part of environment management system to clean the gases from DRI.</li> <li>&gt; Regular cleaning and maintenance of the air pollution control system will be carried out.</li> <li>&gt; The height of the chimneys will be increased based on requirement.</li> <li>&gt; Apart from road transport, the transportation of</li> </ul>

coal and other material will be preferably done by railway.

- Coal will be stored in a closed shed.

**MEASURES FOR FUGITIVE EMISSION CONTROL**

- The vehicle carrying coal and iron ore will be covered with tarpaulin.
- All Internal roads will be cemented to prevent the fugitive dust emission due to vehicular movement.
- Speed limit in plant premises will be in control.
- All transportation vehicles carry/will carry a valid PUC (Pollution under Control) Certificate.
- Proper traffic management is being/will be undertaken.
- Proper servicing& maintenance of vehicles is being/will be carried out.
- Adequate greenbelt development.
- Dust masks are being/will be provided to workers coming in direct contact of fugitive emissions.
- Water Sprinkling/Dry fog type dust suppression system will be provided.
- Adequate spares of critical components of dust and gas collection systems to ensure trouble - free operations.
- Ambient air quality is being/will be regularly monitored to keep a check on the emissions of different pollutants.

The proposal is for establishing sponge iron plant of 2x50TPD & 1x90TPD. ToR was issued by SEIAA on 06.01.2023 and public hearing was conducted on 23.08.2023. The Proponent informed that the proposed land is non forest land and had obtained land conversion for the proposed activity.

During the appraisal, the Committee sought details regarding handling of flue gasses, details of railway line, handling of waste heat generated in the process. The Proponent informed the Committee that in the proposed project they will be incorporating environmentally sound technology for recycling flue gas by using advanced emission control techniques like scrubbers, electrostatic precipitators, or fabric filters to remove these pollutants before they are released into the atmosphere and for controlling fugitive emission, concreting the internal roads, adequate green belt development, regular sprinkling of water(dry fog dust suppressing system), regular monitoring of ambient air quality, transport vehicles considered with Pollution under control certificate, etc. to be undertaken. The Proponent informed that they had provided sufficient buffer of 30mtrs from the edge of project boundary to the railway line. Regarding waste heat generated Proponent informed that there is no captive power generation proposed and entire power is obtained from BESCOM. The Committee informed the Proponent to take additional dust mitigation measures towards the village.

Further the Proponent informed about the control measures that would be taken for sponge iron plant such as action plan for control of stack emission measures and informed about the methods that would be implemented in the proposed project.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the statutory guidelines for the proposed construction/operation and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area to reduce dependency on groundwater.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To adhere to the compliance given in response to the opinion of public expressed during public hearing
2. To carry three rows of plantation all along the boundary of the project and approach road to the industry and towards the village side/
3. Proponent agreed to retain the natural drains with buffers.
4. To provide STP within the site area.
5. To manage waste heat with proper mitigation measures.

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



**308.10 Mineral Beneficiation Plant Project at Dindadhahalli Village, Chitradurga Taluk & District by  
M/s. Sri Vijaya Durga Devi Minerals – Online Proposal No.SIA/KA/IND1/450732/2023  
(SEIAA 02 IND 2023)**

About the project:

<b>M/s. Sri Vijaya Durga Devi Minerals</b>																						
<b>Sl. No.</b>	<b>Particulars</b>	<b>Information Provided By PP</b>																				
1	Name of the project proponent:	M/s. Sri Vijaya Durga Devi Minerals																				
2	Name & Location of the project:	M/s. SRI VIJAYA DURGA DEVI MINERALS H.No. 35/94, Bannur 1st Cross, Havambhaya, Sirusappa Road, Ballary District, Karnataka - 583104																				
3	New/expansion/modification/Product mix change:	New																				
4	Capacity	4,95,000 TPA																				
5	Plot Area	5.01 Acres (2.03 Ha)																				
6	Built Up Area	5.01 Acres (2.03 Ha)																				
7	Land use pattern Green Belt Coverage - % of total area (trees proposed) Ground Cover area Kharab. Others.	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>Area for Washing Plant Area</td> <td>0.99</td> </tr> <tr> <td>Area for Green belt</td> <td>0.46</td> </tr> <tr> <td>Area for Stockyard</td> <td>0.19</td> </tr> <tr> <td>Area for Tailing pond</td> <td>0.42</td> </tr> <tr> <td>Area for Statutory Buildings</td> <td>0.06</td> </tr> <tr> <td>Area for Tailing Dump</td> <td>0.22</td> </tr> <tr> <td>Area for Roads</td> <td>0.09</td> </tr> <tr> <td>Unused Area</td> <td>-</td> </tr> <tr> <td><b>Total</b></td> <td><b>2.03</b></td> </tr> </tbody> </table>	Particulars	Area in Ha	Area for Washing Plant Area	0.99	Area for Green belt	0.46	Area for Stockyard	0.19	Area for Tailing pond	0.42	Area for Statutory Buildings	0.06	Area for Tailing Dump	0.22	Area for Roads	0.09	Unused Area	-	<b>Total</b>	<b>2.03</b>
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<b>Total</b>	<b>2.03</b>																					
8	Project Cost	13.95 Crores																				
9	Type of Industries	Mineral Beneficiation plant																				
10	Source of water -operational phase:	Ground Water																				
11	Total Water Requirement (Domestic + Industrial) in KLD	136.0 KLD																				
12	Fresh Water in KLD Recycled water in KLD	128 KLD 8 KLD																				
13	Total waste water generation in KLD	-																				
14	Total effluents generation in KLD	-																				
15	Scheme of disposal of excess treated water	-																				
16	Quantity of Tailings and its management	100 TPD The tailings will be sold to the cement plant in the form																				

		of calce.					
17	ETP Capacity	-					
18	STP Capacity	140 KLD					
19	Types of waste Generation & its Disposal	The major solid waste that will be generated from the proposed plant will be the iron ore tailings, which will be utilized for brick/ tiles manufacturing or will be sold to cement manufacturers in the region.					
20	Solid Waste	The major solid waste that will be generated from the proposed plant will be the iron ore tailings, which will be utilized for brick/ tiles manufacturing or will be sold to cement manufacturers in the region.					
21	Hazardous Waste and its handling	Used oil/waste oil- 500 Ltrs/year (approx.) Disposal Mode: It will supply to the authorized recyclers					
22	CER Activities	-					
23	EMP Budget						
			Environment al parameters	Environment t managemen t activities	Capita l Cost (Lakhs)	Activities	Recurr Cost (Lakhs)
			Air Pollution Control	Installation of Dusting system and water sprinkling system	20	Maintenance of Air pollution Control Systems	10
				Installation of bagfilters in the crusher unit	10		
			Noise Pollution Control	Noise absorber systems in pump houses.	20	Maintenanc e of Noise generating equipments	5
			Water Pollution and conservation	Installation of STP Construction of internal surface water drain and settling pits Construction of RWH pond	35	Maintenance of STP, Desilting of tanks, maintenance of RWH	5
			Solid waste management	Storage of tailing and transport for	5		

		brick manufacturing and mining void filling			
	Ecology and Biodiversity	Development of three tier plantation within the plant premises with 690 saplings	5	Regular replacement of sapling, maintenance of green belt, watering, watch and ward etc.	1
	Occupational health & safety	Initial and Periodical medical check up of the workers	5	Periodical health checks up	1
		Supply of PPEs to the workers		Replacement of PPEs if required	1
	Environmental Monitoring	AAQ Monitoring (One continuous monitoring station at plant site) and 3 location once in a month	25		10
		Noise Monitoring	3		1
					Manual Monitoring AAQM, Fugitive, Water, Noise, Leachate by NABL/MoE & Approved Lab
		Occupational Health Check up	5		1

		<b>Sub Total</b>	133	Rainwater harvesting pits to the GHPS school in nearby villages	30
		<b>Budget for Public Hearing Response</b>	10		-
		<b>Total</b>	143		30
<b>EMP</b> Construction. Operation.	<p><b>AIR</b></p> <ul style="list-style-type: none"> <li>➤ Asphaltting of the connecting road and maintenance.</li> <li>➤ Water sprinkling and dry fog type dust suppression system will be provided.</li> <li>➤ The greenbelt &amp; plantation will be developed in and around the plant.</li> </ul> <p><b>NOISE (Construction Phase)</b></p> <ul style="list-style-type: none"> <li>➤ Selection of low noise generation machinery / equipment.</li> <li>➤ All vehicles will silencers to minimize the noise</li> </ul> <p><b>NOISE (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>➤ The most of the equipment shall be designed to comply with the stipulated limit of 85dBA.</li> <li>➤ Vibration isolators will be provided to reduce vibration and noise wherever possible.</li> </ul> <p><b>WATER (Construction Phase)</b></p> <ul style="list-style-type: none"> <li>➤ Proper drainage of wastewater from the construction sites will be made, so that such waters do not form stagnant pools nor aggravate soil erosion.</li> <li>➤ Proper and effective Environmental Management Planning will be implemented to minimize the water usage.</li> </ul> <p><b>WATER (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>➤ The wastewater generated will be treated and reused in circuit again and again.</li> <li>➤ The tailing pond will be designed such that no waste water will percolate and mix with ground water.</li> </ul> <p><b>SOIL (Construction Phase)</b></p> <ul style="list-style-type: none"> <li>➤ Water spraying shall be carried out on the roads inside the plant where vehicles carrying materials.</li> <li>➤ The materials brought for construction will be stored covered with plastic/tarpaulin sheets and all the discarded materials will be disposed of regularly and shall keep the place neatly.</li> </ul> <p><b>SOIL (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>➤ Dust emissions sources due to vehicular</li> </ul>				



		<p>movement will be sprayed by water.</p> <ul style="list-style-type: none"> <li>➤ Parking areas shall be identified. Unnecessary idling of vehicular movements shall be restricted. Vehicle speed shall be restricted to &lt;15 kmph.</li> </ul>
24	EMP DRI Plant	<p><b><u>ACTION PLAN FOR CONTROL OF STACK EMISSION MEASURES</u></b></p> <ul style="list-style-type: none"> <li>➤ The waste gas generated in DRI process will be re-circulated generate electricity through WHRB power plant.</li> <li>➤ Wet scrubbing and Electrostatic precipitator (ESP) will be part of environment management system to clean the gases from DRI.</li> <li>➤ Regular cleaning and maintenance of the air pollution control system will be carried out.</li> <li>➤ The height of the chimneys will be increased based on requirement.</li> <li>➤ Apart from road transport, the transportation of coal and other material will be preferably done by railway.</li> <li>➤ Coal will be stored in a closed shed.</li> </ul> <p><b><u>MEASURES FOR FUGITIVE EMISSION CONTROL</u></b></p> <ul style="list-style-type: none"> <li>➤ The vehicle carrying coal and iron ore will be covered with tarpaulin.</li> <li>➤ All Internal roads will be cemented to prevent the fugitive dust emission due to vehicular movement.</li> <li>➤ Speed limit in plant premises will be in control.</li> <li>➤ All transportation vehicles carry/will carry a valid PUC (Pollution under Control) Certificate.</li> <li>➤ Proper traffic management is being/will be undertaken.</li> <li>➤ Proper servicing &amp; maintenance of vehicles is being/will be carried out.</li> <li>➤ Adequate greenbelt development.</li> <li>➤ Dust masks are being/will be provided to workers coming in direct contact of fugitive emissions.</li> <li>➤ Water Sprinkling/Dry fog type dust suppression system will be provided.</li> <li>➤ Adequate spares of critical components of dust and gas collection systems to ensure trouble - free operations.</li> <li>➤ Ambient air quality is being/will be regularly monitored to keep a check on the emissions of different pollutants.</li> </ul>

The proposal is for expansion of beneficiation plant from 19,000 MTPA to 4.5 Lakh MTPA. The Proponent informed that for the existing unit, they had obtained EC from SEIAA on 26.04.2016 and

for the proposed expansion ToR was issued by SEIAA on 06.01.2023 and public hearing was conducted on 23.08.2023 and the Proponent had obtained CCR from MoEF&CC dated 06.11.2023 informing that the existing unit is not under operation and construction.

During the appraisal, the Committee sought details regarding disposal of tailings, handling of fugitive emissions, cumulative emission details considering existing and proposed plants and details as per village map. The Proponent informed about the control measures that would be taken in and around the beneficiation plant and explained that the proposed project is dry processing unit and hence no tailing would be generated as in wet processing. The tailing would be transported to mines for backfilling of exhausted pit.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the statutory guidelines for the proposed construction/operation and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area to reduce dependency on groundwater.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To adhere to the compliance given in response to the opinion of public expressed during public hearing (mainly to provide employment for local people).
2. To carry out three rows of plantation all along the boundary of the project and approach road to the industry.
3. Proponent agreed to retain the natural drains with buffers.
4. To provide STP within the site area.
5. To provide stack height more than 30mtrs.
6. To comply with the observations in CCR issued by MoEF&CC

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



**308.11 Proposed Formaldehyde: 50 TPD Project at Baikampady Industrial Area, Mangalore Taluk, Dakshina Kannada District by M/s. Akolite Synthetic Resins Unit II – Online Proposal No.SIA/KA/IND3/451184/2022 (SEIAA 09 IND (VIOL) 2023)**

About the project:

SL.No	PARTICULARS	INFORMATION																
1.	Name of the project Proponent	Mr. Mohammad Rafiq, Authorised Signatory																
2.	Name & Location of the project:	M/s. Akolite Synthetic Resins Unit II Plot No. 412 & 413, Baikampady KIADB Industrial Area, Surathkal Hobli, Mangalore, Dakshina Kannada District.																
3.	New/expansion/modification/ product mix change	The project is under violation category. Formaldehyde manufacturing unit is established and operated without prior EC.																
4.	Plot Area	1.48 Acres																
5.	Built Up Area	0.69 Acres																
6.	Project Cost	Rs. 11.93 Crores																
7.	Component of development:																	
8.	Source of water -operational phase	KIADB																
9.	Total Water Requirement (Domestic + Industrial) in KLD	1.5KLD+78.5 KLD																
10.	Fresh Water in KLD Recycled water in KLD	80KLD																
11.	Total wastewater generation in KLD	4.3KLD including domestic sewage 1.3 KLD																
12.	Total effluents generation in KLD	-																
13.	Scheme of disposal of excess treated water	Treated water will be reused for cooling tower makeup. The effluent generated will be treated and recycled back to system to achieve ZLD																
14.	ETP Capacity	5 KLD																
15.	STP Capacity	Modular STP of 5 KLD is Proposed.																
16.	Waste Generation & its Disposal																	
17.	Solid Waste	3.8 Kg/Day: Domestic garbage is the only solid waste that would be generated Collected in bins and disposed to waste collection system of local authority																
18.	Hazardous Waste	<table border="1"> <thead> <tr> <th>Waste category</th> <th>Hazardous waste generated</th> <th>Quantity KG/A</th> <th>Method of handling</th> </tr> </thead> <tbody> <tr> <td>28.1</td> <td>Spent catalyst-silver</td> <td>140</td> <td>Sent to supplier for reactivation</td> </tr> <tr> <td>5.1</td> <td>Used Oil</td> <td>50</td> <td>Sent to KSPCB Authorized recyclers every three months</td> </tr> <tr> <td>33.1</td> <td>Discarded containers</td> <td>2</td> <td>Stored in secure manner</td> </tr> </tbody> </table>	Waste category	Hazardous waste generated	Quantity KG/A	Method of handling	28.1	Spent catalyst-silver	140	Sent to supplier for reactivation	5.1	Used Oil	50	Sent to KSPCB Authorized recyclers every three months	33.1	Discarded containers	2	Stored in secure manner
Waste category	Hazardous waste generated	Quantity KG/A	Method of handling															
28.1	Spent catalyst-silver	140	Sent to supplier for reactivation															
5.1	Used Oil	50	Sent to KSPCB Authorized recyclers every three months															
33.1	Discarded containers	2	Stored in secure manner															
19.	Green Belt Coverage - % of total area	38.6%																
20.	EMP	Capital cost Rs. 34 Lakhs, recurring cost. Rs. 11 lakhs /annum																
21.	CER Activities	Providing avenue Plantation by Planting 200 tree saplings and securing mangrove trees Rs. 1.0 lakhs earmarked. Lake rejuvenation and improving the vicinity of the Gulpura Lake and Baggundi Lake. Rs. 1 Lakhs earmarked.																

The proposal is for production of Formaldehyde of capacity 50 TPD Dinplot area of 6000 sqm in KIADB industrial area. The Proponent informed that they had obtained CFE from KSPSC dated 31.05.2013 and has started operation without obtaining EC, hence had applied under violation category as per SoP issued by MoEF&CC dated 07.07.2021. SEIAA had issued ToR on 08.06.2023 and as the proposed unit is located in notified industrial area, the proposal is exempted from Public hearing.

The Proponent as per the provisions in SoP issued by MoEF&CC dated 07.07.2021, submitted the following details,

➤ **RAW MATERIAL REQUIREMENT**

Sl. No.	Raw Materials	Quantity	Source & Mode of transportation	Storage mode
1	Methanol	25.6 TPD	The raw material will be sourced from dealers.	Underground MS tanks placed in a secured manner and dispensed as per batch scheduled.
2	Silver catalyst	70 Kg once in five to six months	Raw materials will be sourced from dealers.	10 kg packet of 40 to 60 mm size will be stored in a secured manner.

➤ **WASTEWATER TREATMENT METHODS**

**Wastewater treatment Methods**

Sl. No.	Sources	Treatment system proposed	Final disposal of treated effluent
1	Domestic 1.3 KLD	Treated in the septic tank and disposed of through a soak pit.	Treated sewage will be used for green belt.
2	Industrial 3 KLD	ETP - 5 KLD	The wastewater from the manufacturing process is collected in storage tank of 5 KL capacity along with utility effluents. Treated in ETP after primary treatment it will be reused for cooling tower make up.

➤ **AIR ENVIRONMENT & MANAGEMENT**

**Air pollution source and control measures**

Sl No	Chimney Attached	Capacity	Fuel	Quantity	Chimney Height	Air Pollution Control Unit	Parameters
1	D.G. Sets	320 kVA	HSD	40 l/h	10 m AGL	Acoustic enclosure	SO <sub>2</sub> , NO <sub>2</sub>
2 A M A G	Boiler	4 TPH*	<ul style="list-style-type: none"> <li>Recovered gases from process.</li> <li>Firewood.</li> </ul>	130 kg/h	30m AGL	Dust collector	PM

D

### ASSESSMENT STUDY

The total project cost for establishment of formaldehyde manufacturing as certified by the Chartered Accountant is Rs. 11,93,11,890 /- (Rs. 11.93 Crores). The penalty estimated as per the SOP dated 07.07.2021 based on investment is Rs. 596559.45 (@ of 1% and halved) and the total turnover of the company during the violation period is Rs. 81,20,90,888 /- and penalty estimated based on the Turnover is Rs. 19,15,113.61 (@ of 0.25% and halved). As per paragraph 12.2 of SOP dated 07.07.2021, the percentage value is halved as the company has suo-moto reported the violation while making the application for EC.

The details of the total turnover during the violation period and summarised penalty on the investment and turnover is below,

**Table 1.3 The total turnover during the violation period**

Sl. No	Particulars	Sales/turn over
1	2015-2016	1,88,17,748
2	2016-2017	6,24,39,786
3	2017-2018	10,58,50,812
4	2018-2019	12,70,93,649
5	2019-2020	11,33,29,908
6	2020-2021	11,63,57,870
7	2021-2022	13,42,06,058
8	2022-2023	13,39,95,057
Total		<b>Rs. 812090888</b>

**Table 1.4 Penalty on the investment and Turnover**

Particulars	Amount	Penalty
Turnover	Rs. 812090888	
Total Project Cost	Rs. 11,93,11,890	
Total Damage cost(lakhs)		

### **Ecological Damage Assessment**

Ecological damage assessed due to establishment and operation of the formaldehyde plant is given in Table 1.5.

### **Ecological damage assessed**

A. Environment Damage Cost (in Rs.)	Amount in Rs.
<b>Air Environment</b> <ul style="list-style-type: none"><li>• Due to construction activities Rs. 79040</li><li>• Due to Operation of Boiler Rs. 96033.08</li><li>• Due to Operation of DG set Rs. 7581.03</li></ul>	182654.38
<b>Water Environment</b> <ul style="list-style-type: none"><li>• Due to construction work Rs. 1883.6</li><li>• Due to operation of the industry Rs. 1184495</li></ul>	1186378.6
<b>Noise Environment</b>	5000
<b>Land Environment</b>	1367.24

10% of EMP budgetary is considered (EMP capital cost is Rs. 19 Lakhs which is excluded providing Air pollution control devices as it is already in place during the violation period)	190000 /-
<b>Total</b>	<b>1565400.22</b>

#### Summary of Damage assessment and NCRAP

The total amount to be spent on Remediation plan and Natural Resource Augmentation Plan and Community Resource Augmentation Plan will be **Rs. 1565000**. This plan will be implemented in three years after obtaining all necessary clearances for the project. The summarized action plan of Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan is provided in the Table 1.6

**Table 1.6 Summary of Remediation Plan, Natural Resource Augmentation Plan and Community Resource Augmentation Plan.**

Sl. No	Aspects	Budget (Rs.)
1	Natural resource augmentation plan for 3 years	8,50,000
2	Community resource augmentation plan	7,15,000
<b>Total</b>		<b>15,65,000</b>

M/s. Akolite Synthetic Resin has undertaken to execute the following Remediation and Natural and Community Resource Augmentation plan as given in

#### Natural Resource Augmentation Plan along with budget

Sl. No.	Proposed Activities	Budget (Rs.)		
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
1	Providing avenue Plantation around Baggundi Lake, Gurple Lake and KIADB industrial area on either side of the road approach to Akolite industries, about 200 Nos. saplings @ Rs. 500/- per sapling is considered.	50000	50000	-
2	Rainwater harvesting system in government schools located Borugudde or Hosabettu or Kavoor in consultation with school authority or any other requirements	50000		
3	Revitalization and revival of mangroves located in and around the Baikampady Industrial Cluster	300000	200000	200000
<b>Total</b>				<b>1,00,000</b>

#### Community Augmentation Plan

#### Community Resource Augmentation Plan along with budget

Sl. No	Proposed Activities	Budget (Rs.)
1	Providing Ambulance to Government Primary healthcare centre and other requirement by HCEs	7,15,000

The Committee noted & accepted the calculation and appraised the Project.

The Proponent has informed about pollution load and details regarding management of Hazardous Waste. The Proponent informed that the basic raw material is Methanol which is stored in MS tanks below ground level and the product Formaldehyde is stored in SS tanks above the ground level. For the hazardous waste generated during the process ie the Spent catalyst is sent back to the supplier for reactivation. The Proponent also informed that effluents generated are being handled within the site in ETP of 5KLD capacity. The Proponent informed that the proposed area is categorized as Other polluted areas as CEPI score is 58.2 as per CPCB.

Proponent has collected baseline data for air, water, soil and noise and all parameters are found to be within permissible limits. The Proponent informed that all mitigative measures will be taken up to ensure that the parameters are maintained within permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and after discussion decided to recommend the proposal to SEIAA for issue of E.C. with following additional considerations,

1. To store the solvents/raw material as per the guidelines in safest manner possible.
2. Onsite & Offsite emergency plan to be approved by department of factories and boilers.
3. To provide separate RWH structures for roof top & hardscape runoff water.

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

**308.12 Proposed 195 TPD DRI Plant (Sponge Iron), 8.0 MW WHRB Power Plant, in 23.50 Acres (9.51 Ha) area at PBS Steel Plant, Halavarthi Village, Koppal Taluk, Koppal District by M/s. P. Balasubba Setty & Son) – Online Proposal No.SIA/KA/IND1/449508/2023 (SEIAA 31 IND 2023)**

About the project:

Sl. No.	Particulars	Information Provided By PP
1	Name of the project Proponent:	M/s. PBS Steel (Unit of P Balasubba Setty & Son)
2	Name & Location of the project:	Proposed 195 TPD DRI Plant (Sponge Iron), 8.0 MW WHRB Power Plant, in 23.50 Acres (9.51 Ha) area at Sy.Nos.48/5, 57/4+6, 57/1-A, 57/5+7, 62/1 & 62/7 of PBS Steel Plant, Halavarthi Village, Koppal Taluk, Koppal District
3	New /expansion/ modification /Product mix change:	New
4	Capacity	195 TPD DRI plant (Sponge Iron)& 8.0 MW WHRB power plant
5	Plot Area	23.50 Acres
6	Built Up Area	14.80Acres
7	Land use pattern Green Belt Coverage - % of total area (trees proposed)	Green Belt – 34.04 % & (Outside Plant Area –3.0 Acres) Trees Proposed – 8000 Nos

	Ground Cover area Kharab, Others.	Ground Cover Area – 23.50 Acres Others – 0.0			
8	Project Cost	99.56 Crores			
9	Type of Industries	Ferrous Industries			
10	Source of water -operational phase:	Ground Water			
11	Total Water Requirement (Domestic + Industrial) in KLD	478 KLD			
12	Fresh Water in KLD Recycled water in KLD	478 KLD 20 KLD			
13	Total waste water generation in KLD	20 KLD			
14	Total effluents generation in KLD	-			
15	Scheme of disposal of excess treated water	-			
16	Quantity of Tailings and its management	-			
17	ETP Capacity	-			
18	STP Capacity	10 KLD			
19	Types of waste Generation & its Disposal	<b>Solid Waste</b>	<b>Proposed (Ton)</b>	<b>Mode of Disposal</b>	
		Fly ash/ Bottom ash	48 TPD	Filling/Brick Manufacturers	
		Dolochar	19 TPD	Re used in process / Brick industry	
20	Solid Waste	Fly Ash/Bottom Ash & Dolochar			
21	Hazardous Waste and its handling	Used oil/waste oil– 0.85 TPA Disposal Mode: It will supply to the authorized recyclers			
22	CER Activities	<ul style="list-style-type: none"> <li>➤ Distribution of Books at Govt School – Halavarthi Village</li> <li>➤ Distribution of utensils and maintaining of kitchen of gvt school to facilitate Government's Mid-Day Meals program.</li> <li>➤ Providing Printer, LED TV, Computer &amp; Sports Accessories to Government School at Allanaganara village.</li> <li>➤ Appointment of Doctor for half yearly medical checkup to the nearby villages and employees.</li> <li>➤ Provided support to Sport Events held at Govt. Schools.</li> <li>➤ Plantation at Halavarthi – From Year 2024.</li> <li>➤ Developing the computer lab for Govt. High school, in Allanaganara village.</li> </ul>			
23	EMP Budget	Sl No	Particulars	No.	Cost (Lakh Rs.)
		I	<b>POLLUTION CONTROL</b>		



		1	Water sprayer (Mobile)	1	35.00
		2	Continuous water spraying system	1	5.00
		3	Cement masonry/garland drains all along the plant area	1500 m	30.00
		4	Drains along roads (both sides)	2400 m	12.00
		5	Retaining wall	400m	6.00
		6	Silt settling tank and Rain water harvesting tank	1 each	05.00
		7	ESR cost (0.5% of project cost)		49.78
			<b>Total</b>		<b>142.78</b>
EMP Construction. Operation.	AIR <ul style="list-style-type: none"> <li>➤ Asphaltting of the connecting road and maintenance.</li> <li>➤ Water sprinkling and dry fog type dust suppression system will be provided.</li> <li>➤ The greenbelt &amp; plantation will be developed in and around the plant.</li> </ul> NOISE (Construction Phase) <ul style="list-style-type: none"> <li>➤ Selection of low noise generation machinery / equipment.</li> <li>➤ All vehicles will silencers to minimize the noise</li> </ul> NOISE (Operation Phase) <ul style="list-style-type: none"> <li>➤ The most of the equipment shall be designed to comply with the stipulated limit of 85dB(A).</li> <li>➤ Vibration isolators will be provided to reduce vibration and noise wherever possible.</li> </ul> WATER (Construction Phase) <ul style="list-style-type: none"> <li>➤ Proper drainage of wastewater from the construction sites will be made, so that such waters do not form stagnant pools nor aggravate soil erosion.</li> <li>➤ Proper and effective Environmental Management Planning will be implemented to minimize the water usage.</li> </ul> WATER (Operation Phase)				

		<ul style="list-style-type: none"> <li>➤ The wastewater generated will be treated and reused in circuit again and again.</li> </ul> <p><b>SOIL (Construction Phase)</b></p> <ul style="list-style-type: none"> <li>➤ Water spraying shall be carried out on the roads inside the plant where vehicles carrying materials.</li> <li>➤ The materials brought for construction will be stored covered with plastic/tarpaulin sheets and all the discarded materials will be disposed of regularly and shall keep the place neatly.</li> </ul> <p><b>SOIL (Operation Phase)</b></p> <ul style="list-style-type: none"> <li>➤ Dust emissions sources due to vehicular movement will be sprayed by water.</li> <li>➤ Parking areas shall be identified. Unnecessary idling of vehicular movements shall be restricted. Vehicle speed shall be restricted to &lt;15 kmph.</li> </ul>
24	EMP DRI Plant	<p><b><u>ACTION PLAN FOR CONTROL OF STACK EMISSION MEASURES</u></b></p> <ul style="list-style-type: none"> <li>➤ The waste gas generated in DRI process will be re-circulated generate electricity through WHRB power plant.</li> <li>➤ Wet scrubbing and Electrostatic precipitator (ESP) will be part of environment management system to clean the gases from DRI.</li> <li>➤ Regular cleaning and maintenance of the air pollution control system will be carried out.</li> <li>➤ The height of the chimneys will be increased based on requirement.</li> <li>➤ Apart from road transport, the transportation of coal and other material will be preferably done by railway.</li> <li>➤ Coal will be stored in a closed shed.</li> </ul> <p><b><u>MEASURES FOR FUGITIVE EMISSION CONTROL</u></b></p> <ul style="list-style-type: none"> <li>➤ The vehicle carrying coal, pellets, and iron ore will be covered with tarpaulin.</li> <li>➤ All Internal roads will be cemented to prevent the fugitive dust emission due to vehicular movement.</li> <li>➤ Speed limit in plant premises will be in control.</li> </ul>




		<ul style="list-style-type: none"> <li>➤ All transportation vehicles carry/will carry a valid PUC (Pollution under Control) Certificate.</li> <li>➤ Proper traffic management is being/will be undertaken.</li> <li>➤ Proper servicing &amp; maintenance of vehicles is being/will be carried out.</li> <li>➤ Adequate greenbelt development.</li> <li>➤ Dust masks are being/will be provided to workers coming in direct contact of fugitive emissions.</li> <li>➤ Water Sprinkling/Dry fog type dust suppression system will be provided.</li> <li>➤ Adequate spares of critical components of dust and gas collection systems to ensure trouble - free operations.</li> <li>➤ Ambient air quality is being/will be regularly monitored to keep a check on the emissions of different pollutants.</li> </ul>
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The proposal is for establishing of sponge iron plant of 1x100TPD & 1x95TPD. ToR was issued by SEIAA on 02.06.2023 and public hearing was conducted on 05.10.2023. The Proponent informed that the proposed land in non forest land and had obtained land conversion for the proposed activity.

During the appraisal, the Committee sought details regarding handling of flue gasses, handling of waste heat generated in the process. The Proponent informed the Committee that in the proposed project they will be incorporating the environmentally sound technology for recycling flue gas by using advanced emission control techniques like scrubbers, electrostatic precipitators, or fabric filters to remove these pollutants before they are released into the atmosphere and for controlling fugitive emission, concreting the internal roads, adequate green belt development, regular sprinkling of water(dry fog dust suppressing system), regular monitoring of ambient air quality, transport vehicles considered with Pollution under control certificate, etc. would be undertaken. For waste heat Proponent informed that they have 8MW capacity of WHRB Power plant for capacitive consumption. The Committee informed the Proponent to take additional dust mitigation measures towards the village.

Further the Proponent informed about the control measures that would be taken for sponge iron plant such as action plan for control of stack emission measures and informed about the methods that would be implemented in the proposed project.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the statutory guidelines for the proposed construction/operation and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area to reduce dependency on groundwater.




The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To adhere to the compliance given in response to the opinion of public expressed during public hearing
2. To carry out three rows of plantation all along the boundary of the project and approach road to the industry and towards the village side.
3. Proponent agreed to retain the natural drains with buffers.
4. To provide STP within the site area.
5. To manage waste heat with proper mitigation measures.

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

**308.13 S.R.Patil Medical College Hospital (630 beds) & Research Centre Project at Badagandi Village, Bilagi Taluk, Bagalkot District by M/s. S R Patil Education Foundation– Online Proposal No.SIA/KA/INFRA2/449991/2023 (SEIAA 234 CON 2023)**

About the project:

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Project Proponent	Shri. S.R. Patil, Chairman, S R Patil Education Foundation at Post:Badagandi, Tq: Bilagi, Dist: Bagalkot-587116
2	Name & Location of the Project	M/s. S R Patil Medical College, Hospital (630 beds) & Research Centre at Sy.No: 220/1, 220/2, 221/1, 221/2, 222/2, 222/2B, 222/3 and 222/4 of Badagandi village, Bilagi Taluk, Bagalkot-587116
3	Type of Development	
	a. Residential Apartment /Villas /Row Houses / Vertical / Office Development / IT/ ITES/ Mall/ Hotel/ Hospital /other	Medical College, Hospital (630 beds) & Research Centre, Category 8(a) as per EIA Notification
	b. Residential Township/ Area Development Projects	No
	c. Zoning Classification	Converted land for educational institution
4	New/ Expansion/ Modification/ Renewal	New (Educational building to Medical Hospital and college)
5	Water Bodies/ Nalas in the vicinity of project site	One nala is adjacent (NW) to the project side
6	Plot Area (Sqm)	81,058.53 Sqm
7	Built Up area (Sqm)	53,888.85 Sqm
8	FAR <ul style="list-style-type: none"> <li>• Permissible</li> <li>• Proposed</li> </ul>	2.0 0.66
9	Building Configuration [ Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	The project consists of 12 Buildings <ul style="list-style-type: none"> <li>• Medical college - Basement, ground + 2 floors</li> <li>• Hospital - Basement, ground + 3 floors</li> <li>• Hostel - Ground + 3 floors</li> <li>• Staff Quarters -Ground floor + 3 floors</li> </ul>
10	Number of units/plots in case of Construction/Residential Township	Not Applicable

	/Area Development Projects	
11	Height Clearance	-
12	Project Cost (Rs. In Crores)	69 crores
13	Disposal of Demolition waste and or Excavated earth	Within the project site
14	Details of Land Use (Sqm)	
a.	Ground Coverage Area	26,181.90
b.	Kharab Land	-
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	26,749.31
d.	Internal Roads	12,645.13
e.	Paved area	
f.	Others Specify	15,482.19
g.	Parks and Open space in case of Residential Township/ Area Development Projects	Not applicable
h.	Total	81,058.53
15	WATER	
I.	Construction Phase	
a.	Source of water	Bore well and Krishna River water
b.	Quantity of water for Construction in KLD	36.5
c.	Quantity of water for Domestic Purpose in KLD	6.5
d.	Waste water generation in KLD	5.3
e.	Treatment facility proposed and scheme of disposal of treated water	Mobile STP
II.	Operational Phase	
a.	Total Requirement of Water in KLD	Fresh 358 Recycled 122 Total 480
b.	Source of water	Krishna River
c.	Waste water generation in KLD	430
d.	STP capacity & Area required	450 KLD
e.	Technology employed for Treatment	MBBR Technology
f.	Scheme of disposal of excess treated water if any	Complete consumption within the project area
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	20
17	Storm water management plan	The entire storm water from the site would be disposed off through suitable RCC Box drainage system to the rainwater recharge pits and the excess is diverted to external storm water drainage.

18	<b>WASTE MANAGEMENT</b>	
	<b>I. Construction Phase</b>	
a.	Quantity of Solid waste generation and mode of Disposal as per norms	15 kg/day
	<b>II. Operational Phase</b>	
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	557 kg/day
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	371 kg/day
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Used oil from DG sets category 5.1. About 500 Liters/Annum of spent oil is generated which is sent to authorized spent oil re-processor with manifest as per Hazardous Waste (Management and Handling Rules).
d.	Quantity of E waste generation and mode of Disposal as per norms	-
19	<b>POWER</b>	
a.	Total Power Requirement - Operational Phase	3395 KVA HESCOM
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	2 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	Buildings design for maximum natural ventilation, illumination and insulation ♦ Solar PVs on the terrace ♦ Use of better specification illuminators, activity specific luminaries and LED illuminators ♦ Separate lighting circuit feeders and distribution boards are proposed. ♦ Lighting controllers like dimmer and occupancy sensors ♦ Energy efficient motors and transformers. ♦ 21.81% of Energy savings
20	<b>PARKING</b>	
a.	Parking Requirement as per norms	150 ECS
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	'B' - very good
c.	Internal Road width (RoW)	9 meters
21	CER Activities	Sanitation, Health campaign's, and Education support to villagers
22	EMP <ul style="list-style-type: none"> <li>• Construction phase</li> <li>• Operation Phase</li> </ul>	Construction phase- Capital cost Rs.127 Lakhs and Rs.7.7 Lakhs recurring cost Operation phase- Capital cost Rs.39.6 Lakhs and Rs.10.4 Lakhs recurring cost

The proposal is for expansion and change in activity is an ongoing construction project from BUA of 46,728Sq m to 53,888.85Sq m in plot area of 81,948.83Sq m and to change the existing activity of educational institute to Hospital and College. The Proponent informed the Committee that initially they had planned for a residential school with BUA of 46,728Sq m in plot area 81,948.83Sq m and now due to the local requirement have revised the plan for construction of Hospital and Medical College. With regard to the existing construction, they have submitted approved plan for residential school from Panchayath Development Officer dated 14.04.2014 stated that and the earlier activity was exempted from EC upto BUA of 1.5Lakh Sq m, but now as the proposed acitivity comes within the ambit of EC as BUA is morethan 20,000Sq m, they have stopped the construction activity and have applied for EC and justified that the proposal does not attract violation of EIA Notification. The Proponent submitted architect certificate informing the BUA of constructed building as 26,688.11Sq m. The Committee noted the clarification.

The Committee during appraisal sought details regarding drain as per village map and provisions made for harvesting rain water in the proposed area. The Proponent informed the Committee that for harvesting rain water, the Proponent has proposed 480 cum capacity of sump for runoff from rooftop, landscape and paved areas in addition to 20 recharge pits within the site area.

The Proponent informed that they have made provisions to grow and maintain 350 trees in the project area and provide charging facilities to electrical vehicles in the proposed project area. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

Further the Committee informed the Proponent to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed. The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits and informed that all were within the limits.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide RWH tanks 480 cum and 20 recharge pits.
2. To undertake additional plantation in the early stage of construction.
3. Proponent agreed to source external water from KGWA approved water tankers.
4. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site
5. Proponent agreed to construct lead of drains till the natural drains/water body for handling excess water.

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



**308.14 Development of "Residential Apartment" Project at Horamavu Agara Village, K.R. Puram Hobli, Bengaluru East Taluk, Bengaluru Urban District by M/s. Navajyothi Shelters Pvt. Ltd. – Online Proposal No.SIA/KA/INFRA2/451154/2023 (SEIAA 240 CON 2023)**

About the Project

Sl. No	PARTICULARS	INFORMATION Provided by PP
1	Name & Address of the Project Proponent	Mr. K. Chandrakanth, Director M/s. Navajyothi Shelters Pvt. Ltd., No. 4/5, 10th Cross, 2nd Main, Akshaya Nagar, T.C. Palya Main Road, Ramamurthy nagar, Bengaluru – 560 016.
2	Name & Location of the Project	<b>Development of "Residential Apartment" Project at Sy. No. 41/2, Horamavu Agara Village, K.R. Puram Hobli, Bengaluru East Taluk, Bengaluru Urban District – 560 077.</b>
3	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Residential Apartment Category 8(a) as per EIA Notificaion 2006
b.	Residential Township/ Area Development Projects	NA
c.	Zoning Classification	As per the BDA RMP-2015, the proposed project site is designated as Public utilities Zone and land has been converted to Residential Purpose.
4	New/ <del>Expansion/ Modification/ Renewal</del>	New
5	Water Bodies/ Nalas in the vicinity of project site	There is a tertiary nala running on northwest corner and eastern side of the site boundary, to which we have left 15 m as a buffer.
6	Plot Area (Sqm)	18,437.29 Sqm
7	Built Up area (Sqm)	52,705.85Sqm
8	FAR • Permissible • Proposed	2.25 2.248
9	Building Configuration [ Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Proposed project comprising 388 No. of residential units distributed over Stilt+GF+3UFwith a maximum height of 14.40 m.
10	Number of units/plots in case of Construction/Residential Township /Area Development Projects	NA
11	Height Clearance	14.40 m (As per CCZM Map, the permissible height is 130 m and the height achieved for our proposed building is 14.40 m)
12	Project Cost (Rs. In Crores)	Rs. 140.65Crores.



13	Disposal of Demolition waster and or Excavated earth	Total Excavated earth quantity -9,212m <sup>3</sup> For Backfilling& site formation - 3,857m <sup>3</sup> For Landscaping - 5,355 m <sup>3</sup>
14	Details of Land Use (Sqm)	
a.	Ground Coverage Area	9,211.64Sqm
b.	Kharab Land	-
c.	Total Green Belt on Mother Earth for projects under 8(a) of the schedule of the EIA notification, 2006	6,693.85Sqm
d.	Internal Roads	1863.00Sqm
e.	Paved area	
f.	Others Specify	Service area - 668.80 Sqm
g.	Parks and Open space in case of Residential Township/ Area Development Projects	-
h.	Total	18,437.29Sqm
15	WATER	
I.	Construction Phase	
a.	Source of water	The domestic water requirement will be met by external suppliers and water requirement for construction purpose will be met by STP tertiary treated water.
b.	Quantity of water for Construction in KLD	20KLD
c.	Quantity of water for Domestic Purpose in KLD	7.0KLD
d.	Waste water generation in KLD	6.0 KLD
e.	Treatment facility proposed and scheme of disposal of treated water	Domestic sewage generated during construction phase will be treated in mobile STP, treated water will be reused for dust suppression/landscaping within the site.
II.	Operational Phase	
a.	Total Requirement of Water in KLD	Fresh 193KLD
		Flushing 96 KLD
		Total 289 KLD
b.	Source of water	BWSSB
c.	Wastewater generation in KLD	260KLD
d.	STP capacity and area required	STP Capacity -300 KLD and area- 280Sqm
e.	Technology employed for Treatment	Sequential Batch Reactor Technology
f.	Scheme of disposal of excess treated water if any	Excess 97KLD for construction works/Avenue plantation.
16	Infrastructure for Rain water harvesting	
a.	Capacity of sump tank to store Roof run off	350Cum
b.	No's of Ground water recharge pits	20 Nos.
17	Storm water management plan	Storm water sump of capacity 100 cum will be provided. Internal garland drains will be provided within the site in order to carry out the storm water into the recharge pits and will be

		managed within the site, excess runoff will be routed to the external storm water drain on southern side of the project site.												
18	<b>WASTE MANAGEMENT</b>													
I.	<b>Construction Phase</b>													
a.	Quantity of Solid waste generation and mode of Disposal as per norms	As there is no provision of labour colony, generation of domestic solid waste will be minimum and will be handed over to local vendors Construction debris -26 m <sup>3</sup> This will be reused within the site for road and pavement formation.												
II.	<b>Operational Phase</b>													
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	342kg/day This will be segregated and processed in proposed organic waste converter with of capacity within the site. OWC capacity 400 kg/day (area 38 Sqm)												
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	514kg/day Recyclable wastes will be handed over to authorized waste recyclers												
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	Waste Oil Generation:245L/Annum (0.49 L/ running) hour of DG 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 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	<b>POWER</b>													
a.	Total Power Requirement - Operational Phase	1472kVA												
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	500 kVA – 2 Nos.												
c.	Details of Fuel used for DG Set	209.52/hr												
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007	Cu wound transformer, Solar Lights, solar water heater, LED, high efficiency Pumps etc., The overall energy savings is around 28 %												
20	<b>PARKING</b>													
a.	Parking Requirement as per norms	427 ECS												
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	<table border="1"> <thead> <tr> <th>Road</th> <th>Towards</th> <th>Existing</th> <th>Changed</th> </tr> </thead> <tbody> <tr> <td>4<sup>th</sup> Main Road</td> <td>Kalkere - Agara main road</td> <td>A</td> <td>A</td> </tr> <tr> <td colspan="2">Kalkere Agara Main Road</td> <td>B</td> <td>B</td> </tr> </tbody> </table>	Road	Towards	Existing	Changed	4 <sup>th</sup> Main Road	Kalkere - Agara main road	A	A	Kalkere Agara Main Road		B	B
		Road	Towards	Existing	Changed									
4 <sup>th</sup> Main Road	Kalkere - Agara main road	A	A											
Kalkere Agara Main Road		B	B											
c.	Internal Road width (RoW)	12.05 m wide Approach road												
21	CER Activities Proposed	Construction of storm water drain -Rs. 20.0												

		Lakhs
22	EMP <ul style="list-style-type: none"> <li>• Construction phase</li> <li>• Operation Phase</li> </ul>	During Construction: Capital Investment – 12.20Lakh Construction – 82.15Lakh During Operation: Capital investment – 305.99Lakh Operation Investment – 20.0 Lakh/annum

The proposal is for construction of residential building project in an area earmarked for public utilities as per RMP of BDA, for which Proponent informed that they had obtained land conversion to residential from DC and change of land use to residential from BDA on 09.10.2017.

The Committee during appraisal sought details regarding drain as per village map, sensitive zone as per RMP of BDA and rain water harvesting measures in the proposed area. The Proponent informed the Committee that for the tertiary drain in eastern and northwestern sides, 15mtr buffer is proposed from the center of the drain. For sensitive zone, Proponent informed that they had obtained sensitive zone clearance from BDA on 28.11.2013. For harvesting rain water, the Proponent has informed the Committee that they had proposed storage tank of 350 cum capacity for runoff from rooftop, hardscape and landscape areas along with 20 recharge pits within the project area.

Further the Committee informed the Proponent to install smart water meters for individual units for conservation of water, to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed.

The Proponent agreed to grow 220 trees in the project site area. The Proponent has collected baseline data of air, water, soil and noise and informed that all were within the permissible limits. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines for the proposed construction and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

The Committee noted that the baseline parameters were found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide rain water storage tank of capacity 350 cum and 20 recharge pits.
2. To grow trees in the early stage before taking up of construction.
3. Proponent agreed to source external water from KGWA approved water tankers.

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

**308.15 Construction of additional residential blocks in existing ongoing construction project under Pradhan Mantri Awas Yojana (PMAY) Project at Iddya Village & Katipalla Village, Mangaluru Taluk, Daskhina Kannada District by Mangaluru City Corporation (MCC) – Online Proposal No.SIA/KA/INFRA2/449400/2023 (SEIAA 218 CON 2023)**

About the project:

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Project Proponent	Name: Mr Karthik Shetty K(Executive Engineer) Address: Mangaluru City Corporation (MCC) M.G Road, Lalbagh Mangalore – 575003
2	Name & Location of the Project	Name: Proposed Construction of additional residential blocks in existing ongoing construction project under Pradhan Mantri Awas Yojana (PMAY) Location: SY. No. 16/P, 13/8(P1), 13/41(P1), 13/41(P2) & 157 P at Iddya Village & 83/1P at Katipalla Village
3	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	New project of Category 8(a) Building and Construction Projects as per EIA Notification, 2006
b.	Residential Township/ Area Development Projects	Not applicable
c.	Zoning Classification	Residential Development
4	New/ Expansion/ Modification/ Renewal	Expansion
5	Water Bodies/ Nalas in the vicinity of project site	NA
6	Plot Area (Sqm)	24,282
7	Built Up area (Sqm)	27,196.34
8	FAR <ul style="list-style-type: none"> <li>• Permissible</li> <li>• Proposed</li> </ul>	2.90 1.20




Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP			
		Block Name	No. of Blocks	No. of Flats	Scope of Building
9	Building Configuration [Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Block A (Block No. 29 to 33, 34 & 35)	7	112	G + 3 Floor + Terrace
		Block A1 (Block No. 12 to 21)	10	160	G + 3 Floor + Terrace
		Block B (Block No. 22 to 28)	7	140	Lower Ground + Upper Ground + 3 Floors + Terrace
		Block C (Block No. 1 to 11)	11	242	Half Lower Ground 2 + Lower Ground + Upper Ground + 3 Floors + Terrace
		Block C1	2	44	Half Lower Ground 2 + Lower Ground 1 + Upper Ground + 3 Floors + Terrace
		<b>Total No. of Blocks</b>	<b>37</b>	<b>698</b>	
		10	Number of units/plots in case of Construction /Residential Township/Area Development Projects	698	
11	Height Clearance	Proposed Height: 11.90m Permissible Height: 150m			
12	Project Cost (Rs. In Crores)	Rs. 45.60 Cr			
13	Disposal of Demolition waste and or Excavated earth	No demolition activities will be carried out. Generated top soil will be reutilized for landscaping and construction of internal roads within the premises.			
14	Details of Land Use (Sqm)				
a.	Ground Coverage Area	5,807.15sq.m			
b.	Kharab Land	NA			
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedules of the EIA notification, 2006	5,900sq.m			
d.	Internal Roads	6,524.32sq.m			
e.	Paved area				
f.	Others Specify	3,453.83 sq.m (Area for road widening and Civic amenities)			
g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA			
h.	Total	24,282sq.m			

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP
15	<b>WATER</b>	
	<b>I. Construction Phase</b>	
a.	Source of water	An Open well at the site
b.	Quantity of water for Construction in KLD	~ 37
c.	Quantity of water for Domestic Purposes in KLD	2.25
d.	Wastewater generation in KLD	1.8
e.	Treatment facility proposed and scheme of disposal of treated water	Temporary sanitary facilities for construction labours will be provided. Wastewater will be disposed off in the leach pit (available at site).
	<b>II. Operational Phase</b>	
a.	Total Requirement of Water in KLD	Total Fresh water requirement of 407 kld
b.	Source of water	Mangalore Municipal Corporation (MCC)
c.	Wastewater generation in KLD	302 kld
d.	STP capacity	STP will not be constructed. Total waste water will be disposed off in the CSTP of 16.5 MLD capacity at Surathkal.
e.	Technology employed for Treatment	--
f.	Scheme of disposal of excess treated water if any	--
16	<b>Infrastructure for Rain water harvesting</b>	
a.	Capacity of sump tank to store Roof run off	--
b.	No's of Ground water recharge pits	8 No. of RWH pits
17	Storm water management plan	To avoid the loss of soil during monsoon, major construction activities will be avoided during rainy season. Water accumulated on the soil dump will be locally drained in the perimeter drain using small capacity pumps after particulate settlement. All potential contaminants such as lime, paints, whitewashes, shuttering lining, grease, oil, solvents, etc. will be decanted/ handled on the impervious PCC floor of the construction the warehouse. The warehouse will be closed type with no chance of rainwater meeting the material.
18	<b>WASTE MANAGEMENT</b>	
	<b>I. Construction Phase</b>	
a.	Quantity of Solid waste generation and mode of Disposal as per norms	<ul style="list-style-type: none"> <li>• Domestic Waste(5 kg/day) – Biodegradable waste will be composted and rest shall be sent to MSW site.</li> <li>• Demolition and Construction Waste –C&amp;D waste of 20.42 MT shall be segregated and reused within the Project siteto the extent possible and the rest will be sold to recyclers (Proper facility for storage of construction wastes will be made at Project site).</li> <li>• Plastic waste – to be sold to recyclers.</li> </ul>

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP												
II.	Operational Phase													
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	733 kg/day - After segregation, biodegradable waste shall be composted in an Organic Waste Converter (OWC) depending up on the requirement for horticulture and will be sent to Common MSW Management Facility												
b.	Quantity of Non-Biodegradable waste generation and mode of Disposal as per norms	165 kg/day - Recyclable waste shall be sold to recyclers. Non-biodegradable (108 kg/day) will be sent to Common Solid Waste Management Facility.												
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	Negligible. E waste will be stored at a designated place and sold to registered recyclers.												
19	POWER													
a.	Total Power Requirement - Operational Phase	848KvA from MESCOM												
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	--												
c.	Details of Fuel used for DG Set	--												
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy and compliance to Karnataka ECBC guidelines	<ul style="list-style-type: none"> <li>▪ Sound design of buildings for maximum natural ventilation, illumination and insolation.</li> <li>▪ Lighting controllers like dimmer and occupancy sensors are also proposed to conserve energy during non-occupancy.</li> <li>▪ Use of energy efficient LED lights.</li> </ul>												
20	PARKING													
a.	Parking Requirement as per norms	Requirement of Two Wheelers: 200 Nos. Provision of Two Wheelers: 717 Nos.												
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	C												
c.	Internal Road width (RoW)	6m & 9m												
21	CER Activities	--												
22	EMP <ul style="list-style-type: none"> <li>• Construction phase</li> </ul>	<b>Construction Phase:</b> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>EMP Aspect</th> <th>Approx. Cost (Rupees in Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Barricades/dust barriers all-round the site</td> <td>5.0</td> </tr> <tr> <td>2.</td> <td>Sprinkling of water (non-rainy season)</td> <td>4.0</td> </tr> <tr> <td>3.</td> <td>Labour Management - first aid centre, safety measures, sanitation, amenities (through Construction</td> <td>9.0</td> </tr> </tbody> </table>	Sr. No.	EMP Aspect	Approx. Cost (Rupees in Lakhs)	1.	Barricades/dust barriers all-round the site	5.0	2.	Sprinkling of water (non-rainy season)	4.0	3.	Labour Management - first aid centre, safety measures, sanitation, amenities (through Construction	9.0
Sr. No.	EMP Aspect	Approx. Cost (Rupees in Lakhs)												
1.	Barricades/dust barriers all-round the site	5.0												
2.	Sprinkling of water (non-rainy season)	4.0												
3.	Labour Management - first aid centre, safety measures, sanitation, amenities (through Construction	9.0												

Sl. No	PARTICULARS	INFORMATION PROVIDED BY PP			
		Contractors)			
	• Operation Phase	4.	Environmental Monitoring - Air, Water, Noise	3.5	
		<b>Total</b>		<b>21.5</b>	
		<b>Sr. No.</b>	<b>EMP Aspect</b>	<b>Approx. Budgeted Capital cost (In Lakh Rupees)</b>	<b>Approx. Budgeted Operating Co (In Lakh Rupees)</b>
		1.	Waste water recycling and Pipeline to CSTP	52.0	4.0
		2.	Greenbelt and other landscape development	22.0	2.5
		3.	Storm water drain and Rainwater Harvesting System	8.6	1.2
		4.	Environmental Monitoring & Certification	-	3.5
		5.	EHS Management Cell	3.0	-
		6.	Solid Waste Management	15.0	5.0
		7.	Fire-fighting measures	19.0	2.5
		<b>Total</b>		<b>119.6</b>	
		<b>18.7</b>			
		<b>Operation Phase:</b>			

The proposal is for expansion of BUA in an ongoing construction project from BUA of 19,573.55Sqm to 27,196.34Sqm in plot area of 24,282Sqm. The Proponent informed that for the ongoing construction they had obtained sanction for the plan from Mangalore City Corporation on 22.04.2021 for BUA of 19,573.55Sqm in plot area of 24,282Sqm and as per the letter of Assistant Executive Engineer, MCC dated 09.11.2023 submitted that BUA of 16,847.06 Sqm has been constructed and presently the Proponent has planned for expansion by adding additional BUA of 7,622.79Sqm and as the proposed BUA is crossing 20,000Sqm, they have applied for EC.

The Committee during appraisal sought details regarding provisions made for handling sewage from the proposed project and provisions made for harvesting rain water in the proposed area. The Proponent initially had informed that the sewage would be treated by the CETP of MCC located at a distance of 3.5km from the project site area but later submitted an undertaking and informed the Committee that they will install STP of 330KLD capacity within the proposed project before handing over to the occupants and submitted the flow chart, feasibility report and location details of STP. For harvesting rain water, the Proponent has proposed 08 recharge pits within the site area.

The Proponent informed that they have made provisions to grow and maintain 260trees in the project area. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.



Further the Committee informed the Proponent to install smart water meters for individual units for conservation of water, to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed. The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits and informed that all were within the limits.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide 08 recharge pits
2. To provide STP of 330KLD before handing over of project.
3. To undertake additional plantation in the early stage of construction.
4. Proponent agreed to source external water from KGWA approved water tankers.
5. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site
6. Proponent agreed to construct lead of drains till the natural drains/water body for handling excess water.

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

**308.16 Expansion of of Municipal Market Complex with MLCP Project at Kankanady Village Mangaluru Taluk, Dakshina Kannada District by Mangalore City Corporation – Online Proposal No.SIA/KA/INFRA2/450247/2023 (SEIAA 236 CON 2023)**

About the Project:

Sl. No	PARTICULARS	INFORMATION Provided by PP
1	Name & Address of the Project Proponent	Name: Mr. Naresh P. Shenoy(Executive Engineer) Address: Mangalore City Corporation MG Rd, Lalbagh, Mangaluru, Karnataka 575003
2	Name & Location of the Project	Name: Expansion of "Municipal Market Complex including MLCP" Location: At Sy. No 472P, 471P, 450/1A1AP, 450/1A2, 450/1B, 450/1C
3	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Municipal Market Complex with MLCP Category 8(a) as per EIA Notification 2006
b.	Residential Township/ Area Development Projects	Not applicable
c.	Zoning Classification	Commercial development
4	New/ Expansion/ Modification/ Renewal	Expansion

Sl. No	PARTICULARS	INFORMATION Provided by PP
5	Water Bodies/ Nalas in the vicinity of project site	NA
6	Plot Area (Sqm)	5,949.09
7	Built Up area (Sqm)	25,457.68
8	FAR <ul style="list-style-type: none"> <li>• Permissible</li> <li>• Proposed</li> </ul>	3.50 3.08
9	Building Configuration [ Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	Single Tower including MLCP with Lower Basement + Upper Basement + Lower Ground + Upper Ground + 6 Floors + Terrace
10	Number of units/plots in case of Construction/Residential Township /Area Development Projects	Not applicable
11	Height Clearance	Proposed Height: 26.80 m Permissible Height: 150 m
12	Project Cost (Rs. In Crores)	Rs. 48.25 Cr.
13	Disposal of Demolition waste and or Excavated earth	<ul style="list-style-type: none"> <li>• Excavated material will not be generated as Basements and upper floors are already constructed as per approved plan.</li> </ul>
14	Details of Land Use (Sqm)	
a.	Ground Coverage Area	2,778.41sq.m
b.	Kharab Land	NA
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedules of the EIA notification, 2006	633.57sq.m
d.	Internal Roads	2,537.11sq.m
e.	Paved area	
f.	Others Specify	--
g.	Parks and Open space in case of Residential Township/ Area Development Projects	NA
h.	Total	5,949.09sq.m
15	WATER	
I.	Construction Phase	
a.	Source of water	MCC Supply
b.	Quantity of water for Construction in KLD	37
c.	Quantity of water for Domestic Purposes in KLD	3.2
d.	Wastewater generation in KLD	2.6
e.	Treatment facility proposed and scheme of disposal of treated water	Temporary sanitary facilities for construction labours will be provided. Wastewater will be disposed off in the UGD line of MCC
II.	Operational Phase	
a.	Total Requirement of Water in KLD	Fresh 59

Sl. No	PARTICULARS	INFORMATION Provided by PP
		Recycled 70 Total 129
b.	Source of water	Mangalore Municipal Corporation (MCC)
c.	Wastewater generation in KLD	107kld
d.	STP capacity	SuTP of 95 kld will be constructed in place of STP
e.	Technology employed for Treatment	--
f.	Scheme of disposal of excess treated water if any	Zero discharge to UGD of MCC as 33.3 kld of waste water will be disposed off to CSTP
16	<b>Infrastructure for Rain water harvesting</b>	
a.	Capacity of sump tank to store Roof run off	A Sump tank of 60 cu.m
b.	No's of Ground water recharge pits	16 RWH pits + 1 Sump tank of 60cu.m (17 RWH Structures)
17	Storm water management plan	To avoid the loss of soil during monsoon, major construction activities will be avoided during rainy season. Water accumulated on the soil dump will be locally drained in the perimeter drain using small capacity pumps after particulate settlement. All potential contaminants such as lime, paints, whitewashes, shuttering lining, grease, oil, solvents, etc. will be decanted/ handled on the impervious PCC floor of the construction the warehouse. The warehouse will be closed type with no chance of rainwater meeting the material.
18	<b>WASTE MANAGEMENT</b>	
I.	<b>Construction Phase</b>	
a.	Quantity of Solid waste generation and mode of Disposal as per norms	<ul style="list-style-type: none"> <li>• Domestic Waste(7 kg/day) – Biodegradable waste will be composted and rest shall be sent to MSW site.</li> <li>• Demolition and ConstructionWaste –Approx. 1018MTC&amp;D waste shall be segregated and reused within the Project siteto the extent possible and the rest will be sold to recyclers (Proper facility for storage of construction wastes will be made at Project site).</li> <li>• Plastic waste – to be sold to recyclers.</li> </ul>
II.	<b>Operational Phase</b>	
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	886 kg/day - After segregation, biodegradable waste shall be composted in an Organic Waste Convertor (OWC) and Incineration
b.	Quantity of Non- Biodegradable waste generation and mode of Disposal as per norms	554 kg/day - Recyclable waste shall be sold to recyclers. Non-biodegradable (33.5 kg/day) will be sent to Common Solid Waste Management Facility.
c.	Quantity of Hazardous Waste generation and mode of Disposal as per norms	17.6 kg/day - Will be handed over to KSPCB approved vendors/Ward level waste collection center
d.	Quantity of E waste generation and	8.2 kg/day - E waste will be stored at a designated

Sl. No	PARTICULARS	INFORMATION Provided by PP																		
	mode of Disposal as per norms	place and sold to registered recyclers/Ward level waste collection center																		
19	<b>POWER</b>																			
a.	Total Power Requirement -Operational Phase	425 kVA from MESCOM																		
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	A DG set of 500 kVA																		
c.	Details of Fuel used for DG Set	HSD – 100 l/hr																		
d.	Energy conservation plan and Percentage of savings including plan for utilization of solar energy and compliance to Karnataka ECBC guidelines	<ul style="list-style-type: none"> <li>▪ Solar panels on the roof tops (Solar power generation: Approx. 68kW power).</li> <li>▪ Separate lighting circuit feeders and distribution boards are proposed from raw power circuits.</li> <li>▪ Lighting controllers like dimmer and occupancy sensors are also proposed to conserve energy during non-occupancy.</li> <li>▪ All higher rating motors are proposed with soft starters to save energy during starting and to achieve smooth starting of motor.</li> <li>▪ 30.21% of Energy will be saved by using LED equipment &amp; Solar Energy.</li> </ul>																		
20	<b>PARKING</b>																			
a.	Parking Requirement as per norms	505 ECS																		
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	E																		
c.	Internal Road width (RoW)	6m																		
21	CER Activities	NA																		
22	<b>EMP</b> <ul style="list-style-type: none"> <li>• Construction phase</li> </ul>	<b>Construction Phase</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sr. No.</th> <th>EMP Aspect</th> <th>Approx . Cost (Rupees in Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Barricades/dust barriers all-round the site</td> <td>10.0</td> </tr> <tr> <td>2.</td> <td>Sprinkling of water (non-rainy season)</td> <td>12.0</td> </tr> <tr> <td>3.</td> <td>Labour Management - first aid centre, safety measures, sanitation, amenities (through Construction Contractors)</td> <td>11.0</td> </tr> <tr> <td>4.</td> <td>Environmental Monitoring - Air, Water, Noise</td> <td>4.0</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total</b></td> <td><b>37.0</b></td> </tr> </tbody> </table>	Sr. No.	EMP Aspect	Approx . Cost (Rupees in Lakhs)	1.	Barricades/dust barriers all-round the site	10.0	2.	Sprinkling of water (non-rainy season)	12.0	3.	Labour Management - first aid centre, safety measures, sanitation, amenities (through Construction Contractors)	11.0	4.	Environmental Monitoring - Air, Water, Noise	4.0	<b>Total</b>		<b>37.0</b>
Sr. No.	EMP Aspect	Approx . Cost (Rupees in Lakhs)																		
1.	Barricades/dust barriers all-round the site	10.0																		
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<b>Total</b>		<b>37.0</b>																		
	<ul style="list-style-type: none"> <li>• Operation Phase</li> </ul>	<b>Operation Phase</b>																		

Sl. No	PARTICULARS	INFORMATION Provided by PP			
		Sr. No	EMP Aspect	Approx. Budgeted Capital cost (In Lakh Rupees)	Approx. Budgeted Operating Cost (In Lakh Rupees)
		1.	SuTP and Grey Water Recycling	40	15
		2.	Greenbelt and other landscape development	17	3.5
		3.	Storm water drain and Rainwater Harvesting System	80	7
		4.	Environmental Monitoring	-	4
		5.	EHS Management Cell	-	23
		6.	Solid Waste Management	50	13
		7.	Energy conservation	85	23
			<b>Total</b>	<b>256.0</b>	<b>88.5</b>

The proposal is for expansion of BUA in an ongoing construction project from BUA of 19,199.50Sqm to 25,457.60Sqm in plot area of 5,949Sqm. The Proponent informed that for the ongoing construction they had obtained sanction for the plan from Mangalore City Corporation on 13.01.2022 for BUA of 19,199.5Sqm in plot area of 5,949Sqm and as per the letter of Executive Engineer, MCC dated 09.11.2023 they have submitted that BUA of 18,117.57Sqm has been constructed and presently the Proponent has planned for expansion by adding additional BUA of 6,258.18Sqm and as the proposed BUA is crossing 20,000Sqm, they have applied for EC.

The Committee during appraisal sought details regarding provisions made for handling sewage from the proposed project, odour control measures and provisions made for harvesting rain water in the proposed area. The Proponent initially had informed that the sewage would be treated by the CETP of MCC through UGD from the project site area but later submitted an undertaking and informed the Committee that they will install STP of 50KLD capacity along with 95KLD SuTP in the proposed project before the operation phase. To control odour Proponent submitted the following Odour control measures,

- The Market place would have separate area for sale of vegetables, and non-vegetarian raw food items.
- To increase the freshness of the fish, and reduce odour, fish would be stored inside thermocol ice boxes, and on ice slabs. This shall also reduce smell of fish by lowering volatalisization of smelly compounds.
- High ambient moisture, low oxygen level and high temperatures increase bacterial decomposition rate of non-vegetarian raw food items. Artificial ventilation would be provided in the non-vegetarian raw food item marketing area by mechanical means.

- To have better fresh air circulation within the market areas, mechanical ventilation system would be adopted in the fish and meat market floor.
- The location of the meat, poultry and fish market is planned in such a way that proper ventilation for fresh airflow would be provided. There will be provision for ice, refrigeration and cold storage facilities in the Market Complex to prevent rotting of the items sold in the market. DG backups have been planned to assure uninterrupted power supply for refrigeration.
- Separate under drain system with slopes in different directions would be created to segregate the wash water from these market areas.
- The non-vegetarian raw food items would be stored, handled and dressed inside cemented basins with atleast 10 mm high margins, equipped with drain pipes fitted with valves, thus making the basin hose-able.
- Under drain systems would have heavy duty gully traps (with SS wire mesh) which shall filter out solids from wash water. The non-vegetarian solids will be taken to OWC for manuring.
- Large solid particles would be collected by brooms and blade wipers so that they do not go into the underdrain system.
- Water from the non-vegetarian raw food items marketing area would be taken to a now proposed 50 KLD secondary and tertiary treatment STP. As tertiary treatment, final deodorization and decolorization would be carried out by aggressive dosing of ozone, which shall eliminate colour and odour from the treated wastewater. This treated wastewater would be drained in the UGD system of MCC.

The Proponent submitted the following Treatment system for colour and odour removal from SuTP (Sullage Treatment Plant),

- Streams from vegetarian and non-vegetarian food articles would be segregated at source (collected from different areas of the Market building).
- Wash water streams from the non-vegetarian food articles would be taken to the now proposed 50 KLD STP. The secondary-tertiary STP would be equipped with a strong dose ozonator to treat any smell or colour.
- This treated water would be sent to the UGD system of MCC.
- Wash water streams from the vegetarian food items would be treated in a secondary-tertiary SuTP (Sullage Treatment Plant). This treated water would be conventionally treated, de-septicised by ozone treatment and will be reused in floor washing of the market.
- Solids from the both streams would be filtered out, as described in the section above, and would be treated in a OWC.

The Committee noted the clarification submitted by Proponent and informed the Proponent to abide by the details submitted above for odour control measures and treatment system in the proposed project, for which the Proponent agreed.

The Proponent informed that they have made provisions to grow and maintain 80 trees in the project area. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

Further the Committee informed the Proponent to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed. The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits and informed that all were within the limits.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide rain water harvesting tank of 60cum and 08 recharge pits
2. To install STP of 50KLD before operation phase
3. Proponent agreed to abide by the details submitted for odour control measures and treatment system in the proposed project
4. To undertake additional plantation in the early stage of construction.
5. Proponent agreed to source external water from KGWA approved water tankers.
6. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site

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

**308.17 Building Stone Quarry Project at Kudligi Village, Kudligi Taluk, Vijayanagara District (5-25 Acres) by Sri Pruthviraj B – Online Proposal No.SIA/KA/MIN/439303/2023 (SEIAA 364 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP												
1	Name & Address of the Projects Proponent	Sri Pruthviraj B												
2	Name & Location of the Project	Building Stone Quarry Project at Sy. No. 406 of Kudligi Village, Kudligi Taluk, Vijayanagara District (5-25 Acres) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 14° 55' 38.4758"</td> <td>E 76° 22' 43.4251"</td> </tr> <tr> <td>N 14° 55' 37.9831"</td> <td>E 76° 22' 45.9946"</td> </tr> <tr> <td>N 14° 55' 33.1808"</td> <td>E 76° 22' 46.1846"</td> </tr> <tr> <td>N 14° 55' 32.4681"</td> <td>E 76° 22' 41.0171"</td> </tr> <tr> <td>N 14° 55' 36.5157"</td> <td>E 76° 22' 41.8560"</td> </tr> </tbody> </table>	Latitude	Longitude	N 14° 55' 38.4758"	E 76° 22' 43.4251"	N 14° 55' 37.9831"	E 76° 22' 45.9946"	N 14° 55' 33.1808"	E 76° 22' 46.1846"	N 14° 55' 32.4681"	E 76° 22' 41.0171"	N 14° 55' 36.5157"	E 76° 22' 41.8560"
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N 14° 55' 32.4681"	E 76° 22' 41.0171"													
N 14° 55' 36.5157"	E 76° 22' 41.8560"													
3	Type Of Mineral	Building Stone Quarry												
4	New / Expansion / Modification / Renewal	New												
5	Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]	Government												
6	Area in Acres	5-25 Acres												
7	Annual Production (Metric Ton / Cum) Per Annum	71,429 Tones/ Annum (including waste)												
8	Project Cost (Rs. In Crores)	Rs. 0.60 Crores (Rs.60 Lakhs)												
9	Proved Quantity of mine/ Quarry-Cu.m / Ton	14,67,979Tones (including waste)												
10	Permitted Quantity Per Annum - Cu.m / Ton	70,000 Tones / Annum (excluding waste)												

11	<b>CER Activities:</b>	
	<b>Year</b>	<b>Corporate Environmental Responsibility (CER)</b>
	1st	The proponent proposes to distribute nursery plants at Kalvalyapura Village & Strengthening of approach road
	2nd	Rain water harvesting pits to GHPS at Kalvalyapura village
	3rd	Solar Power Panels In Government higher primary school at Kalvalyapura village
	4th	Avenue plantation either side of the approach road near Quarry site & Repair of road with drainages
	5th	The Rejuvenation of Govindagiri Pond
12	EMP Budget	Rs. 12.08 lakhs (Capital Cost) & Rs. 8.60 lakhs (Recurring cost)
13	Forest NOC	03.11.2020
14	Quarry plan	16.03.2023
15	Cluster certificate	25.07.2023
16	Notification	24.07.2023
17	Revenue	18.08.2020
18	DTF	03.06.2022

The Committee initially sought clarification with respect to the present site condition based on the KML submitted by Proponent. The Proponent informed the Committee that the proposed area is a Government land and old working are due to the earlier leases and after completion of lease period, the Government had auctioned the land and Proponent obtained land in auction and no mining has been carried out by Proponent and hence justified that the proposed project does not attract violation.

As per the cluster sketch there is no lease within 500mtr from the said lease and total area of the applied lease is 5-25 Acres and hence the project is categorized as B2.

There is an existing cart track road to a length of 700meters connecting lease area to the all-weather black topped road. The Committee informed that the production should be commenced after asphalt the approach road to the quarry and the road leading to crusher as per IRC standard norms and to grow trees all along the approach road, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 14,67,979tones(including waste) and estimated the life of mine to be 21 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 71,429tones/Annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry & road connecting the crusher as per IRC norms.
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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



**308.18 Building Stone Quarry Project at Hluvenahalli Village, Hosakote Taluk, Bangalore Rural District (2-00 Acres) by Smt. Bhanumathi – Online Proposal No.SIA/KA/MIN/449754/2023 (SEIAA 518 MIN 2023)**

**About the project:**

SL.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	Smt. Bhanumathi										
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No.107 of Hluvenahalli Village, Hosakote Taluk, Bangalore Rural District (2-00 Acres) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13°09'39.7536"</td> <td>E 77°55'14.7171"</td> </tr> <tr> <td>N 13°09'39.6520"</td> <td>E 77°55'16.5070"</td> </tr> <tr> <td>N 13°09'34.8021"</td> <td>E 77°55'15.7747"</td> </tr> <tr> <td>N 13°09'34.8486"</td> <td>E 77°55'14.0042"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13°09'39.7536"	E 77°55'14.7171"	N 13°09'39.6520"	E 77°55'16.5070"	N 13°09'34.8021"	E 77°55'15.7747"	N 13°09'34.8486"	E 77°55'14.0042"
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N 13°09'34.8021"	E 77°55'15.7747"											
N 13°09'34.8486"	E 77°55'14.0042"											
3	Type Of Mineral	Building Stone Quarry										
4	New / Expansion / Modification / Renewal	New										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Patta										
6	Area in Acres	2-00 Acres										
7	Annual Production (Metric Ton / Cum) Per Annum	12,041 Tones/ Annum (including waste)										
8	Project Cost (Rs. In Crores)	Rs. 0.25 Crores (Rs.25 Lakhs)										
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	7,36,615Tones (including waste)										
10	Permitted Quantity Per Annum - Cu.m / Ton	10,000 Tones / Annum (excluding waste)										
11	CER Activities: Propose take up 300 No. of additional plantation on either side of the approach road from quarry location to Hluvenahalli Village Road											
12	EMP Budget	Rs. 50 lakhs (Capital Cost) & Rs. 10 lakhs (Recurring cost)										
13	Forest NOC	22.06.2023										
14	Quarry plan	16.10.2023										
15	Cluster certificate	13.10.2023										
16	Notification	07.09.2023										
17	Revenue	27.06.2023										

The Committee initially sought clarification with respect to the present site condition based on the KML submitted by Proponent. The Proponent submitted to the Committee that in the S Report issued by DMG, there was an old lease with extent of 3-24 Acres with different owner and had operated till 07.11.2013 and the Proponent had obtained new notification on 07.09.2023 and had not carried out any mining activity till date and hence justified that the proposed project does not attract violation. The Committee noted the clarification.

As per the cluster sketch there are another 05 leases in a radius of 500 mtr from the said lease, out of which 03 lease is exempted from cluster, as it was granted prior to 09.09.2013 and the total area of the remaining leases including the applied lease is 8-27 Acres and hence the project is categorized as B2.

There is an existing cart track road to a length of 280 meters connecting lease area to the all-weather black topped road. The Committee informed that quarrying should be commenced after asphaltting the approach road to the quarry and road connecting the crusher as per IRC standard norms and should grow trees all along the approach road, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 7,36,615 tons (including waste) and estimated the life of mine to be 8 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 12,041 ton/ Annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per IRC norms.
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.
4. Proponent agreed to handle the waste generated by obtaining necessary permission.

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

**308.19 Laterite Stone Quarry Project at Badagaekkaru Village, Mangalore Taluk, Dakshina Kannada District (5.25 Acres) by M/s. Dharma Construction – Online Proposal No.SIA/KA/MIN/451815/2023 (SEIAA 539 MIN 2023)**

**About the project:**

SIN o	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Projects Proponent	M/s. Dharma Construction
2	Name & Location of the Project	Laterite Stone Quarry Project at Sy. No. 88/4 of Badagaekkaru Village, Mangalore Taluk, Dakshina Kannada District (5.25 Acres)

		Latitude	Longitude
		N13° 01' 55.2448"	E74° 53' 05.2998"
		N13° 01' 56.8201"	E74° 53' 02.8362"
		N13° 01' 59.9779"	E74° 53' 02.8061"
		N13° 02' 00.6460 "	E74° 53' 05.6150"
		N13° 02' 02.1641"	E74° 53' 06.9620"
		N13° 02' 01.8642"	E74° 53' 10.4578"
		N13° 02' 00.2019"	E74° 53' 09.5021"
		N13° 02' 00.9990"	E74° 53' 08.0782"
3	Type Of Mineral	Laterite Stone Quarry	
4	New / Expansion / Modification / Renewal	New	
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Patta	
6	Area in Acres	5.25 Acres	
7	Annual Production (Metric Ton / Cum) Per Annum	1,26,316 Tones/ Annum (including waste)	
8	Project Cost (Rs. In Crores)	Rs. 0.45 Crores (Rs.45 Lakhs)	
9	Proved Quantity of mine/ Quarry-Cu.m / Ton	7,42,978Tones (including waste)	
10	Permitted Quantity Per Annum - Cu.m / Ton	1,26,316 Tones / Annum (excluding waste)	
11	CER Activities: Propose take up 550 No. of additional plantation on either side of the approach road from quarry location to Badagaekkaru Village Road		
12	EMP Budget	Rs. 21.20 lakhs (Capital Cost) & Rs.7.20 lakhs (Recurring cost)	
13	Forest NOC	21.08.2023	
14	Quarry plan	07.11.2023	
15	Cluster certificate	07.11.2023	
16	Notification	03.11.2023	
17	Revenue	12.07.2023	

As per the cluster sketch there is no lease within 500mtr from the said lease and total area of the applied lease is 5.25 Acres and hence the project is categorized as B2.

There is an existing cart track road to a length of 720 meters connecting lease area to the all-weather black topped road. The Committee informed that the production should be commenced after asphalt the approach road to the quarry as per IRC standard norms and to grow trees all along the approach road, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 7,42,978 tones (including waste) and estimated the life of mine to be 6 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 1,26,316 tones/Annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry as per IRC norms.
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.20 Building Stone Quarry Project at Danavalli village, Kolar Taluk & District (1-15 Acres) by Sri Shivakumar V – Online Proposal No.SIA/KA/MIN/442129/2023 (SEIAA 516 MIN 2023)**

**About the project:**

SLNo	PARTICULARS	INFORMATION PROVIDED BY PP																
1	Name & Address of the Projects Proponent	Sri Shivakumar V																
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No. 02 of Danavalli village, Kolar Taluk & District (1-15 Acres) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13°09'34.51001"</td> <td>E 77°58'42.85998"</td> </tr> <tr> <td>N 13°9'33.18533"</td> <td>E 77°58'42.44568"</td> </tr> <tr> <td>N 13°9'32.8373"</td> <td>E 77°58'40.19436"</td> </tr> <tr> <td>N 13°9'33.01593"</td> <td>E 77°58'39.10108"</td> </tr> <tr> <td>N 13°9'34.20298"</td> <td>E 77°58'39.24650"</td> </tr> <tr> <td>N 13°9'34.19374"</td> <td>E 77°58'40.04223"</td> </tr> <tr> <td>N 13°9'34.95815"</td> <td>E 77°58'40.10595"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13°09'34.51001"	E 77°58'42.85998"	N 13°9'33.18533"	E 77°58'42.44568"	N 13°9'32.8373"	E 77°58'40.19436"	N 13°9'33.01593"	E 77°58'39.10108"	N 13°9'34.20298"	E 77°58'39.24650"	N 13°9'34.19374"	E 77°58'40.04223"	N 13°9'34.95815"	E 77°58'40.10595"
Latitude	Longitude																	
N 13°09'34.51001"	E 77°58'42.85998"																	
N 13°9'33.18533"	E 77°58'42.44568"																	
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N 13°9'34.19374"	E 77°58'40.04223"																	
N 13°9'34.95815"	E 77°58'40.10595"																	
3	Type Of Mineral	Building Stone Quarry																
4	New / Expansion / Modification / Renewal	Renewal																
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government																
6	Area in Acres	1-15 Acres																
7	Annual Production (Metric Ton / Cum) Per Annum	5,575 Tones/ Annum (including waste)																
8	Project Cost (Rs. In Crores)	Rs. 0.25 Crores (Rs.25 Lakhs)																
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	2,37,015 Tones (including waste)																
10	Permitted Quantity Per Annum - Cu.m / Ton	5018 Tones / Annum (excluding waste)																
11	CER Activities: Propose take up 120 No. of additional plantation on either side of the approach road from quarry location to Danavalli Village Road																	
12	EMP Budget	Rs. 8.93 lakhs (Capital Cost) & Rs. 2.27 lakhs (Recurring cost)																
13	Forest NOC	14.07.2017																
14	Quarry plan	07.08.2023																

15	Cluster certificate	07.08.2023
16	Notification	30.06.2023
17	Audit Report	15.07.2023

The Proponent informed the Committee that the proposal is for renewal of a lease which was granted earlier on 16.08.2003, with QL No. 418 which has been non-operational since 2007-08 till date and justified the same as per the audit report issued by DMG dated 15.07.2023.

For the existing leases, based on the applicability of cut off dates as per clause 3 of 233<sup>rd</sup> SEIAA meeting dated 18.04.2023, Proponent informed that they had not carried out any mining activity after 2005-06 till date and no environmental damage has been caused and requested the Committee not to consider the proposal under violation category.

The Committee after discussion, decided to consider the proposal based on the DMG audit report, informing that no mining activity had been carried out since 2007-08 till date, implying that there was no environmental damage/pollution and opined that as an environmental Committee, violation should be ascertained based on the damage caused to the environment and not on the procedural lapses and decided to request SEIAA to consider the deliberations of the Committee in this proposal, while handling violation cases in respect of existing lease, as there is no requirement for Damage Assessment, Remedial Plan and Community Augmentation Plan as per SOP issued by MoEF&CC, Dated:07.07.2021.

There is an existing cart track road to a length of 500 meters connecting lease area to the all-weather black topped road and the Committee informed that the quarrying operation needs to be commenced after strengthening the approach road to the quarry as per IRC standard norms and should grow trees all along the approach road in first year of operation, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 2,37,015 Tones (including waste) and estimated the life of mine to be co-terminus with lease period.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 5,575 tons / Annum (including waste), with following consideration,

1. Proponent agreed to strengthen the approach road to the quarry
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital

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

**308.21 Building Stone Quarry Project at Hasige Hobli village, Kunigal Taluk, Tumkur District (3-00 Acres) (vide QL No.685) by M/s. M.K.L. Stone Crushers – Online Proposal No.SIA/KA/MIN/448823/2023 (SEIAA 506 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	M/s. M.K.L. Stone Crushers										
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No.131 of Hasige Hobli village, Kunigal Taluk, Tumkur District (3-00 Acres) (vide QL No.685) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 12° 50' 32.2"</td> <td>E 77° 02' 49.0"</td> </tr> <tr> <td>N 12° 50' 32.1"</td> <td>E 77° 02' 52.4"</td> </tr> <tr> <td>N 12° 50' 28.3"</td> <td>E 77° 02' 52.4"</td> </tr> <tr> <td>N 12° 50' 28.3"</td> <td>E 77° 02' 48.9"</td> </tr> </tbody> </table>	Latitude	Longitude	N 12° 50' 32.2"	E 77° 02' 49.0"	N 12° 50' 32.1"	E 77° 02' 52.4"	N 12° 50' 28.3"	E 77° 02' 52.4"	N 12° 50' 28.3"	E 77° 02' 48.9"
Latitude	Longitude											
N 12° 50' 32.2"	E 77° 02' 49.0"											
N 12° 50' 32.1"	E 77° 02' 52.4"											
N 12° 50' 28.3"	E 77° 02' 52.4"											
N 12° 50' 28.3"	E 77° 02' 48.9"											
3	Type Of Mineral	Building Stone Quarry										
4	New / Expansion / Modification / Renewal	DEIAA TO SEIAA										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government										
6	Area in Acres	3-00 Acres										
7	Annual Production (Metric Ton / Cum) Per Annum	66,110 Tones/ Annum (including waste)										
8	Project Cost (Rs. In Crores)	Rs. 0.30 Crores (Rs.30 Lakhs)										
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	8,74,125Tones (including waste)										
10	Permitted Quantity Per Annum - Cu.m / Ton	66,110 Tones / Annum (including waste)										
11	CER Activities: Propose take up 300 No. of additional plantation on either side of the approach road from quarry location to Hasige Hobli Village Road and Govt. School											
12	EMP Budget	Rs. 11.75 lakhs (Capital Cost) & Rs. 4.11 lakhs (Recurring cost)										
13	Forest NOC	05.10.2016										
14	Quarry plan	30.07.2021										
15	Cluster certificate	18.10.2023										
16	Audit Report	07.10.2023										

The proposal is for appraisal as per MoEF&CC OM dated 28.04.2023, without change in production for which EC was issued earlier by DEIAA on 28.03.2017 and lease was granted on 12.02.2018 with effect from 26.08.2008 with QL No. 685. The Proponent submitted audit report till 2022-23 certified from DMG dated 07.10.2023.

There is an existing cart track road to a length of 580 meters connecting lease area to the all-weather black topped road. The Committee informed that the proposed expansion in quantity should be commenced after asphaltting the approach road to the quarry as per IRC standard norms and to grow trees all along the approach road, for which the Proponent agreed. Proponent submitted an undertaking for complying with the conditions stipulated by MoEF&CC OM dated: 28.04.2023.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 8,74,125 ton (including waste) and estimated the life of mine to be 14 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 66,110 tons / Annum (including waste) for one year, with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per norms before commencing
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the nearby Hospital.

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

**308.22 Building Stone Quarry Project at Thoranakambadahalli Village, Kolar Taluk & District (2-20 Acres) (QL.No. 238) by Sri D. R. Narayanaswamy – Online Proposal No.SIA/KA/MIN/446747/2023 (SEIAA 519 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP														
1	Name & Address of the Projects Proponent	Sri D. R. Narayanaswamy														
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No. 07 of Thoranakambadahalli Village, Kolar Taluk & District (2-20 Acres) (QL.No. 238) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13°9'42.2884"</td> <td>E 77°58'41.8046"</td> </tr> <tr> <td>N 13°9'42.1122"</td> <td>E 77°58'45.2995"</td> </tr> <tr> <td>N 13°9'41.9701"</td> <td>E 77°58'45.5572"</td> </tr> <tr> <td>N 13°9'39.5252"</td> <td>E 77°58'45.5948"</td> </tr> <tr> <td>N 13°9'39.5395"</td> <td>E 77°58'41.5425"</td> </tr> <tr> <td>N 13°9'41.0406"</td> <td>E 77°58'41.3764"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13°9'42.2884"	E 77°58'41.8046"	N 13°9'42.1122"	E 77°58'45.2995"	N 13°9'41.9701"	E 77°58'45.5572"	N 13°9'39.5252"	E 77°58'45.5948"	N 13°9'39.5395"	E 77°58'41.5425"	N 13°9'41.0406"	E 77°58'41.3764"
Latitude	Longitude															
N 13°9'42.2884"	E 77°58'41.8046"															
N 13°9'42.1122"	E 77°58'45.2995"															
N 13°9'41.9701"	E 77°58'45.5572"															
N 13°9'39.5252"	E 77°58'45.5948"															
N 13°9'39.5395"	E 77°58'41.5425"															
N 13°9'41.0406"	E 77°58'41.3764"															
3	Type Of Mineral	Building Stone Quarry														

4	New/Expansion/Modification/ Renewal	New
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government
6	Area in Acres	2-20 Acres
7	Annual Production (Metric Ton / Cum) Per Annum	5,641 Tones/ Annum (including waste)
8	Project Cost (Rs. In Crores)	Rs. 0.30 Crores (Rs.30 Lakhs)
9	Proved Quantity of mine/ Quarry-Cu.m / Ton	5,54,220 Tones (including waste)
10	Permitted Quantity Per Annum - Cu.m / Ton	5077 Tones / Annum (excluding waste)
11	CER Activities: Propose take up 250 No. of additional plantation on either side of the approach road from quarry location to Doddavallabi Village Road	
12	EMP Budget	Rs. 2.25 lakhs (Capital Cost) & Rs. 1.25 lakhs (Recurring cost)
13	Forest NOC	22.03.2012
14	Quarry plan	13.09.2023(Manual)
15	Cluster certificate	13.09.2023
17	Audit Report	19.08.2023

The Proponent informed the Committee that the proposal is for renewal of a lease which was granted earlier on 09.05.2000, with QL No. 238 which has been non-operational since 2006-07 till date and justified the same as per the audit report issued by DMG dated 19.08.2023.

For the existing leases, based on the applicability of cut off dates as per clause 3 of 233<sup>rd</sup> SEIAA meeting dated 18.04.2023, Proponent informed that they had not carried out any mining activity after 2006-07 till date and no environmental damage has been caused and requested the Committee not to consider the proposal under violation category.

The Committee after discussion, decided to consider the proposal based on the DMG audit report, informing that no mining activity had been carried out since 2006-07 till date, implying that there was no environmental damage/pollution and opined that as an environmental Committee, violation should be ascertained based on the damage caused to the environment and not on the procedural lapses and decided to request SEIAA to consider the deliberations of the Committee in this proposal, while handling violation cases in respect of existing lease, as there is no requirement for Damage Assessment, Remedial Plan and Community Augmentation Plan as per SOP issued by MoEF&CC, Dated:07.07.2021.

There is an existing cart track road to a length of 260 meters connecting lease area to the all-weather black topped road and the Committee informed that the quarrying operation needs to be commenced after strengthening the approach road to the quarry as per IRC standard norms and should grow trees all along the approach road in first year of operation, for which the Proponent agreed.

The Proponent has collected ~~baseline data~~ of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 5,54,220 Tones (including waste) and estimated the life of mine to be co-terminus with lease period.



The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 5,641 tons / Annum (including waste), with following consideration,

1. Proponent agreed to strengthen the approach road to the quarry
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital

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

**308.23 Ordinary Sand Quarry Project In close vicinity of Malaprabha River at Shirol Village, Nargund Taluk, Gadag District (5-20 Acres) by Sri. I. V. Kyamangoudar – Online Proposal No.SIA/KA/MIN/450337/2023 (SEIAA 532 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP												
1	Name & Address of the Projects Proponent	Sri. I. V. Kyamangoudar												
2	Name & Location of the Project	Ordinary Sand Quarry Project In close vicinity of Malaprabha River at Sy.Nos.11/1, 11/2, 11/3 of Shirol Village, Nargund Taluk, Gadag District (5-20 Acres) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 15°49'48.5"</td> <td>E 75°32'57.0"</td> </tr> <tr> <td>N 15°49'51.6"</td> <td>E 75°32'57.2"</td> </tr> <tr> <td>N 15°50'0.10"</td> <td>E 75°32'58.4"</td> </tr> <tr> <td>N 15°50'0.60"</td> <td>E 75°32'56.4"</td> </tr> <tr> <td>N 15°49'48.2"</td> <td>E 75°32'54.9"</td> </tr> </tbody> </table>	Latitude	Longitude	N 15°49'48.5"	E 75°32'57.0"	N 15°49'51.6"	E 75°32'57.2"	N 15°50'0.10"	E 75°32'58.4"	N 15°50'0.60"	E 75°32'56.4"	N 15°49'48.2"	E 75°32'54.9"
Latitude	Longitude													
N 15°49'48.5"	E 75°32'57.0"													
N 15°49'51.6"	E 75°32'57.2"													
N 15°50'0.10"	E 75°32'58.4"													
N 15°50'0.60"	E 75°32'56.4"													
N 15°49'48.2"	E 75°32'54.9"													
3	Type Of Mineral	Ordinary Sand Quarry												
4	New / Expansion / Modification / Renewal	New												
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Patta												
6	Area in Acres	5-20 Acres												
7	Annual Production (Metric Ton / Cum) Per Annum	19,733 Tonns/annum (including waste)												
8	Project Cost (Rs. In Crores)	Rs. 1.5 Crores (Rs. 10Lakhs)												
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	98,663 Tones (including waste)												
10	Permitted Quantity Per Annum - Cu.m / Ton	19,733 Tonns/annum (including waste)												
11	CER Activities: Propose take up 600 No. of additional plantation on either side of the approach road from quarry location to Shirol Village Road													
12	EMP Budget	Rs.17.37 Lakhs (Capital Cost) & Rs. 3.97 lakhs (Recurring cost)												
13	Forest NOC	21.11.2020												
14	Cluster certificate	26.10.2023												

15	Revenue NOC	09.11.2020
16	DTF	13.07.2021
17	App. Quarry Plan	31.08.2021
18	JIR	3.5 mtr
19	C & I Notification	10.12.2021

The proposal is for ordinary sand mining and as per the cluster sketch there are 04 lease in a radius of 500 mtr from the said lease out of which 3 lease with total extent 20-30 Acres has expired and the the total area of the remaning lease including the present leases is 11-18 Acres and hence the project is categorized as B2. Proponent informed that as per DMG site inspection letter, there is no river sand blocks in a radius of 5km from the proposed area.

There is an existing cart track road to a length of 200 meters connecting the lease area to the all-weather black topped road. The Committee informed that the mining operation should be commenced after asphaltting the approach road to the quarry as per IRC norms and to strictly implement mine closure plan effectively after mining operation and to grow trees all along the approach road during the first year of operation, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 98,663 Tons (including waste) and estimated the life of the quarry to be 5 years.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 19,733 ton/year (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry as per IRC norms
2. To implement mine closure plan effectively after mining operation by preserving top soil and reusing it for plantation after completing of mining operation.
3. To grow trees all along the approach road& buffer zone during the first year of peration and to carry out halla strengthening works.
4. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.24 Building Stone Quarry Project at Thoranakambadahalli village, Kolar Taluk & District (1-20 Acres) (QL.No. 232) by Sri D. R. Narayanaswamy - Online Proposal No.SIA/KA/MIN/446787/2023 (SEIAA 517 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP
1	Name & Address of the Projects Proponent	Sri D. R. Narayanaswamy
2	Name & Location of the Project	Building Stone Quarry Project at Sy.No. 07 of Thoranakambadahalli village, Kolar Taluk &

		District (1-20 Acres) (QL.No. 232)	
		Latitude	Longitude
		N 13°9'39.5395"	E 77°58'41.5425"
		N 13°9'39.5319"	E 77°58'43.6745"
		N 13°9'36.4688"	E 77°58'43.4865"
N 13°9'36.284"	E 77°58'41.4971"		
3	Type Of Mineral	Building Stone Quarry	
4	New / Expansion / Modification / Renewal	Renewal	
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government	
6	Area in Acres	1-20 Acres	
7	Annual Production (Metric Ton / Cum) Per Annum	5,562 Tonns/annum (including waste)	
8	Project Cost (Rs. In Crores)	Rs. 0.15 Crores (Rs. 15 Lakhs)	
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	3,08,302 Tones (including waste)	
10	Permitted Quantity Per Annum - Cu.m / Ton	5,006 Tonns/annum (including waste)	
11	CER Activities: Propose take up 150 No. of additional plantation on either side of the approach road from quarry location to Doddavallabi Village Road		
12	EMP Budget	Rs.7.70 Lakhs (Capital Cost) & Rs. 3.12 lakhs (Recurring cost)	
13	Forest NOC	22.03.2012	
14	Notification	13.09.2023	
15	Audit Report	19.08.2023	
16	App. Quarry Plan	13.09.2023(Manual)	
17	JIR	30.06.2020	

The Proponent informed the Committee that the proposal is for renewal of a lease which was granted earlier on 23.03.2000, with QL No. 232 which has been non-operational since 2005-06 till date and justified the same as per the audit report issued by DMG dated 19.08.2023.

For the existing leases, based on the applicability of cut off dates as per clause 3 of 233<sup>rd</sup> SEIAA meeting dated 18.04.2023, Proponent informed that they had not carried out any mining activity after 2005-06 till date and no environmental damage has been caused and requested the Committee not to consider the proposal under violation category.

The Committee after discussion, decided to consider the proposal based on the DMG audit report, informing that no mining activity had been carried out since 2005-06 till date, implying that there was no environmental damage/pollution and opined that as an environmental Committee, violation should be ascertained based on the damage caused to the environment and not on the procedural lapses and decided to request SEIAA to consider the deliberations of the Committee in this proposal, while handling violation cases in respect of existing lease, as there is no requirement for Damage Assessment, Remedial Plan and Community Augmentation Plan as per SOP issued by MoEF&CC, Dated:07.07.2021.

There is an existing cart track road to a length of 404 meters connecting lease area to the all-weather black topped road and the Committee informed that the quarrying operation needs to be commenced after strengthening the approach road to the quarry as per IRC standard norms and should grow trees all along the approach road in first year of operation, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 3,08,302 Tones (including waste) and estimated the life of mine to be co-terminus with lease period.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 5,562 tons / Annum (including waste), with following consideration,

1. Proponent agreed to strengthen the approach road to the quarry
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital

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

**308.25 Building Stone Quarry Project at Shirva village in Kapu Taluk, Udupi District (2-00 Acres) by Smt. Sukhalatha H. Shetty – Online Proposal No.SIA/KA/MIN/439927/2023 (SEIAA 451 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	Smt. Sukhalatha H. Shetty										
2	Name & Location of the Project	Building Stone Quarry Project at Sy. No. 24/P1 of Shirva village in Kapu Taluk, Udupi District (2-00 Acres) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13°15'08.9"</td> <td>E 74°48'44.7"</td> </tr> <tr> <td>N 13°15'09.6"</td> <td>E 74°48'41.1"</td> </tr> <tr> <td>N 13°15'07.9"</td> <td>E 74°48'39.6"</td> </tr> <tr> <td>N 13°15'06.5"</td> <td>E 74°48'41.5"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13°15'08.9"	E 74°48'44.7"	N 13°15'09.6"	E 74°48'41.1"	N 13°15'07.9"	E 74°48'39.6"	N 13°15'06.5"	E 74°48'41.5"
Latitude	Longitude											
N 13°15'08.9"	E 74°48'44.7"											
N 13°15'09.6"	E 74°48'41.1"											
N 13°15'07.9"	E 74°48'39.6"											
N 13°15'06.5"	E 74°48'41.5"											
3	Type Of Mineral	Building Stone Quarry										
4	New/Expansion/Modification/Renewal	Renewal										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government										
6	Area in Acres	2-00 Acres										

7	Annual Production (Metric Ton / Cum) Per Annum	10,309 Tones/ Annum (including waste)
8	Project Cost (Rs. In Crores)	Rs. 0.30 Crores (Rs.30 Lakhs)
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	1,49,909 Tones (including waste)
10	Permitted Quantity Per Annum - Cu.m / Ton	10,000 Tones / Annum (excluding waste)
11	CER Activities: Propose take up 200 No. of additional plantation on either side of the approach road from quarry location to Shirva Village Road	
12	EMP Budget	Rs. 11.75 lakhs (Capital Cost) & Rs. 2.99 lakhs (Recurring cost)
13	Forest NOC	09.07.2018
14	Quarry plan	03.06.2022
15	Cluster certificate	25.11.2021
16	Audit Report	13.11.2023
17	Notification	05.01.2009
18	Revenue	11.11.2019

The Proponent informed the Committee that the proposal is for renewal of a lease which was granted earlier on 10.09.2008, with QL No. 183 which has been non-operational since 2014-15 till date and justified the same as per the audit report issued by DMG dated 19.08.2023. The Proponent informed that the lease was transferred to Proponent as per DMG letter dated 08.11.2023.

For the existing leases, based on the applicability of cut off dates as per clause 3 of 233<sup>rd</sup> SEIAA meeting dated 18.04.2023, Proponent informed that they had not carried out any mining activity after 2014-15 till date and no environmental damage has been caused and requested the Committee not to consider the proposal under violation category.

The Committee after discussion, decided to consider the proposal based on the DMG audit report, informing that no mining activity had been carried out since 2014-15 till date, implying that there was no environmental damage/pollution and opined that as an environmental Committee, violation should be ascertained based on the damage caused to the environment and not on the procedural lapses and decided to request SEIAA to consider the deliberations of the Committee in this proposal, while handling violation cases in respect of existing lease, as there is no requirement for Damage Assessment, Remedial Plan and Community Augmentation Plan as per SOP issued by MoEF&CC, Dated:07.07.2021.

There is an existing cart track road to a length of 890 meters connecting lease area to the all-weather black topped road and the Committee informed that the quarrying operation needs to be commenced after strengthening the approach road to the quarry as per IRC standard norms and should grow trees all along the approach road in first year of operation, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 1,49,909 Tones (including waste) and estimated the life of mine to be 2 years

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 10,309 tons / Annum (including waste), with following consideration,

1. Proponent agreed to strengthen the approach road to the quarry
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital

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

**308.26 Pink Granite Quarry Project at Agalakera village in Koppal Taluk & District (11-12 Acres) by M/s. Sai Mohan Granites – Online Proposal No.SIA/KA/MIN/450372/2023 (SEIAA 531 MIN 2023)**

**About the project:**

	PARTICULARS	INFORMATION PROVIDED BY PP												
1	Name & Address of the Projects Proponent	M/s. Sai Mohan Granites												
2	Name & Location of the Project	Pink Granite Quarry Project at Sy. No. 57 (P) of Agalakera village in Koppal Taluk & District (11-12 Acres) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 15° 21' 19.39761"</td> <td>E 76° 19' 43.54452"</td> </tr> <tr> <td>N 15° 21' 11.41683"</td> <td>E 76° 19' 44.18408"</td> </tr> <tr> <td>N 15° 21' 12.71448"</td> <td>E 76° 19' 36.98363"</td> </tr> <tr> <td>N 15° 21' 16.10376"</td> <td>E 76° 19' 35.86990"</td> </tr> <tr> <td>N 15° 21' 19.67142"</td> <td>E 76° 19' 40.08866"</td> </tr> </tbody> </table>	Latitude	Longitude	N 15° 21' 19.39761"	E 76° 19' 43.54452"	N 15° 21' 11.41683"	E 76° 19' 44.18408"	N 15° 21' 12.71448"	E 76° 19' 36.98363"	N 15° 21' 16.10376"	E 76° 19' 35.86990"	N 15° 21' 19.67142"	E 76° 19' 40.08866"
Latitude	Longitude													
N 15° 21' 19.39761"	E 76° 19' 43.54452"													
N 15° 21' 11.41683"	E 76° 19' 44.18408"													
N 15° 21' 12.71448"	E 76° 19' 36.98363"													
N 15° 21' 16.10376"	E 76° 19' 35.86990"													
N 15° 21' 19.67142"	E 76° 19' 40.08866"													
3	Type Of Mineral	Pink Granite Quarry Project												
4	New/Expansion/Modification/Renewal	New												
5	Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]	Patta												
6	Area in Acres	11-12 Acres												
7	Annual Production (Metric Ton / Cum) Per Annum	21,000 Cum/ Annum (including waste)												
8	Project Cost (Rs. In Crores)	Rs.0.90 Crores (Rs.90 Lakhs)												
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	21,29,315 Cum (including waste)												
10	Permitted Quantity Per Annum - Cu.m / Ton	6,300 Cum/ Annum (recovery)												
11	CER Activities: Propose to construct WBM road from quarry location to Agalakera village road.													
12	EMP Budget	Rs.29.90 Lakhs (Capital Cost) & Rs. 11.10 Lakhs (Recurring cost)												
13	Quarry plan	16.10.2023												
14	Cluster certificate	19.10.2023												
15	Forest NoC	25.06.2019												
16	DTF	20.04.2023												
17	Revenue	19.04.2021												

As per the cluster sketch there is no lease within 500mtr from the said lease and total area of the applied lease is 11-12 Acres and hence the project is categorized as B2.

There is an existing cart track road to a length of 1600meters connecting lease area to the all-weather black topped road. The Committee informed that the production should be commenced after asphalt the approach road to the quarry as per IRC standard norms and to grow trees all along the approach road, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 21,29,315cum(including waste) and estimated the life of mine to be co-terminus with lease period.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 21,000 Cum /Annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry as per IRC norms.
2. To grow trees all along the approach road during the first year of operation.
3. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.27 River Sand Quarry Project In River Sand Block No.13, in Haladi River Bed, over an extent of 3.70 Acres situated in Molahalli Village, Kundapura Taluk & Udupi District by Sri J. K. Mahabal Naik – Online Proposal No.SIA/KA/MIN/449807/2023 (SEIAA 520 MIN 2023)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP														
1	Name & Address of the Projects Proponent	Sri J. K. Mahabal Naik														
2	Name & Location of the Project	River Sand Quarry Project In River Sand Block No.13, in Haladi River Bed, over an extent of 3.70 Acres situated in Sy.No.253 of Molahalli Village, Kundapura Taluk & Udupi District <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13° 36' 31.47"</td> <td>E 74° 50' 28.48"</td> </tr> <tr> <td>N 13° 36' 38.11"</td> <td>E 74° 50' 21.78"</td> </tr> <tr> <td>N 13° 36' 39.16"</td> <td>E 74° 50' 22.28"</td> </tr> <tr> <td>N 13° 36' 32.30"</td> <td>E 74° 50' 29.15"</td> </tr> <tr> <td>N 13° 36' 25.60"</td> <td>E 74° 50' 31.70"</td> </tr> <tr> <td>N 13° 36' 25.35"</td> <td>E 74° 50' 31.09"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13° 36' 31.47"	E 74° 50' 28.48"	N 13° 36' 38.11"	E 74° 50' 21.78"	N 13° 36' 39.16"	E 74° 50' 22.28"	N 13° 36' 32.30"	E 74° 50' 29.15"	N 13° 36' 25.60"	E 74° 50' 31.70"	N 13° 36' 25.35"	E 74° 50' 31.09"
Latitude	Longitude															
N 13° 36' 31.47"	E 74° 50' 28.48"															
N 13° 36' 38.11"	E 74° 50' 21.78"															
N 13° 36' 39.16"	E 74° 50' 22.28"															
N 13° 36' 32.30"	E 74° 50' 29.15"															
N 13° 36' 25.60"	E 74° 50' 31.70"															
N 13° 36' 25.35"	E 74° 50' 31.09"															
3	Type Of Mineral	Ordinary Sand Quarry														
4	New / Expansion / Modification / Renewal	New														

5	Type of Land [Forest, Government Revenue, Gomal, Private/Patta, Other]	Government
6	Area in Acres	3.70 Acres
7	Annual Production (Metric Ton / Cum) Per Annum	25,753 Tonns/annum (including waste)
8	Project Cost (Rs. In Crores)	Rs. 0.30 Crores (Rs. 30 Lakhs)
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	25,753 Tones (including waste)
10	Permitted Quantity Per Annum - Cu.m / Ton	24,465 Tonns/annum (including waste)
11	CER Activities: Propose take up 500 No. of additional plantation on either side of the approachroad from quarry location to Molahalli Village Road	
12	EMP Budget	Rs.17.70 Lakhs (Capital Cost) & Rs. 5.20 lakhs (Recurring cost)
13	Forest NOC	11.10.2023
14	Notification	10.01.2023
15	Revenue	10.10.2023
16	App. Quarry Plan	18.10.2023
17	DTF	24.03.2023
18	Cluster Certificate	18.10.2023
19	Irrigation	31.05.2023
20	JIR	3 mtr
21	LoI	24.03.2023

The proposal is for River Bed Sand Mining. The Committee sought clarification from Proponent regarding method of mining proposed in compliance to Hon'ble NGT (SZ) Directions in O.A 194/2020 dated 15.09.2022 i.e not to use any machinery for excavation of sand, for which the Proponent informed that they have proposed manual method of mining.

There is an existing cart track road to a length of 245 meters connecting the lease area to the all-weather black topped road and the Committee informed that the mining operation should be commenced after concreting the approach road as per standard norms and to grow trees all along the approach road and in the banks of the river, to strictly implement bund protection works, dust mitigation measures and not to use any machinery for excavation of sand as per Hon'ble NGT (SZ) Directions in O.A 194/2020 dated 15.09.2022 and also not to carry out in-stream mining, to which the Proponent agreed. Proponent informed the Committee that they had obtained DMG approved replenishment report for the proposed sand quarry considering the catchment area and rainfall details. Further the Committee sought clarification regarding dry weather flow, for which the Proponent submitted photos of May 2023 showing availability of sand and dry weather flow and informed the Committee that mining operations would be carried out only in dry weather conditions.

The Proponent has collected baseline data of air, water, soil and noise and all are within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits. In the proposed project, the Proponent agreed to follow the conditions stipulated in sustainable sand mining guidelines 2016 and Enforcement & Monitoring guidelines 2020.






The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 25,753 tonns per year (including waste) and estimated the life of the quarry to be 5 years with due replenishment every year.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 25,753 tons per year (including waste) after due replenishment every year, with following consideration,

1. Proponent agreed to concrete the approach road to the quarry as per standard norms
2. To implement mine closure plan effectively after mining operation
3. To grow trees all along the approach road during the first year of operation.
4. Mining should be carried out after due replenishment every year
5. Proponent agreed to abide by the Sustainable sand mining guidelines 2016 and Enforcement & Monitoring Guidelines 2020
6. To comply with the Hon'ble NGT Directions in O.A 194/2020 dated 15.09.2022 and for any violation against the Directions of Hon'ble NGT Directions in O.A 194/2020 dated 15.09.2022, the Proponent would be held responsible.
7. To follow Labour laws and Mines Act in the proposed project.
8. To carry out bank stabilization works.

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

**308.28 Expansion of Building Stone Quarry Project at Haralur Byrasandra Village, Tumkur Taluk & District (3-10 Acres) (vide QL No.758) by M/s Kallelshwara Stone Crusher – Online Proposal No.SIA/KA/MIN/409752/2022 (SEIAA 541 MIN 2022)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	M/s. Kallelshwara Stone Crusher										
2	Name & Location of the Project	Expansion of Building Stone Quarry Project at Sy. No.68(P) of Haralur Byrasandra Village, Tumkur Taluk & District (3-10 Acres) (vide QL No.758)										
		<table border="1"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13°15'52.8"</td> <td>E 77°08'59.0"</td> </tr> <tr> <td>N 13°15'53.5"</td> <td>E 77°08'03.6"</td> </tr> <tr> <td>N 13°15'51.4"</td> <td>E 77°08'04.0"</td> </tr> <tr> <td>N 13°15'49.1"</td> <td>E 77°08'59.0"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13°15'52.8"	E 77°08'59.0"	N 13°15'53.5"	E 77°08'03.6"	N 13°15'51.4"	E 77°08'04.0"	N 13°15'49.1"	E 77°08'59.0"
Latitude	Longitude											
N 13°15'52.8"	E 77°08'59.0"											
N 13°15'53.5"	E 77°08'03.6"											
N 13°15'51.4"	E 77°08'04.0"											
N 13°15'49.1"	E 77°08'59.0"											
3	Type Of Mineral	Building Stone Quarry										
4	New/Expansion/Modification/Renewal	Expansion										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government										

6	Area in Acres	3-10 Acres
7	Annual Production (Metric Ton / Cum) Per Annum	1,02,041 Tones/ Annum (including waste)
8	Project Cost (Rs. In Crores)	Rs. 0.35 Crores (Rs.35 Lakhs)
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	17,02,978 Tones (including waste)
10	Permitted Quantity Per Annum - Cu.m / Ton	1,00,000 Tones / Annum (excluding waste)
11	CER Activities: To grow 600 trees along the approach road and to provide infrastructure facilities to nearby Govt. School/Hospital	
12	EMP Budget	Rs. 40 lakhs (Capital Cost) & Rs. 10 lakhs (Recurring cost)
13	Forest NOC	30.07.2016
14	Quarry plan	24.11.2022
15	Cluster certificate	05.12.2022
16	CCR	10.11.2023
17	Audit Report	11.08.2022 and separate report of 2022-23

The proposal is for expansion for which EC was issued earlier by DEIAA on 23.01.2018 and lease was in effect from 12.11.2010 with QL No. 758. The Proponent submitted CCR from KSPCB dated 10.11.2023 and audit report till 2022-23 certified from DMG. The Proponent had obtained transfer of EC from SEIAA on 13.10.2021.

There is an existing cart track road to a length of 900 meters connecting lease area to the all-weather black topped road. The Committee informed that the proposed expansion in quantity should be commenced after asphaltting the approach road to the quarry & the road connecting the crusher as per IRC standard norms and to grow trees all along the approach road, for which the Proponent agreed. Proponent submitted an undertaking for complying with the conditions stipulated by MoEF&CC OM dated: 28.04.2023.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 17,02,978 tonnes (including waste) and estimated the life of mine to be coterminous with lease period.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 1,02,041 tonnes / Annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per norms before commencing expansion in quantity
2. To grow trees all along the approach road and towards habitation during the first year of operation.
3. To comply with the observation of KSPCB in CCR.
4. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.29 Expansion of Building Stone Quarry Project at Haralur Byrasandra Village, Tumkur Taluk & District (1-00 Acre) (vide QL No.755) by M/s. Kalleshwara Stone Crusher – Online Proposal No.SIA/KA/MIN/409731/2022 (SEIAA 539 MIN 2022)**

**About the project:**

Sl.No	PARTICULARS	INFORMATION PROVIDED BY PP										
1	Name & Address of the Projects Proponent	M/s. Kalleshwara Stone Crusher										
2	Name & Location of the Project	Expansion of Building Stone Quarry Project at Sy.No.68(P) of Haralur Byrasandra Village, Tumkur Taluk & District (1-00 Acre) (vide QL No.755) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>N 13°16'00.7"</td> <td>E 77°08'57.3"</td> </tr> <tr> <td>N 13°16'00.7"</td> <td>E 77°08'59.9"</td> </tr> <tr> <td>N 13°16'59.1"</td> <td>E 77°08'00.0"</td> </tr> <tr> <td>N 13°16'59.1"</td> <td>E 77°08'57.3"</td> </tr> </tbody> </table>	Latitude	Longitude	N 13°16'00.7"	E 77°08'57.3"	N 13°16'00.7"	E 77°08'59.9"	N 13°16'59.1"	E 77°08'00.0"	N 13°16'59.1"	E 77°08'57.3"
Latitude	Longitude											
N 13°16'00.7"	E 77°08'57.3"											
N 13°16'00.7"	E 77°08'59.9"											
N 13°16'59.1"	E 77°08'00.0"											
N 13°16'59.1"	E 77°08'57.3"											
3	Type Of Mineral	Building Stone Quarry										
4	New / Expansion / Modification / Renewal	Expansion										
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government										
6	Area in Acres	1-00 Acre										
7	Annual Production (Metric Ton / Cum) Per Annum	45,918 Tones/ Annum (including waste)										
8	Project Cost (Rs. In Crores)	Rs. 0.25 Crores (Rs.25 Lakhs)										
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	4,77,927Tones (including waste)										
10	Permitted Quantity Per Annum - Cu.m / Ton	45,000 Tones / Annum (excluding waste)										
11	CER Activities: To grow 150 trees along the approach road and to provide infrastructure facilities to nearby Govt. School/Hospital											
12	EMP Budget	Rs. 20 lakhs (Capital Cost) & Rs. 5 lakhs (Recurring cost)										
13	Forest NOC	30.07.2016										
14	Quarry plan	24.11.2022										
15	Cluster certificate	05.12.2022										
16	CCR	10.11.2023										
17	Audit Report	11.08.2022 and separated report for 2022-23										

The proposal is for expansion for which EC was issued earlier by DEIAA on 23.01.2018 and lease was in effect from 29.07.2010 with QL No. 755. The Proponent submitted CCR from KSPCB dated 10.11.2023 and audit report till 2022-23 certified from DMG. The Proponent had obtained transfer of EC from SEIAA on 13.10.2021.

There is an existing cart track road to a length of 450 meters connecting lease area to the all-weather black topped road. The Committee informed that the proposed expansion in quantity should be commenced after asphaltting the approach road to the quarry & the road connecting the crusher as per IRC standard norms and to grow trees all along the approach road, for which the Proponent agreed. Proponent submitted an undertaking for complying with the conditions stipulated by MoEF&CC OM dated: 28.04.2023.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan with proved mineable reserve of 4,77,927 tonns(including waste) and estimated the life of mine to be coterminous with lease period.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 45,918 tonns / Annum (including waste), with following consideration,

1. Proponent agreed to asphalt the approach road to the quarry and road connecting the crusher as per norms before commencing expansion in quantity
2. To grow trees all along the approach road and towards habitation during the first year of operation.
3. To comply with the observation of KSPCB in CCR.
4. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital.

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

**308.30 Construction of Hotel Project at Sy.No.8, 108 to 112 of Bengaluru Aerospace Park industrial area Unachur village, Jala Hobli, Bengaluru North Yelahanka Taluk, Bangalore Urban District by M/s. Tri Star Propmart Pvt. Ltd. – Online Proposal No.SIA/KA/MIS/306409/2023 (SEIAA 113 CON 2023)**

The Proponent had submitted application for modification of EC, for which the SEIAA had issued EC on 30.08.2023 for BUA of 32,483.36Sqm in plot area of 8,094.25Sqm and the configuration mentioned as G+7UF.

The Proponent had mentioned that due to typographical error they had mentioned the configuration as G+7UF instead of 2B+G+6UF and had requested to issue modification of EC for the change in configuration to 2B+G+6UF and had informed that presently no construction activities had started in the site.

The Committee noted ~~the changes~~ and ~~after~~ discussion decided to recommend the proposal to SEIAA for modification of EC for change in configuration to 2B+G+6UF with all other EC conditions remaining the same along with following consideration,

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



**With Permission of the Chair**

**308.31 Grey Granite Quarry Project at Sy.No.618(P) of Mudugal Village, Lingasugur Taluk, Raichur District (32.38 Ha) (Q.L.No.5956) by M/s. Karnataka State Minerals Corporation Ltd. – Online Proposal No.SIA/KA/MIN/436378/2023 (SEIAA 146 MIN 2021)**

**About the project:**

Sl.No.	PARTICULARS	INFORMATION PROVIDED BY PP																																																														
1	Name & Address of the Projects Proponent	M/s. Karnataka State Minerals Corporation Ltd.																																																														
2	Name & Location of the Project	<p>Grey Granite Quarry Project at Sy.No.618(P) of Mudugal Village, Lingasugur Taluk, Raichur District (32.38 Ha) (Q.L.No.5956)</p> <table border="1"> <tbody> <tr><td>15°59'36.30646"N</td><td>76° 28'13.42370"E</td></tr> <tr><td>15°59'39.92986"N</td><td>76° 28'04.87561"E</td></tr> <tr><td>15°59'36.56414"N</td><td>76° 28'03.34912"E</td></tr> <tr><td>15°59'35.00425"N</td><td>76° 28'09.17638"E</td></tr> <tr><td>15°59'32.51563"N</td><td>76° 28'11.80628"E</td></tr> <tr><td>15°59'30.51169"N</td><td>76° 28'09.94223"E</td></tr> <tr><td>15°59'32.51510"N</td><td>76° 28'07.35595"E</td></tr> <tr><td>15°59'32.86660"N</td><td>76° 28'02.91813"E</td></tr> <tr><td>15°59'30.09774"N</td><td>76° 28'02.29913"E</td></tr> <tr><td>15°59'28.61088"N</td><td>76° 28'06.71756"E</td></tr> <tr><td>15°59'28.63732"N</td><td>76° 28'10.10681"E</td></tr> <tr><td>15°59'23.88395"N</td><td>76° 28'10.55176"E</td></tr> <tr><td>15°59'18.78419"N</td><td>76° 28'11.60769"E</td></tr> <tr><td>15°59'18.50010"N</td><td>76° 28'08.43870"E</td></tr> <tr><td>15°59'23.31154"N</td><td>76° 28'06.99829"E</td></tr> <tr><td>15°59'24.9000"N</td><td>76° 28'06.6000"E</td></tr> <tr><td>15°59'24.4000"N</td><td>76° 28'06.5000"E</td></tr> <tr><td>15°59'20.27519"N</td><td>76° 28'06.37074"E</td></tr> <tr><td>15°59'20.11097"N</td><td>76° 28'01.97092"E</td></tr> <tr><td>15°59'26.0000"N</td><td>76° 28'03.3000"E</td></tr> <tr><td>15°59'26.64945"N</td><td>76° 28'01.73814"E</td></tr> <tr><td>15°59'21.50048"N</td><td>76° 28'00.72404"E</td></tr> <tr><td>15°59'12.28998"N</td><td>76° 28'05.67214"E</td></tr> <tr><td>15°59'05.81299"N</td><td>76° 28'00.03622"E</td></tr> <tr><td>15°59'08.85006"N</td><td>76° 28'13.57567"E</td></tr> <tr><td>15°59'10.39758"N</td><td>76° 28'19.78330"E</td></tr> <tr><td>15°59'15.71582"N</td><td>76° 28'19.22424"E</td></tr> <tr><td>15°59'27.69802"N</td><td>76° 28'18.83882"E</td></tr> <tr><td>15°59'29.38741"N</td><td>76° 28'19.22424"E</td></tr> <tr><td>15°59'30.28432"N</td><td>76° 28'17.11191"E</td></tr> <tr><td>15°59'31.57187"N</td><td>76° 28'14.49303"E</td></tr> </tbody> </table>	15°59'36.30646"N	76° 28'13.42370"E	15°59'39.92986"N	76° 28'04.87561"E	15°59'36.56414"N	76° 28'03.34912"E	15°59'35.00425"N	76° 28'09.17638"E	15°59'32.51563"N	76° 28'11.80628"E	15°59'30.51169"N	76° 28'09.94223"E	15°59'32.51510"N	76° 28'07.35595"E	15°59'32.86660"N	76° 28'02.91813"E	15°59'30.09774"N	76° 28'02.29913"E	15°59'28.61088"N	76° 28'06.71756"E	15°59'28.63732"N	76° 28'10.10681"E	15°59'23.88395"N	76° 28'10.55176"E	15°59'18.78419"N	76° 28'11.60769"E	15°59'18.50010"N	76° 28'08.43870"E	15°59'23.31154"N	76° 28'06.99829"E	15°59'24.9000"N	76° 28'06.6000"E	15°59'24.4000"N	76° 28'06.5000"E	15°59'20.27519"N	76° 28'06.37074"E	15°59'20.11097"N	76° 28'01.97092"E	15°59'26.0000"N	76° 28'03.3000"E	15°59'26.64945"N	76° 28'01.73814"E	15°59'21.50048"N	76° 28'00.72404"E	15°59'12.28998"N	76° 28'05.67214"E	15°59'05.81299"N	76° 28'00.03622"E	15°59'08.85006"N	76° 28'13.57567"E	15°59'10.39758"N	76° 28'19.78330"E	15°59'15.71582"N	76° 28'19.22424"E	15°59'27.69802"N	76° 28'18.83882"E	15°59'29.38741"N	76° 28'19.22424"E	15°59'30.28432"N	76° 28'17.11191"E	15°59'31.57187"N	76° 28'14.49303"E
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3	Type Of Mineral	Grey Granite Quarry Project																																																														

4	New/Expansion/Modification/Renewal	Renewal
5	Type of Land [Forest, Government Revenue, Gomal, Private / Patta, Other]	Government
6	Area in Acres	32.38 Ha
7	Annual Production (Metric Ton / Cum) Per Annum	48,000 Cum/ Annum (including waste)
8	Project Cost (Rs. In Crores)	Rs.1.75 Crores (Rs.175 Lakhs)
9	Proved Quantity of mine/ Quarry- Cu.m / Ton	46,21,590 Cum (including waste)
10	Permitted Quantity Per Annum - Cu.m / Ton	43,200 Cum/ Annum (recovery)
11	CER Activities: To provide infrastructure facilities to Govt. Schools namely: Govt. Higher Primary School, Mudagalla & Govt. Higher Primary School, Halepete, Lingasuguru Taluk, Raichuru District.	
12	EMP Budget	Rs. 3.50 Lakhs (Capital Cost) & Rs. 3.40 Lakhs (Recurring cost)
13	Quarry plan	28.09.2021
14	Cluster certificate	03.11.2023
15	Notification	29.05.2020
16	Forest NoC	09.11.2023
17	Audit Report	31.10.2023
18	Revenue	06.07.2001
19	PH	17.02.2023

The Proponent informed the Committee that the proposal is for renewal of a lease which was granted earlier on 08.03.1990, with QL No. 5956 which has been non-operational since 2010-11 till date and justified the same as per the audit report issued by DMG dated 31.10.2023. ToR was issued by SEIAA on 27.08.2021 and amendment to ToR on 28.06.2022 and public hearing was conducted on 17.02.2023. The Proponent submitted forest NoC dated 09.11.2023, the Committee noted that the submitted Forest NoC was not clear, whether the applied area is forest land or not. Hence, the Member Secretary, SEAC, through telephonic conversation on 15.11.2023 at 2.28PM confirmed with DFO of Raichur that the applied area is outside the forest area. Accordingly, the Committee noted the details informed by Member Secretary, SEAC and appraised the project.

For the existing leases, based on the applicability of cut off dates as per clause 3 of 233<sup>rd</sup> SEIAA meeting dated 18.04.2023, Proponent informed that they had not carried out any mining activity after 2010-11 till date and no environmental damage has been caused and requested the Committee not to consider the proposal under violation category.

The Committee after discussion, decided to consider the proposal based on the DMG audit report, informing that no mining activity had been carried out since 2010-11 till date, implying that there was no environmental damage/pollution and opined that as an environmental Committee, violation should be ascertained based on the damage caused to the environment and not on the procedural lapses and decided to request SEIAA to consider the deliberations of the Committee in this proposal, while handling violation cases in respect of existing lease, as there is no requirement for Damage Assessment, Remedial Plan and Community Augmentation Plan as per SOP issued by MoEF&CC, Dated:07.07.2021.

There is an existing cart track road to a length of 500meters connecting lease area to the all-weather black topped road and the Committee informed that the quarrying operation needs to be commenced after concreting the approach road to the quarry as per IRC standard norms and should grow trees all along the approach road in first year of operation, for which the Proponent agreed.

The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits. The Proponent informed that all mitigative measures will be taken to ensure that the parameters will be maintained within the permissible limits.

The Committee noted that the baseline parameters are found to be within permissible limits and agreed with the approved quarry plan, with proved mineable reserve of 46,21,590 cum (including waste) and estimated the life of mine to be co-terminus with lease period.

The Committee after discussion decided to recommend the proposal to SEIAA for issue of Environmental Clearance for an annual production of 48,000 cum/ Annum (including waste), with following consideration,

1. Proponent agreed to concrete the approach road to the quarry
2. To grow trees all along the approach road during the first year of operation.
3. To take up nearby lake rejuvenation under CER activities.
4. Proponent agreed to carry out regular health checkup for the workers in the near by Hospital

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

**308.32 Establishment of additional phase of Police Quarters Project at Sy. No.2116, Rajiv Gandhi colony, 8<sup>th</sup> Cross, Shivaji road, Shivajinagar, Bengaluru by M/s. Karnataka State Police Housing & Infrastructure Development Corporation Ltd. BENGALURU – Online Proposal No.SIA/KA/INFRA2/450819/2023 (SEIAA 241 CON 2023)**

**About the project:**

Sl. No	PARTICULARS	INFORMATION
1	Name & Address of the Project Proponent	Mr. SATISH BABU K S Executive Engineer Karnataka State Police Housing & Infrastructure Development Corporation Limited Bangalore Urban Division, KSPH & IDCL, Bangalore.
2	Name & Location of the Project	“Establishment of additional phase of Police Quarters” City sy.no.2116, Rajiv Gandhi colony, 8 <sup>th</sup> Cross Shivaji road, Shivajinagar, Bengaluru-560051.
3	Type of Development	
a.	Residential Apartment / Villas / Row Houses / Vertical Development / Office / IT/ ITES/ Mall/ Hotel/ Hospital /other	Establishment of additional phase of Police Quarters
b.	Residential Township/ Area Development Projects	Not Applicable
4	New/Expansion/Modification/ Renewal	Expansion

5	Water Bodies/ Nalas in the vicinity of project site	No
6	Plot Area (Sqm)	20,321.7 Sqm (5A 0.86G)
7	Built Up area (Sqm)	Existing BUA - 13,790.44 Sqm Proposed BUA - 12,259.72 Sqm Total BUA - 26,050.16 Sqm
8*	FAR • Permissible • Proposed	Permissible – 1.75 (35,562.97 Sqm) Achieved – 1.09 (22,244.32 Sqm)
9	Building Configuration [ Number of Blocks / Towers / Wings etc., with Numbers of Basements and Upper Floors]	<ul style="list-style-type: none"> <li>▪ Existing: Block A:SF+GF+7UF+TF – 28.35 m-under construction</li> <li>Block B: SF+GF+7UF+TF - 28.35 m-under construction</li> <li>Block 1: GF+2UF+TF – 9.45m</li> <li>Block 2: GF+2UF+TF – 9.45m</li> <li>▪ Proposed: Block C:SF+GF+7UF+TF - 28.35 m</li> <li>Block D:SF+GF+7UF+TF - 28.35 m</li> </ul>
10	Number of units/plots in case of Construction/Residential Township /Area Development Projects	Existing units – 152 nos Proposed units – 128 nos Total units – 280 nos
11	Height Clearance	Project site elevation – 938 m Building Height – 28.35 m Maximum building height: 966.35 m As per CCZM, permissible Top elevation 1010 m AMSL or below
12	Project Cost (Rs. In Crores)	40Crores (expansion cost)
13	Disposal of Demolition waste and or Excavated earth	NA
14	Details of Land Use (Sqm)	
a.	Ground Coverage Area	3,219.44Sqm
b.	Kharab Land	-
c.	Total Green belt on Mother Earth for projects under 8(a) of the schedules of the EIA notification, 2006	4,701.07Sqm
d.	Paved area	12,401.19Sqm
e.	Others Specify	--
f.	Parks and Open space in case of Residential Township/ Area Development Projects	--
g.	<b>Total</b>	<b>20,321.70Sqm</b>
15	<b>WATER CONSUMPTION</b>	
I.	Construction Phase	
a.	Source of water	STP treated water for construction purpose & Tanker water for domesticpurpose.
b.	Quantity of water for Construction in KLD	10 KLD
c.	Quantity of water for Domestic Purpose in KLD	5 KLD
d.	Wastewater generation in KLD	4 KLD



e.	Treatment facility proposed and scheme of disposal of treated water	Will be treated in Mobile STP	
<b>II. Operational Phase</b>			
a.	Total Requirement of Water in KLD	Fresh	126KLD
		Recycled	63KLD
		Total	189KLD
b.	Source of water	BWSSB	
c.	Wastewater generation in KLD	151 KLD	
d.	STP capacity	85KLD augmented to 200 KLD	
e.	Technology employed for Treatment	Sequence Batch Reactor (SBR) Technology	
f.	Scheme of disposal of excess treated water if any	Available treated water – 143 KLD (95% of sewage water) For flushing –63 KLD For gardening – 29 KLD For Car washing – 7 KLD Other construction purpose/Avenue Plantation - 44 KLD	
<b>16 Infrastructure for Rainwater harvesting</b>			
a.	Capacity of sump tank to store Roof run off	2X290 Cum (2 Days storage)	
b.	Nos of Ground water recharge pits	90 No's	
17	Storm water management plan	<ul style="list-style-type: none"> <li>Land is gently sloping terrain and sloping towards south-east direction.</li> <li>Separate and independent rainwater drainage system will be provided for collecting rainwater from terrace and paved area, lawn &amp; roads.</li> </ul>	
<b>18 WASTE MANAGEMENT</b>			
<b>I. Construction Phase</b>			
a.	Quantity of Solid waste generation and mode of Disposal as per norms	Quantity – 10 kg/day Solid waste will be generated and collected manually and handed over to local body for further processing	
<b>II. Operational Phase</b>			
a.	Quantity of Biodegradable waste generation and mode of Disposal as per norms	Quantity –252 kg/day Organic wastes will be segregated & collected separately and processed in organic waste converter. Sludge generated from STP of quantity 8.0kg/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 – 378kg/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 of 0.13KL/annum will be 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 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.	

<b>19</b>	<b>POWER</b>	
a.	Total Power Requirement - Operational Phase	BESCOM – 1050kVA
b.	Numbers of DG set and capacity in KVA for Standby Power Supply	4X62.5 kVA ((Existing :2x62.5 kVA and Proposed: 2x62.5 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, VFD drive lifts, energy efficient motors, copper wound transformer, LED lights are proposed in the project -18%.
<b>20</b>	<b>PARKING</b>	
a.	Parking Requirement as per norms	Required = 154no's, Provided = 154 no's
b.	Level of Service (LOS) of the connecting Roads as per the Traffic Study Report	Traffic study conducted towards Balekundri circle and towards Shivajinagar. The LOS is "B".
c.	Internal Road width (RoW)	8 m
21	CER Activities Proposed	It is a government project the CER activities and its budget provision with respect to the proposed project are not worked out.
22	EMP <ul style="list-style-type: none"> <li>• Construction phase</li> <li>• Operation Phase</li> </ul>	Construction phase – 26.25lakhs Operational Phase – 263.00lakhs

The proposal is for expansion of BUA in an ongoing construction project from BUA of 13,790.44 Sqm to 26,050.16 Sqm in plot area of 20,321.70Sq. The Proponent informed that with regard to the ongoing construction they had obtained sanction for the plan from Executive Engineer, Karnatak State Police Housing and Infrastructure Development Corporation limited on 13.10.2022 for BUA of 12,259.72Sq. in plot area of 20,321.70Sq. and an old building with BUA 1,530.72Sq. had been constructed prior to 2006 and have obtained CFE from KSPCB dated 30.09.2023 for the ongoing construction and as per the Executive Engineer KSPH&IDCL letter dated 15.11.2023. The construction is in the initial stage and foundation work is in progress and justified the same with photographs and as the Proponent has planned for expansion by adding additional BUA of 12,259.72Sq. and as the proposed BUA is above 20,000 Sqm, they have applied for EC.

The Committee during appraisal sought details regarding provisions made for harvesting rain water in the proposed area. The Proponent informed the Committee that for harvesting rain water, the Proponent has proposed 2x290cum capacity of sump for runoff from rooftop, landscape and paved areas in addition to 90 recharge pits within the site area.

The Proponent informed that they have made provisions to grow and maintain 260 trees in the project area and provide charging facilities to electrical vehicles in the proposed project area. The Proponent committed to take precautionary measures during and after construction to maintain the environmental parameters within permissible limits in the proposed project and agreed to comply with the ECBC and NBC guidelines and adhere to the by-laws stipulated by the governing authority for buffers and setbacks.

Further the Committee informed the Proponent to install smart water meters for individual units for conservation of water, to use sustainable building materials in the proposed project and to harvest excess rainwater in the project site, to which the Proponent agreed. The Proponent has collected baseline data of air, water, soil and noise which are all within the permissible limits and informed that all were within the limits.

The Committee noted that the baseline parameters are found to be within permissible limits and informed the Proponent to leave buffers/setbacks as per zoning regulations and to harvest maximum rainwater in the proposed project area.

The Committee after appraisal decided to recommend the proposal to SEIAA for issue of EC with following considerations,

1. To provide RWH tanks of 290cum capacity and 90 recharge pits.
2. To undertake additional plantation in the early stage of construction.
3. Proponent agreed to source external water from KGWA approved water tankers.
4. Proponent agreed to carry out community recharge of bore wells in the vicinity of the site
5. Proponent agreed to construct lead of drains till the natural drains/water body for handling excess water.

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

### Refer back from SEIAA

**308.33 Commercial (Office) Building project at Site No 04, PID No.81-1-4, Mahatma Gandhi Road, Bengaluru by M/s.M.S.Ramaiah Developers & Builders Pvt. Ltd. – Online Proposal No.SIA/KA/INFRA2/442966/2023 (SEIAA 176 CON 2023)**

The Proposal was earlier considered in 305<sup>th</sup> SEAC meeting and the Committee had recommended the proposal to SEIAA for issue of EC. The Authority in its 245<sup>th</sup> SEIAA meeting had referred back the proposal informing,

*"The Authority perused the proposal and took note of the recommendation of SEAC.*

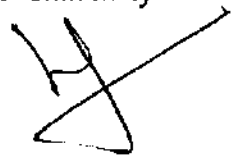
*Further, the Authority noted the complaint received vide email (rameshgowda19822@gmail.com) dated 05.11.2023. The details are as follows;*

*" I am writing to bring to your attention some significant concerns and objections regarding the proposed project at Site No 04, PID No.81-1-4, Mahatma Gandhi Road, Bengaluru-56001, which is currently under review by the State Expert Appraisal Committee (SEAC). It has come to my attention that several critical aspects of the project do not adhere to regulatory guidelines, potentially leading to detrimental environmental consequences.*

*1. Absence of Demolition Waste Management Plan: It has come to our notice that there is a building within the project site, and no demolition waste management plan has been submitted, which is a clear violation of environmental regulations.*

*2. Tree Preservation Concerns: There is a substantial number of trees within the project site, which raises the necessity for a No Objection Certificate (NOC) for forest clearance to ensure their preservation.*

*3. Khata Ownership: The Khata ownership is in the name of "The Church of*



*South India Association" and not "M/s. M. S. Ramaiah Developers & Builders Pvt. Ltd.," which needs clarification.*

- 4. STP Location and Design: The Sewage Treatment Plant (STP) is proposed to be located below ground level, which is not in accordance with regulations. Furthermore, the design of the STP appears to lack Biological Nutrient Removal (BNR), a crucial component of sewage treatment.*
- 5. Infeasible STP Location: The STP's proposed location is marked in a position where there is a ramp, making it physically infeasible. A landscape.pdf document has been uploaded in portal from which we can understand this claim.*
- 6. Hygiene Concerns: Form 1A, Section 2.12, mentions that sewage produced will be directed into the sewer line, raising hygiene concerns especially in the MG Road area.*
- 7. Environmental Sensitivity: In Form 1(I), every column indicating environmental sensitivity is marked as 'nil,' which suggests a lack of due diligence by the consultant. This is problematic, especially when there is clear evidence of drainage and forest within a 15 km radius.*
- 8. Excessive Noise Levels: Noise level tests indicate that the Leq value exceeds the prescribed limit of 65 dBA, registering at 77 dBA during the daytime. It is concerning that there are no proposed mitigation measures to address this issue. Given the presence of trees within the site, preserving the natural noise attenuation provided by these trees is recommended. In light of these concerns, I kindly request SEAC to thoroughly assess and scrutinize the proposed project, ensuring that it aligns with all the requisite environmental and regulatory standards. The potential negative impacts on the environment and public health should not be underestimated."*

The Committee in the present meeting sought clarification for the following observations from the project Proponent and Consultant,

- 1. Absence of Demolition Waste Management Plan: It has come to our notice that there is a building within the project site, and no demolition waste management plan has been submitted, which is a clear violation of environmental regulations.*

Reply: The Proponent informed that the old building in the project site is ruined and constructed in cement and with wooden roof. The window and some portion of wooden roof to be handed over to recyclers. The estimated quantity of C & D waste of approximately 1000 cum and to be handed over to KSPCB authorized vendors for re-process and to buy back 40% of recycled material for the proposed construction. The permission from the BBMP for demolition of the old building will be taken before initiating demolition work and justified the existing building status with the photos of building is below. Further, informed the Committee that the details of demolition was earlier



already mentioned in the Form -1 and was presented in slide number 16 before the Committee in 305<sup>th</sup> SEAC meeting.

2) *Tree Preservation Concerns: There is a substantial number of trees within the project site, which raises the necessity for a No Objection Certificate (NOC) for forest clearance to ensure their preservation.*

Reply: The Proponent informed that in the present proposal it is proposed to remove 4 trees and retain 6 trees and before removing the trees permission from BBMP (Forest cell) to be taken and proposed to grow additional of 60 trees of below mentioned species to be grown all around the periphery of the building. Further, informed the Committee that the details was earlier already mentioned in the Form -1 and was presented in slide number 12 before the Committee in 305<sup>th</sup> SEAC meeting.

Proposed List of trees	
Latin Name	Common Name
Artocarpus integra	Jack fruit tree
Mangifera indica	Mango
Syzygium cumini	Jamun
Anthocephalus kadamba	Kadamba
Azadirachta indica	Neem
Michelia champaka	Champa
Pongamia pinnata	Honge
Saraca asoca	Asoka
Terminalia arjuna	Arjun
Terminalia catappa	Indian almond/ Badam

3) *Khata Ownership: The Khata ownership is in the name of "The Church of South India Trust Association" and not "M/s. M.S. Ramaiah Developers & Builders Pvt. Ltd," which needs clarification.*

Reply: The Proponent informed that presently the owner of the land "The Church of South India Trust Association", M/s. M.S. Ramaiah Developers & Builders Pvt. Ltd. has taken land for lease of 21 years for construction of commercial building and because of this the Khata owner remains in the name of "The Church of South India Trust Association" and in the registered lease the Church of South India Association represented By its Treasurer cum CEO Dr John S Doria through his duly appointed GPA Holder Sir Thyagaraj Director, CSITA made Deed Of Lease on 17/5/2019 to M/s.

M.S. Ramaiah Developers & Builders PVT LTD. and justified the same in the registered Lease deed and in the Encumbrance Certificate.

- 4) *STP Location and Design: The Sewage Treatment Plant (STP) is proposed to be located below ground level, which is not in accordance with regulations. Furthermore, the design of the STP appears to lack Biological Nutrient Removal (BNR), a crucial component of sewage treatment.*

Reply: The Proponent informed that they have provided well exhaust system for the removal of odor from the STP & also provided air blower for providing fresh air to the STP and had proposed anoxic tank which is used for denitrification process/ Biological Nutrient Removal. The STP design details including Anoxic tank is submitted.

Design of Anoxic tank:

Design average flow = 55 KLD

Detention Time = 4 Hr

Volume of anoxic tank = 10.02m<sup>3</sup>

Anoxic tank dimension = 3.34 m x 1.0m x 3.0m

Further, informed the Committee that the details of STP was earlier presented in slide number 20 before the Committee in 305<sup>th</sup> SEAC meeting.

- 5) *Infeasible STP Location: The STP's proposed location is marked in a position where there is a ramp, making it physically infeasible. A landscape.pdf document has been uploaded in portal from which we can understand this claim.*

Reply: The Proponent informed that the capacity STP is 55 KLD and in the proposed project they have two basements of height 9.8 mts. 2<sup>nd</sup> basement at height of 4.5 mts and First Basement height is 5.30 mts. As per the design the maximum height of all our tank is 3m and 0.5 mts is Free board

As, total height of the basements is 9.8 mts and there is a difference of 6.3 mts and this 6.3mts is sufficient to do the maintaince, cleaning and operational work. For construction of the STP there is sufficient space for each unit & pump room with easy accessibility for each unit. And had also obtained CFE from KSPCB for the proposed project dated 11.10.2023.

- 6) *Hygiene Concerns: Form IA, Section 2.12, mentions that sewage produced will be directed into the sewer line, raising hygiene concerns especially in the MG Road area*

Reply: The Proponent informed that the earlier sewage generated from the labour toilets of 3 Nos. and 3 Nos. of bath rooms; of total sewage 4KLD is proposed to connect the existing sewer but now had proposed for 5 KLD of mobile STP for treating sewage from the labour & it is reused for construction purposes.



- 7) *Environmental Sensitivity: In Form 1 (D), every column indicating environmental sensitivity is marked as 'nil,' which suggests a lack of due diligence by the consultant. This is problematic, especially when there is clear evidence of drainage and forest within a 15km radius.*

Reply: The Proponent informed that the nearest water body present is Ulsoor lake is at an aerial distance of 540m from the project site and Bannerghatta National Park is more than 15 km away from the project site. The area of 5km radius around the project site is completely developed and Sufficient Storm water drainage systems are in constructed by Government with Engineered Box Darin is provided to carry the storm water and assured that no water to be entering the drainage system from the site area and functionality of existing drains would not be altered.

- 8) *Excessive Noise Levels: Noise level tests indicate that the Leq value exceeds the prescribed limit of 65 dBA, registering at 77 dBA during the daytime. It is concerning that there are no proposed mitigation measures to address this issue. Given the presence of trees within the site, preserving the natural noise attenuation provided by these trees is recommended.*

Reply: The Proponent informed that the noise level tests are done for the surrounding area; due to the vehicular movements around the site area the noise level are on higher side. As a part of mitigation plan, 60 trees around the boundary of the project site to be grown as a barrier and for DG sets used in the project are with proper acoustics to controlling the noise.

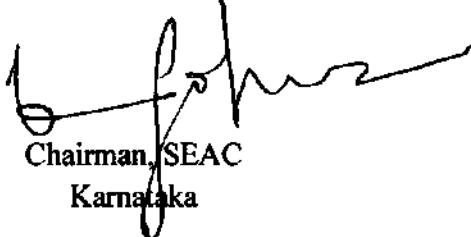
The Committee noted the clarification given by the Proponent and informed the Proponent to clarify whether the treasurer and CEO Dr. John S. Doria has been authorized by "The Church of South India Trust Association" to Execute deed of lease infavour M/s. Ramaiah Developers & Builders Pvt. Ltd., for which the Proponent has not submitted the documents / clarification.

The Committee after discussion decided to reiterate its earlier decision taken in 305<sup>th</sup> SEAC meeting and to forward the proposal to SEIAA for necessary action with a condition of obtaining the above mentioned documents before grant of EC.

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

Meeting Concluded with vote of thanks to all.

  
Member Secretary, SEAC  
Karnataka

  
Chairman, SEAC  
Karnataka