168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 4)

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Environmental Clearance for proposed production capacity enhancement of M/s. Siddharth Carbochem Products Ltd.

Is a Violation Case: No

1.Name of Project	M/s. Siddharth Carbochem Products Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rishabh Jain
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Industrial Project , Schedule 5 (f) Category B1 as per EIA Notification, 2006.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Existing project was set up before 2006.
8.Location of the project	Plot no E-3, MIDC area near Raymond factory, Jalgaon.
9.Taluka	Jalgaon
10.Village	-
Correspondence Name:	Mr. Rishabh Jain
Room Number:	-
Floor:	4th Floor
Building Name:	Eros Theatre building
Road/Street Name:	J Tata Road,
Locality:	Churchgate
City:	Mumbai
11.Whether in Corporation / Municipal / other area	MIDC area.
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 8983.32
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	20700
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 8983.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 09-12-2014
19.Total ground coverage (m2)	5992.39
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.94
21.Estimated cost of the project	200000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable, Project is Industrial; the height of factory shed is 20 m

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Width of the road from the nearest fire station is 12 meters wide.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius of 9 meters is provided within the plot premises.
29.Existing structure (s) if any	Manufacturing plant & associated infrastructure are present on project plot
30.Details of the demolition with disposal (If applicable)	Not applicable, reactors & related machinery will be set up in existing shed.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Methyl Salicylate	250	550	800
2	Salicylic acid	95.8	146.2	242
3	Octyl Salicylate	0	150	150
4	Sodium Salicylate	0	150	150
5	Aspirin	0	150	150
6	Benzyl Salicylate/ Amyl Salicylate/ Hexyl Salicylate/Ethyl Salicylate/ Homosalate	0	150	150
7	Synthetic polymer	143	857	1000
8	Water treatment compound	125	875	1000
9	Sodium Sulphate Salt	0	30	30

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	6.0	4.0	10	1.2	0.8	2.0	4.8	3.2	8.0
Industrial Process	45	20	65	41.53	13.47	55	3.47	6.53	10
Cooling tower & thermopack	8 (2.4 condensate recovery)	572.8 (160 condensate recovery)	580.8 (162.4 condensate recovery)	4.87	357.1	361.97	0.73	55.69	56.42
Gardening	1.0	33.15	34.15	1	33.15	34.15	0	0	0

Fresh water requirement	60	630	690	48.6	404.53	453.12	9.0	65.42	74.42

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon: 3.2 to 62.5 mbgl; Post Monsoon: 0.8 to 27.1 mbgl
	Size and no of RWH tank(s) and Quantity:	RWH tank of 20 m3 volume, Size: (4x2x2.5) m
	Location of the RWH tank(s):	Near Entry Gate -2
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	8.0 Lakh
	Budgetary allocation (O & M cost) :	0.5 Lakh
	Details of UGT tanks if any :	Currently Water storage UG tank of 128 KL capacity have been provided (existing) & 400 KLD will be provided after expansion.
35.Storm water drainage	**Natural water drainage pattern:**	Slope of Natural water is from East to West is 0.0275
	Quantity of storm water:	Storm water have been designed considering a peak rainfall of 100 mm/Hr and run-off co-efficient of 0.9. The total quantity of storm water will be 1863 m3/Hr
	Size of SWD:	600 m x 600 mm x 560 mm.
Sewage and Waste water	**Sewage generation in KLD:**	8.0
	STP technology:	Domestic waste water will be treated by aeration of ETP.
	Capacity of STP (CMD):	Sewage will be treated by aeration of ETP.
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction activities are not anticipated; hence waste generation will not occur.
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Dry wastes such as paper scrap & coal ash are generated. Scrap waste: Existing 300 Kg/M & After expansion 500 kg/M. Coal Ash: Existing : 18.12 MT/M & After expansion : 163 MT/M
	Wet waste:	Not Applicable
	Hazardous waste:	ETP Sludge (3 MT/M), Evaporator residue (7 MT/M), Sodium Sulphate Salt (30 MT/M), Used/Spent Oil (0.12 MT/M), Spent Catalyst (1.0 MT/M), Discarded Containers/Barrels (350 Nos./M), Distillation residue (0.9 MT/M)
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Through authorized recycler/re-processor/brick manufacturer.
	Wet waste:	Not Applicable
	Hazardous waste:	ETP Sludge: CHWTSDF; Evaporator residue: CHWTSDF; Sodium Sulphate Salt: Reuse/Recycle/Sell to authorized vendor; Used/Spent Oil: Authorized reprocessor/CHWTSDF; Spent Catalyst: Reuse/Sell to authorized reprocessor/CHWTSDF; Discarded Containers/Barrels: Recycle/Authorized reconditioner/CHWTSDF; Distillation residue: Recycle/CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Dedicated hazardous waste storage area will be provided as per the project plot layout.
	Area for the storage of waste & other material:	Dedicated Hazardous Waste storage area will be provided.
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2.0 Lakh
	O & M cost:	6.0 Lakh

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6.8	8.2	6- 8.5
2	TDS	mg/l	2400	2000	2100 mg/l
3	BOD	mg/l	110	24	100 mg/l
4	COD	mg/l	500	203.1	250 mg/l

Amount of effluent generation (CMD):	74.42 CMD
Capacity of the ETP:	85 CMD
Amount of treated effluent recycled :	66.7 CMD
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	The effluent will be segregated as High conc. Effluent and low conc. Effluent. The high conc. effluent will be treated in MEE. The low conc. effluent along with MEE condensate and blow down of CT & Boiler will be treated in the 3 stage ETP (Primary, secondary & tertiary) followed by R.O treatment to achieve ZLD. The domestic effluent will be treated in the aeration tank of the ETP.
Disposal of the ETP sludge	CHWTSDF, M/s. Maharashtra Enviro Power Ltd., Ranjangaon for disposal.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	35.3	MT/M	0.75	2.25	3.0	CHWTSDF, Rajangaon
2	Evaporator residue	37.3	MT/M	--	7.0	7.0	CHWTSDF, Rajangaon
3	Sodium Sulphate salt	--	MT/M	--	30	30	Reuse/Recycle/Sale to authorized vendor
4	Used/Spent Oil	5.1	MT/M	0.02	0.1	0.12	Sell to authorized vendor/CHWTSDF

5	Spent catalyst	28.2	MT/M	0.2	0.8	1	Reuse/Sell to authorized reprocessor/CHWTSDF
6	Discarded containers 7 barrels/liners	33.1	MT/M	50	300	350	Recycle/Authorized reconditioner/recyclers
7	Distillation residue	20.3	MT/M	0.15	0.75	0.9	Recycle/CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1.5 MT/Hr steam boiler (This existing Boiler will be scraped out)	Coal/Briquette: 180 kg/Hr	1	30	0.8	150°C
2	200 KVA Diesel Generator (Existing)	Diesel : 25 L/Hr	2	7	0.1016	80°C
3	750 KVA Diesel Generator (Proposed)	Diesel : 150 L/Hr	3	12	0.2032	90°C
4	6 lakh kcal/Hr Thermopack (Proposed)	Coal/Briquette 265 Kg/Hr	4	30	0.8	160°C
5	3 MT/Hr steam boiler (this boiler will be for stand by)(Proposed)	Coal/Briquette: 580 kg/Hr	1	30	0.8	150°C
6	10 MT/hr steam boiler (Proposed)	Coal/Briquette: 2000 kg/Hr	1	30	0.8	150°C
7	Scrubber stack-1	NA	5	6	0.5	35°C
8	Scrubber stack-2	NA	6	6	0.5	35°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal/Briquette	180 Kg/Hr	2085 Kg/Hr	2265 Kg/Hr
2	Diesel	25 L/Hr	150 L/Hr	175 L/Hr
41.Source of Fuel		Coal -Local Supplier, Briquette - Local Supplier ,Diesel -Local Petroleum vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	6831 sq.m
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	Existing no. of trees – 302 Nos. Total no of trees after expansion 1043 Nos.
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Macaranga peltata, Schleichera Oleosa, Microcos Paniculata, Terminalia elliptica , Terminalia Paniculata , Terminalia bellirica, Cordia dichotoma, Helicteresisora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Azadirachta Indica , Callicarpato mentosa, Neolamarckia cadamba, Pterospermum acerifolium
	Timeline for completion of plantation :	1 years after grant of Environmental clearance.

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	50	Native ornamental tree having flowers attracting bees and butterflies.
2	Bombax ceiba	Sawar	38	A native tree with large showy flowers visited by birds.
3	Macaranga peltata	Chandwar	25	A native tree found in abundance across the sahyadri range.
4	Schleichera oleosa	Kusum	63	A native tree found in abundance in Sahyadris.
5	Microcos paniculata	Shirali	44	A native evergreen tree abundantly found across the Sahyadri ranges.
6	Terminalia elliptica	Ain	41	A native evergreen broad leaved tree common in the Sahyadris.
7	Terminalia paniculata	Kindal	48	Kindal is a tropical tree with a large natural distribution in Western Ghats.
8	Terminalia bellirica	Baheda	40	A native medicinally important tree.
9	Cordia dichotoma	Shelu	60	Native deciduous tree attracting various insects.
10	Helicteres isora	Murudsheng	28	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds.
11	Holoptelea integrifolia	Ainasadada	44	A native tree abundantly found in Jalgaon District.
12	Butea monosperma	Palash	58	A native brilliantly flowering tree fed by local birds fairly common and abundant across the Jalgaon District.
13	Oroxylum indicum	Tetu	30	A native ornamental tree.
14	Azadirachta Indica	Neem	44	A native evergreen tree known for plantation in polluted area.
15	Callicarpato mentosa	Aisar	20	A native evergreen tree with beautiful flowers & thick hairy leaves which helps in dust settling.
16	Neolamarckia cadamba	Kadamba	68	A native evergreen tree with thick canopy.
17	Pterospermum acerifolium	Karnikar	40	A native ornamental tree.
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1300 KW
	During Operation phase (Demand load):	1620 KVA
	Transformer:	2000 KVA
	DG set as Power back-up during operation phase:	2 Nos. of DG set - 200 KVA & 750 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar power will be utilized for the illumination of office buildings, parking areas and common areas etc. streetlights will be installed.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar energy	1 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air emissions	1. Stack height of 30m have been provided to existing boiler of capacity 1.5 MT/Hr to ensure effective dispersion of pollutants. 2. Stack of 7m have been provided to the D.G. set of capacity 200 KVA.	1. Multicyclone separator attached to Stack of 30m will be provided to the proposed boiler of capacity 3 MT/Hr (this boiler will be Stand by) & proposed thermopack of capacity 6 Lakh Kcal/Hr. & proposed boiler of capacity 10 MT/Hr. 2. DG set stack of 12 m height will be provided to proposed DG set
Waste Water	ETP of 8 CMD capacity comprising of Primary, Secondary and Tertiary Treatment. STP of 3 CMD will be scraped out.	ETP will be upgraded to 85 CMD capacity comprising of Primary, Secondary and Tertiary Treatment. Installation of MEE of 25 CMD capacity. Installation of RO of 80 CMD.
Noise Pollution	Acoustic enclosures, Green belt	Noise acoustic enclosures will be provided, Adequate green belt will be developed to control noise within premises
Solid Hazardous Waste	The Hazardous waste is stored in a dedicated demarcated area, and sent to authorized recycler or sent to Ranjangaon CHWTSDF for disposal.	The Hazardous waste is stored in a dedicated demarcated area, and sent to authorized recycler or sent to Ranjangaon CHWTSDF for disposal.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):			
Serial Number	**Attributes**	**Parameter**	**Total Cost per annum (Rs. In Lacs)**
1	Not Applicable	Not Applicable	Not Applicable

b) Operation Phase (with Break-up):				
Serial Number	**Component**	**Description**	**Capital cost Rs. In Lacs**	**Operational and Maintenance cost (Rs. in Lacs/yr)**
1	Air	1. Multicyclone separator attached to Stack height of 30m has been provided to existing boiler of capacity 1.5 MT/Hr. (This boiler will be scraped out). 2. Multicyclone separator attached to Stack of 30m will be provided to the proposed boiler of capacity 3 MT/Hr (This boiler will be stand by) & 10 TPH boiler. 3.Multicyclone separator attached to Stack of 30m will be provided to the proposed TFH of capacity 6 Lakh Kcal/Hr.	20	3.0
2	Water	Upgradation of ETP to 85 CMD capacity, MEE and R.O.	200	20
3	Noise	Noise Pollution Control, Installation of anti-vibration pads & Enclosure	1.0	0.05
4	Environment Monitoring	Quarterly Environment Monitoring : Ambient Air Monitoring (PM10, PM2.5, SO2, NOx, CO) , Work Place Air Monitoring (VOCs & Fugitive Emissions), Boiler & DG Set Monitoring (TPM, SO2, NOx), Effluent Treated & Untreated(pH, COD, BOD, TSS, TDS, Oil & Grease) , Monitoring of Carbon & Water Footprint.	2.0	5.5
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear plugs & Annual Health Check-up of workers.	3.0	7.0

6	Green Belt	Green Belt Maintenance	5.0	7.0
7	Rain Water Harvesting	Installation of Rain Water Harvesting system	8.0	0.5
8	Solid Waste Management	Solid Waste Management & Disposal to CHWTSDF	2.0	6.0
9	Energy conservation	Solar street lights & solar power to be provided to office building, parking and common areas etc.	146.5	0.25
10	Lightening arresotr	Installation	1.21	00

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Salicylic acid	Solid	Ware House	1000	1000	1750	Import	By Road/ By Sea
Methanol	Liquid	Solvent Area	60	60	370	Local	By Road
Caustic soda	Solid	Ware House	30	20	35	Local	By Road
Epichlorohydrin	Liquid	Tank Farm	40	40	150	Local/ Import	By road/by sea
Dimethylamine	Liquid	Tank Farm	40	40	120	Local	By Road
Adipic acid	Solid	Ware House	60	60	120	Local	By Road
2 ethyl hexanol	liquid	Solvent Area	20	20	150	Local	By Road
Acetyl Chloride	liquid	Ware House	25	25	120	Local	By Road
Acetic Acid	liquid	Tank Farm	20	20	60	Local	By Road
Trimethylcyclohexanol	liquid	Tank Farm	10	10	25	Local	By Road
Benzyl Chloride	liquid	Tank Farm	20	20	68	Local	By Road
Diallyldimethylammonium chloride	liquid	Ware House	20	20	68	Local/import	By road/by sea
Dicyandiamide	solid	Ware House	60	60	155	Local	By Road
Formaldehyde	liquid	Tank Farm	20	20	150	Local	By Road
Ammonium Chloride	solid	Ware House	30	20	29	Local	By Road
Diethylenetriamine	liquid	Ware House	20	20	29	Local	By Road
Acrylamide	solid	Ware House	10	10	10	Local	By Road
Poly Aluminum Chloride	solid	Ware House	25	20	33	Local	By Road
Aluminum Chlorohydrate	liquid	Tank Farm	15	15	50	Local	By Road
Acrylic Acid	liquid	Ware House	18	15	18	Local	By Road
Maleic Anhydride	solid	Ware House	7	5	7	Local	By Road
Styrene	liquid	Ware House	8	5	8	Local	By Road
Butyl Acrylates	liquid	Ware House	10	6	10	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	2070 sq. m.
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Width of all Internal roads is 6 m & Turning radius is 9 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable

Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 166th meeting held on 27.05.2019 wherein ToR was granted along with following additionalconditions.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

1. PP to submit certificate of incorporation of the company, list of directors and memorandum and association of articles.

2. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

3. PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.

4. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

5. PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.

6. PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.

7. PP to prepare the Legal Reregister with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

8. PP to carry out HAZOP and QRA and submit disaster management plan.

9. PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.

10. PP to submit technical note on how proposed expansion will be accommodated in the existing manufacturing plant along with equipment layout, spaces required for storage of raw materials and finished products etc.

11. PP to submit structural stability certificate of existing building with respect to the proposed expansion.

12. PP to submit hazardous chemical handling protocol

13. PP to include water and carbon foot print monitoring in the EMP.

14. PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

Now PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

After deliberations with the PP and their accredited consultant, SEAC-1 decided to defer the proposal till submission of compliance of follwing points.

Specific Conditions by SEAC:

1) PP to submit revised compliance of additional ToR No. 2,3,4,5.
2) PP to submit revised water balance calcualtions considering one time water requirement, qty. of recycled water and qty. of condensate from the boiler.
3) PP to submit report on the status of compliance of consent conditions obtained from Maharashtra Pollution Control Board.
4) PP to submit an undertaking for not violating any requirement of EIA Notification, 2006.
5) PP to prepare and submit CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 4)

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Expansion of MS Billet/TMT Bars manufacturing facilities.

Is a Violation Case: No

General Information: Venue: Maharashtra Economic Development Council, Board Room, 3rd Floor, Y. B. Chavan Centre, Gen. Jagannathrao Bhosale Marg, Near Mantralaya, Mumbai- 400 020.

1.Name of Project	M/s Geetai Steels Pvt. Ltd., Jalna.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ashish Agrawal
4.Name of Consultant	M/s. Mantras Green Resources Limited,Nashik
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion and modernization Project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	YES, REFERENCE NO: SEAC: 2010/CR-836/TC-2
8.Location of the project	Plot no: F-21, F-22,F-22 Part I, F-22 part: II, Addl. MIDC area Phase II, Jalna, Dist: Jalna
9.Taluka	Jalna
10.Village	Jalna
Correspondence Name:	Plot no: F-21, F-22,F-22 Part I, F-22 part: II, Addl. MIDC area Phase II, Jalna, Dist: Jalna
Room Number:	00
Floor:	00
Building Name:	NA
Road/Street Name:	MIDC AREA JALNA
Locality:	MIDC JALNA
City:	JALNA
11.Whether in Corporation / Municipal / other area	Industrial Area
12.IOD/IOA/Concession/Plan Approval Number	00
	IOD/IOA/Concession/Plan Approval Number: No
	Approved Built-up Area: 15950.77
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	No
15.Total Plot Area (sq. m.)	39021.0sq.m
16.Deductions	00
17.Net Plot area	00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 00
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 09-02-2016
19.Total ground coverage (m2)	00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	450000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	INDUSTRIAL SHEDS	Not applicable	Not applicable

23.Number of tenants and shops	00
24.Number of expected residents / users	00
25.Tenant density per hectare	00
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	JALNA 05 KMS FROM THE FACTORY, 06 METERS WIDE AND 09 METERS TURNING RADIUS IS PROVIDED.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	09 METERS TURNING RADIUS IS PROVIDED
29.Existing structure (s) if any	EXISTING MS BILLET PLANT SHED, ROLLING MILL SHED, SCRAP STORAGE SHED, FINISHED GOOD STORAGE YARD AND OTHER UTILITIES.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	MS Billets and TMT bars	6000	30,000	36,000

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	133
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	20(Treated water from STP will be used for gardening)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	133
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	400
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	133
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	20(Treated water from STP will be used for gardening)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	133
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	400
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	13	10	23	02	01	03	11	09	20
Industrial Process	20	70	90	10	35	45	10(REUSE AFTER COOLING)	35(REUSE AFTER COOLING)	45(REUSE AFTER COOLING)
Gardening	10	10	20	10	10	20	00	00	00

Fresh water requirement	43	90	133	00	00	00	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	BELOW 15 METERS
	Size and no of RWH tank(s) and Quantity:	about 500 cmd storage capacity.
	Location of the RWH tank(s):	in premises and adjacent land.
	Quantity of recharge pits:	1
	Size of recharge pits :	details is enclosed final EIA
	Budgetary allocation (Capital cost) :	10.00 Lacs
	Budgetary allocation (O & M cost) :	0.5 lacs
	Details of UGT tanks if any :	400 CMD UGT is provided for fire fighting.
35.Storm water drainage	**Natural water drainage pattern:**	details incorporated in EIA
	Quantity of storm water:	details incorporated in EIA
	Size of SWD:	details incorporated in EIA
Sewage and Waste water	**Sewage generation in KLD:**	20 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	01 nos 25 CMD capacity.
	Location & area of the STP:	in own premises
	Budgetary allocation (Capital cost):	10.00 LACS
	Budgetary allocation (O & M cost):	1.2 LACS

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction will be on plan barren land, there no any demolition so that no any solid waste will be generate.
	Disposal of the construction waste debris:	land filling and levelling
Waste generation in the operation Phase:	**Dry waste:**	burnt slag 03 %
	Wet waste:	STP sludge will be used for gardening as manure.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP sludge will be used for gardening as manure.
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	sold to brick manufacturers
	Wet waste:	Zero discharge unit
	Hazardous waste:	No
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP sludge will be used for gardening as manure.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Not Applicable
	Area for the storage of waste & other material:	will be provide as per requirement nearby area.
	Area for machinery:	shed will be required. is at nearby area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lacs
	O & M cost:	1.5

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Amount of effluent generation (CMD):	Not Applicable
Capacity of the ETP:	Not Applicable
Amount of treated effluent recycled :	Not Applicable
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Not Applicable
Disposal of the ETP sludge	Not Applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Fume extraction system	electricity 30.01mw	existing stack 01 nos (Proposed: 1 Nos)	existing stack height is 30 meters and proposed stack height is 45 Meters.	1.2 and 2.00 meters for proposed	40 to 45 degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity	10.01 MW	20.00 MW	30.01 MW
41.Source of Fuel		MSEDCL		
42.Mode of Transportation of fuel to site		MSEDCL		

43.Green Belt Development	**Total RG area :**	33% of open area will be provided or as per norms
	No of trees to be cut :	0
	Number of trees to be planted :	643
	List of proposed native trees :	Shirish,neem,aam,Ashoka,Bakul,Pangara
	Timeline for completion of plantation :	within construction phase

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shiris	100	Shady tree, yellowish green fragrant flowers
2	Saraca asoka	Ashoka	200	Shady tree with red-yellow flowers.
3	Mimusops elengi	Bakul	123	Shady tree, small white fragrant flowers
4	Lagerstroemia flos-regineae	Tamhan	100	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
5	Bauhinia racemosa	Aapta	120	Small tree with small white flowers, Butterfly host plant
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	1 MW
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	10 MW
	During Operation phase (Demand load):	10 MW
	Transformer:	No
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

No

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	solar street light will be provided	as per requirement

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
induction Furnaces	Fumes extraction system followed by hood	Fumes extraction system followed by hood

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 Lacs App.
	O & M cost:	5 Lacs App.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air pollution	control device, chimney, water cooling arrangement, insulation etc	80
2	Wastewater management	Wastewater management	10
3	Solid Waste disposal	Solid Waste disposal	08

4	Green Belt	Development of Green belt by plantation of 643 plants,herbs and shrubs covering 33% area of total area	7
5	Monitoring	Environmental parameters to be monitored	--
6	Environmental Cell	Management of environment by Environment Management Department	--
7	Total	Total	107

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution	control device, chimney, water cooling arrangement, insulation etc	120	08
2	Wastewater management	Wastewater management	7	1.2
3	Solid Waste disposal	Solid Waste disposal	07	1
4	Green Belt	Development of Green belt by plantation of 643 plants,herbs and shrubs covering 33% area of total area	3	1
5	Monitoring	Environmental parameters to be monitored	--	2
6	Environmental Cell	Management of environment by Environment Management Department	--	2
7	Total	Total	137	15.2

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	12 % area is provided.
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	06 meter wide and 09 meters turning radius
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	3 a as per EIA notification
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes ETP for the treatment of waste water. No waste water will be released outside the plot. PP to provide STP for the treatment of domestic sewage.

Drainage pattern of the project	PP considered the contour levels while designing the drainage.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits.
Solid Waste Management	PP to explore possibility to shift scrap processing and slag storage on other plot so as to increase working space in the existing plant.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 10 MW, which will be supplied by MSEDCL. PP also proposes to install one DG set of capacity 500 KVA with HSD as a fuel.
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads with nine meter wide turning radius.
Landscape Plan	PP proposes 33% green belt within the premises.
Disaster management system and risk assessment	PP prepared On site emergency plan to handle the emergency situations.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs.107.00 Lakh during construction phase and 137.00 Lakh as capital cost and Rs. 15.20 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	PP to explore possibility to plan processing of scrap on other plot so as to increase more open space on the plot for other activities like proper storage of waste slag etc.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 3(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF& CC published in April, 2015 in 138th meeting of SEAC-1 held on 01.06.2017 wherein ToR was grnated to the PP for the preparation of EIA /EMP reprot.

PP informed that they have obtained earlier Environment Clearance vide No. SEAC2010/CR-386/TC-2 dated 30.09.2011. PP submitted copy of certified compliance obtianed from the Regional Office of MoEF&CC, nagpur. During visit few non compliances were observed for whcih PP submitted the complinace to the Nagpur Office on 05.08.2019.

Now PP submitted EIA /EMP report for the appraisal.

Public Hearing was conducted on 19.11.2018.

PP has obtained certified complinace of the earlier EC on 26.02.2018 from Regional Office of MoEF&CC, Nagpur.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal for prior Enviornmental Clearance to the SEIAA subejct to the follwoing conditions.

Specific Conditions by SEAC:

1) PP to explore possibility to shift scrap processing and slag storage on other plot so as to increase working space in the existing plant.
2) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
3) PP to include water and carbon foot print in the Environmental Monitoring.
4) PP to ensure safety of people working on the furnace. PP to prepare all safety training modules in Marathi so as to increase its effectiveness.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Environmental Clearance for proposed expansion project of M/s Siddhivinayak Chemicals for production capacity enhancement.

Is a Violation Case: No

1.Name of Project	M/s Siddhivinayak Chemicals.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Utsav Jhonsa
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion, Schedule 5 (f), Category - B1 under EIA Notification 2006.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No.
8.Location of the project	Plot no – A-33, MIDC Kurkumbh, Tal- Daund, Dist- Pune, Maharashtra. 413802
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. Utsav Jhonsa
Room Number:	E/210
Floor:	2nd Floor
Building Name:	Kailas Industrial Complex.
Road/Street Name:	Veer Savarkar Marg
Locality:	Park site
City:	Vikhroli (W), Mumbai
11.Whether in Corporation / Municipal / other area	MIDC – Kurkumbh
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	2065 sq. m.
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 1069
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 26-09-2017
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	50000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The nearest fire station is the Fire station in MIDC Kurkumbh. The road to the project side is 6 meters wide.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius of 9 meters is provided within the plot premises.
29.Existing structure (s) if any	Manufacturing plant , associated utilities, raw material storage area and admin building are present on project plot
30.Details of the demolition with disposal (If applicable)	The existing shed of MS, covering area of 106.68 sq.m will be demolished. The scrap material after demolition will be sold to the scrap vendor.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Tenoxicam Intermediate	80	Production will be Stopped	Production will be Stopped
2	Linezolid Intermediate	260	Production will be Stopped	Production will be Stopped
3	Linezolid	-	300	300
4	Desloratadine	-	100	100
5	3, 4 Dihydroxy Benzaldehyde	-	500	500
6	Febuxostat	-	300	300
7	Flavoxate HCL	-	200	200
8	Fluvoxamine Maleate	-	100	100
9	Montelukast	-	200	200
10	Pregabalin	-	500	500
11	Rosuvastatin Calcium	-	200	200
12	Rupatadine Fumarate	-	100	100
13	Tapentadol Hydrochloride	-	100	100
14	Tolfanamic Acid	-	1000	1000
15	Lornoxicam	-	250	250

16	Zolpidic Acid	-	500	500
17	Total	340 (Production will be Stopped)	4350	4350

32.Total Water Requirement

Dry season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0.855	0.27	1.125	0.0855	0.027	0.1125	0.7695	0.243	1.0125
Industrial Process	1	5.75	6.75	0	0	0	1	6.67	7.67

Cooling tower & thermopack	10	27.11	37.11	7.722	15.9072	23.63	0.3091	5.01	5.3192
Gardening	1.14	0.86	2	1.14	0.86	2	0	0	0
Fresh water requirement	12.995	33.99	46.985	8.3983	16.7942	25.7425	2.0786	11.923	14.00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Average premonsoon water level of Daund is 7.48 mbgl
	Size and no of RWH tank(s) and Quantity:	The rain water collected from roof top will be connected to the RWH tank of capacity 10 CMD.
	Location of the RWH tank(s):	Next to UG Tank.
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	1,00,000
	Budgetary allocation (O & M cost) :	5,000
	Details of UGT tanks if any :	Fire Fighting tank of 40 CMD capacity & U. G. Tank of 30 CMD capacity are provided.
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drains of adequate capacity will be provided along the east & west boundaries of the plot.
	Quantity of storm water:	Maximum 63 m3/hr of storm water will be generated.
	Size of SWD:	The SWD having dimension of 0.5 m width X 1m height X 59m and 0.5 m width X 1m height X 35 m along the east & west and north boundaries of the plot respectively .
Sewage and Waste water	**Sewage generation in KLD:**	1.0125
	STP technology:	Sewage waste water will be collected in septic tank and further treated in the aeration tank of the effluent treatment plant.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Shed made up of M.S. will be demolished. The Scrap MS material will be sold out to the scrap vendor.
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	Packing boards = 10 Kg/m
	Wet waste:	NA
	Hazardous waste:	Residue & Waste = 1.25 T/M, ETP Sludge = 600 Kg/m, Spent Carbon = 604.6 Kg/m, Distillation Residue =1961.7 Kg/m, Discarded containers barrels/liners/ plastic bags/ PPE etc = 1000 nos/m, Spent solvent = 24.5 TPM
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Through local Municipal waste disposal system.
	Wet waste:	NA
	Hazardous waste:	All the Hazardous waste generated within the company premises will be disposed to CHWTSDF, Ranjangaon.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Dedicated Hazardous Waste storage area of 10 sq. m. will be provided as depicted in the project plot layout plan.
	Area for the storage of waste & other material:	Dedicated Hazardous Waste storage area of 10 sq. m. will be provided as depicted in the project plot layout plan
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.8	7.2	5.5-8.5
2	TDS	mg/l	5128	3320	<4000
3	BOD	mg/l	4500	190	<3000
4	COD	mg/l	12000	780	<6000
5	O & G	mg/l	6.6	BDL	<10

Amount of effluent generation (CMD):	14.00 CMD
Capacity of the ETP:	15 CMD
Amount of treated effluent recycled :	Nil. Effluent after treatment in ETP will be further sent to CETP.
Amount of water send to the CETP:	14.00 CMD
Membership of CETP (if require):	Company is having membership of CETP, Kurkumbh. (Kurkumbh Environment Protection co-operative Society Maryadit.

Note on ETP technology to be used	All the effluent generated within the company premises will be treated in the ETP of capacity 15 CMD comprising of Primary, Secondary & tertiary treatment. Domestic waste water will be subjected to aeration tank (Secondary treatment) of ETP. The effluent after treatment will be further sent to CETP, Kurkumbh.
Disposal of the ETP sludge	ETP sludge will be disposed off to CHWTSDF, Ranjangaon.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residue & waste	28.1	Kg/M	1.25	-	1.25	CHWTSDF /Co-processing
2	ETP Sludge	35.3	kg/M	50	550	600	CHWTSDF /Co-processing
3	Spent Carbon	28.3	Kg/M	-	604.6	604.6	CHWTSDF /Co-processing
4	Distillation Residue	20.3	Kg/M	-	1961.7	1961.7	CHWTSDF /Co-processing
5	Discarded containers barrels/liners/ plastic bags/ PPE etc	33.1	Nos./M	-	1000	1000	To the authorized recycler
6	Spent solvent	28.6	MT/M	-	24.5	24.5	To the authorized recycler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	850 kg/hour steam boiler	LDO 0.904 Kl/day	1	20	0.4	124
2	2 lakh kcal Thermic Fluid Heater	LDO 0.624 Kl/day	1	20	0.4	124
3	100 kVA Diesel Generator	High Speed Diesel – 10 l/day	2	3.0 (above roof level)	0.1	156
4	Scrubber	-	3	15m (above roof level)	0.2	30

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	0.20 KLD	1.328 KLD	1.528 KLD
2	High speed diesel	10 l/day	0	10 l/day
41.Source of Fuel		LDO : Local Supplier, High speed diesel: Local HP vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	681.45 sq. m.
	No of trees to be cut :	NA
	Number of trees to be planted :	103
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleichera oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Pongamia pinnata, Neolamarckia cadamba, Pterospermum acerifolium, Dalbergia sissoo, Pongamia pinnata
	Timeline for completion of plantation :	2 years after grant of environmental clearance

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	05	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	05	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	05	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Macaranga peltata	Chandwar	05	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kusum	05	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	05	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	05	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	05	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	05	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	05	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	05	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainsadada	05	A native deciduous tree of forest tracts of Sahyadri ranges
13	Butea monosperma	Palash	05	A native brilliantly flowering tree abundant the Palghar District visited by large number of birds
14	Oroxylum indicum	Tetu	05	A native ornamental tree

15	Erythrina suberosa	Pangara	05	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
16	Azadirachta indica	Kadulimb	05	A native evergreen tree capable of surviving in comparatively polluted environs
17	Dalbergia sissoo	Shisham	05	A native evergreen tree attracting large number of insects
18	Trema orientalis	Ghol	05	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index
19	Pongamia pinnata	Karanj	05	A native deciduous tree well suited to intense heat and sunlight and drought tolerant
20	Neolamarckia cadamba	Kadamba	04	A native evergreen tree with tremendous blooms attracting large number of insects
21	Pterospermum acerifolium	Karnikar	04	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	50 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	184 KW
	During Operation phase (Demand load):	90 KVA
	Transformer:	184 KW
	DG set as Power back-up during operation phase:	1 x 100 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

8 nos of Solar street lights will be installed within the plot premises

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Common stack of 11 m height for 0.6 TPH Boiler and 2 Lakh Kcal/hr Thermopack, to ensure effective dispersion of pollutants. 1 no of Alkali scrubber to scrub the process emissions. 1 m stack height for D. G set of 100 KVA capacity .	Common stack of 20 meters height attached to both boiler and thermopack. Alkali scrubber of 100 CFM capacity having stack height of 15m (above roof level). 1 m stack height for D. G set of 100 KVA capacity will be upgraded to 3 meters.
Water	ETP of 2 CMD capacity comprising of Primary, Secondary and Tertiary Treatment.	Existing ETP of 2 CMD capacity will be upgraded to 15 CMD capacity for treating additional effluent load after expansion. The ETP will comprise of Primary, Secondary and Tertiary Treatment.
Noise	Acoustic enclosures have been provided to D.G Sets. Preventive maintainance of all the noise generating equipments is being done	Existing pollution control systems are sufficient for the proposed expansion. A thick green belt will be provided on the periphery of the plant premises.
Soild hazardous waste	The hazardous waste is stored in a seperate demarcated area, the recyclables are sent to authorized vendors and the rest are sent to CHWTSDF for disposal	Existing pollution control systems are sufficient for the proposed expansion

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Generation due to demolition and construction of Raw material storage area and Process area.	Installation of barriers around the construction / demolition area, sprinkling of water for dust suppression, PPE's to workers exposed to dust pollution.	0.25
2	Water Pollution due to release of untreated sewage	Sewage effluent will be collected in septic tank and further will be treated in the aeration tank of ETP.	0.1
3	Noise pollution due to operation of heavy machinery and equipment	Installation of barriers around the construction / demolition area, PPE's to workers exposed to noise pollution.	0.25

4	Construction debris and construction waste	The waste with saleable value like metal scrap will be sold off, construction debris will be utilized within the plot for leveling purpose.	0.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Upgradation of existing common stack of boiler & thermopack to 20 m height.	3	0.5
2	Water	Up gradation of existing ETP to 15 CMD capacity .	35	3
3	Noise	Development of acoustic enclosures and installation of shock absorbers & vibration absorbing pads.	1	0.5
4	Occupational Health	Purchase of PPE's and health check ups.	0.5	0.5
5	Green Belt	Development of green belt.	1.50	0.8
6	Solid Waste	Purchase of solid waste storage bags, containers.	1.50	1
7	Rain water harvesting	Provision of RWH system along with above ground collection tank of 10 CMD.	1	0.05

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
3,4 DFNB	Liquid	Enclosed shed	0.2	0.2	0.45887	Import	By air/sea and road
Morpholine	Liquid	Enclosed shed	0.2	0.2	0.30286	Local	By Road
Sodium Carbonate	Solid	Enclosed shed	0.2	0.2	0.87782	Local	By Road
Ethyl Acetate	Liquid	Enclosed shed	1.8	1.8	11.69076	Local	By Road
5% Pd/c	Solid	Enclosed shed	0.005	0.005	0.00687	Local	By Road
Hydrogen Gas	Gas	Enclosed shed	0.002	0.002	1.28763	Local	By Road
Methanol	Liquid	Enclosed shed	1.58	1.58	36.01166	Local	By Road
R-Epichlorohydrin	Liquid	Enclosed shed	0.2	0.2	0.28909	Import	By air/sea and road

DMF	Liquid	Enclosed shed	1.9	1.9	9.29326	Local	By Road
Potassium pthalimide	Solid	Enclosed shed	0.2	0.2	0.53321	Local	By Road
Ethylene Chloride	Liquid	Enclosed shed	2.5	2.5	20.25493	Local	By Road
Triphosgin	Solid	Enclosed shed	0.07	0.07	0.27367	Local	By Road
Tri Ethyl Amine	Liquid	Enclosed shed	0.2	0.2	0.75554	Local	By Road
Sodium Bicarbonate	Solid	Enclosed shed	0.025	0.025	0.02737	Local	By Road
Hydrazine Hydrate	Liquid	Enclosed shed	0.2	0.2	0.76717	Local	By Road
Activated Carbon	Solid	Enclosed shed	0.1	0.1	0.26665	Local	By Road
Methylene Chloride	Liquid	Enclosed shed	2.66	2.66	15.83067	Local	By Road
Acetic Anhydride	Liquid	Enclosed shed	0.2	0.2	0.46552	Local	By Road
Liquor Ammonia	Liquid	Enclosed shed	0.2	0.2	1.70153	Local	By Road
Thiophene Ester	Solid	Enclosed shed	0.075	0.075	0.37226	Import	By air/sea and road
Magnesium Metal	Solid	Enclosed shed	0.05	0.05	0.13401	Local	By Road
HCL	Liquid	Enclosed shed	0.35	0.35	6.86534	Local	By Road
Acetone	Liquid	Enclosed shed	0.316	0.316	0.71734	Local	By Road
Dimethyl Sulphate	Liquid	Enclosed shed	0.2	0.2	0.17705	Local	By Road
Sodium Hydroxide	Solid	Enclosed shed	0.2	0.2	1.67192	Local	By Road
Xylene	Liquid	Enclosed shed	1.76	1.76	25.88333	Local	By Road
2 Amino Pyridine	Solid	Enclosed shed	0.05	0.05	0.10833	Local	By Road
Potassium Carbonate	Solid	Enclosed shed	0.2	0.2	1.00093	Local	By Road
2 amino 5 methyl pyridine	Solid	Enclosed shed	0.1	0.1	0.2572	Local	By Road
Aluminum Chloride	Solid	Enclosed shed	0.05	0.05	0.12058	Local	By Road
4 Methyl Acetophenone	Solid	Enclosed shed	0.2	0.2	0.43724	Local	By Road
Bromine	Liquid	Enclosed shed	0.05	0.05	0.46811	Local	By Road
Toluene	Liquid	Enclosed shed	1.734	1.734	5.32891	Local	By Road
Oxalyl Chloride	Liquid	Enclosed shed	0.2	0.2	0.35185	Local	By Road
Acetic Acid	Liquid	Enclosed shed	0.175	0.175	0.6616	Local	By Road
DEG	Liquid	Enclosed shed	0.6	0.6	3.05	Local	By Road
Potassium Hydroxide	Solid	Enclosed shed	0.2	0.2	0.2879	Local	By Road
Loratadine	Solid	Enclosed shed	0.05	0.05	0.11574	Local	By Road
3 Chloromethyl 5 methyl pyridine HCL	Solid	Enclosed shed	0.05	0.05	0.06296	Local	By Road
TBAB	Solid	Enclosed shed	0.005	0.005	0.00463	Local	By Road
Potassium Dihydrogen Phosphate Fumaric Acid	Solid	Enclosed shed	0.01	0.01	0.01019	Local	By Road
Vanillin	Liquid	Enclosed shed	0.2	0.2	0.76923	Local	By Road
Pyridine	Liquid	Enclosed shed	0.2	0.2	1.04615	Local	By Road
N-1(3-cyano)	Solid	Enclosed shed	0.1	0.1	0.27174	Local	By Road
Barium Hydroxide	Solid	Enclosed shed	0.05	0.05	0.14946	Local	By Road
3- methylflavone	Solid	Enclosed shed	0.05	0.05	0.09091	Local	By Road
Piperidine Ethanol	Liquid	Enclosed shed	0.05	0.05	0.05818	Local	By Road
Thionyl Chloride	Liquid	Enclosed shed	0.2	0.2	0.07455	Local	By Road
IPA HCL	Liquid	Enclosed shed	0.2	0.2	0.21528	Local	By Road
N-1(Fluvoxamine Maleate)	Solid	Enclosed shed	0.05	0..05	0.08929	Local	By Road
PEG 400	Liquid	Enclosed shed	0.2	0.2	0.35714	Local	By Road

2- Chloroethyl Amine	Liquid	Enclosed shed	0.04	0.04	0.04464	Local	By Road
Maleic Acid	Solid	Enclosed shed	0.01	0.01	0.0125	Local	By Road
Benzapropanol	Solid	Enclosed shed	0.2	0.2	0.11765	Local	By Road
I-mercapto methyl	Solid	Enclosed shed	0.04	0.04	0.04118	Local	By Road
Dimethyl Sulfoxide	Liquid	Enclosed shed	0.2	0.2	0.51765	Local	By Road
Sodium Methoxide	Solid	Enclosed shed	0.2	0.2	0.22824	Local	By Road
Di cyclohexylamine	Liquid	Enclosed shed	0.05	0.05	0.05882	Local	By Road
Hexane	Liquid	Enclosed shed	0.2	0.2	0.37647	Local	By Road
Ethanol	Liquid	Enclosed shed	0.2	0.2	0.29176	Local	By Road
N-Heptane	Liquid	Enclosed shed	0.2	0.2	0.73882	Local	By Road
N-1(Pregabalin)	Solid	Enclosed shed	0.2	0.2	0.90909	Local	By Road
Sodium Hypochlorite	Liquid	Enclosed shed	0.05	0.05	3.16364	Local	By Road
Isopropanol	Liquid	Enclosed shed	0.4	0.4	1.84545	Local	By Road
Tert. Butyl Rosuvastatin	Liquid	Enclosed shed	0.05	0.05	0.24691	Local	By Road
Calcium Chloride	Solid	Enclosed shed	0.05	0.05	0.05926	Local	By Road
N-1(Tapentadol Hydrochloride)	Solid	Enclosed shed	0.05	0.05	0.13889	Local	By Road
2-Methyl THF	Liquid	Enclosed shed	0.2	0.2	0.25	Local	By Road
Trifloro Acetic Anhydride	Liquid	Enclosed shed	0.05	0.05	0.16111	Local	By Road
10% Pd/C	Solid	Enclosed shed	0.005	0.005	0.01667	Local	By Road
IPA	Liquid	Enclosed shed	0.4	0.4	1.83333	Local	By Road
3-CMA	Solid	Enclosed shed	0.2	0.2	0.8	Local	By Road
OCBA	Solid	Enclosed shed	0.5	0.5	1.68	Local	By Road
Copper Powder	Solid	Enclosed shed	0.005	0.005	0.016	Local	By Road
Fumaric Acid	Solid	Enclosed shed	0.025	0.025	0.03333	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	75.0 Sq.m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP has obtained CETP permission for discharge of effluent.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.

Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 90 kVA which will be supplied by MSEDCL. PP proposes one DG set with capacity of 100 KVA.
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 3.50 Lakh EMP cost during construction phase, Rs. 42.50 Lakhs as capital cost and Rs. 6.35 Lakhs and recurring cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 during 156th meeting of SEAC-1 held on 05.10.2018 wherein ToR was granted to the PP for the preparation of EIA /EMP report.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

PP submitted EIA/EMP report for appraisal in 165th meeting held on 04.05.2019 wherein the proposal was deferred till submission of complinace of following points.

1. PP to carry out Life Cycle Analysis of all the products and submit their plan to reduce identified impacts.

2. PP to include all the processes, activities in the HAZOP and submit revised HAZOP reports along with recommendations and proposed safety measures.

3. PP to submit details of socioeconomic impact report along with identified areas for improvement and plan to implement the same.

4. PP to submit structural stability certificate of existing units on site with respect to the proposed expansion.

5. PP to submit point wise compliance of standard ToR points.

6. PP to prepare and submit CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

7. PP to include all above points in the EIA/EMP report and submit revised EIA/EMP reports.

Now PP submitted compliance of above points.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to the following conditions.

Specific Conditions by SEAC:

1) PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
2) PP to prepare all safety training module in Marathi language so as to increase its effectiveness.
3) PP to include water and carbon foot print in the Environmental Monitoring Plan.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 4)

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Environmental Clearance for Proposed Basalt Stone Quarry (Minor Mineral Project) of Shri Mohan Madhav Gava at Gat No. 74, 75(Part) , 76(Part) , 80(Part) , 81(Part) , 84(Part), Talavali tarf Satkor, Vikramgad, Palghar District, Maharashtra. (Total Plot Area 2.18 Ha)

Is a Violation Case: No

1.Name of Project	Mohan Madhav Gava
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mohan Madhav Gava
4.Name of Consultant	Enviro Resources
5.Type of project	Project is falling under jurisdiction of Group Grampanchayat: Chabke- Talavali
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Gat No: 74, 75(Part), 76(Part), 80(Part), 81(Part), 84(Part)
9.Taluka	Vikramgad
10.Village	Village Talavali tarf Satkor,
Correspondence Name:	Mohan Madhav Gava
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	Talavali Tarf Satkor
City:	Vikramgad, Palghar
11.Whether in Corporation / Municipal / other area	Other Area (Project land is falling under jurisdiction of Grampanchayat)
12.IOD/IOA/Concession/Plan Approval Number	Since it is Basalt Stone Mining Project, Mining Plan has been approved by DGM, Kolhapur as per provision of Maharashtra Minor Mineral Extraction Rules, 2013
	IOD/IOA/Concession/Plan Approval Number: Mining Plan Approval No MIN-Adm/599 /2018/1301 dated 26th November 2018
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NOC from Grampanchayat is received on 10.09.2018
15.Total Plot Area (sq. m.)	21800 Sq.m. (2.18 Ha.)
16.Deductions	0
17.Net Plot area	21800 Sq.m. (2.18 Ha.)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 26-04-2019
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	3000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Basalt Stone (Stone Metal)	0	20025	20025

32.Total Water Requirement

Dry season:	**Source of water**	Water Tankers
	Fresh water (CMD):	7.80
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	7.80
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	0.5	0.5	0	0.1	0.1	0	0.4	0.4
Industrial Process	0	6.70	6.70	0	6.70	6.70	0	0	0
Gardening	0	3.88	3.88	0	3.88	3.88	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Approx 10 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the area is from East to West within the Project Site. The runoff will be maintained by providing garland drain around the quarry boundary to maintain natural pattern.
	Quantity of storm water:	Around 4.77 m3/hr of storm water will be generated within the lease area
	Size of SWD:	The runoff will be connected to be garland drain
Sewage and Waste water	**Sewage generation in KLD:**	0.4 KLD
	STP technology:	Not Applicable; Septic Tank Followed by Soak pits will be provided
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	0.50 Lacs
	Budgetary allocation (O & M cost):	0.15 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	The overburden of 54288 tons will be generated during proposed quarry operation of 5 years

Mode of Disposal of waste:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Overburden from mining operation will be utilized for development and maintenance of Internal Road, greenbelt and for filling of empty pits during course of mine closure
Area requirement:	**Location(s):**	Overburden will be stored along the lease boundary, close to greenbelt area.
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Amount of effluent generation (CMD):	Not Applicable
Capacity of the ETP:	Not Applicable
Amount of treated effluent recycled :	Not Applicable
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Not Applicable
Disposal of the ETP sludge	Not Applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not Applicable	10/ Liter/day	10/ Liter/day

41.Source of Fuel	Local
42.Mode of Transportation of fuel to site	Not Applicable

43.Green Belt Development	**Total RG area :**	7747 Sq.m. (0.77 Ha)
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	97
	List of proposed native trees :	Neem, Mango, Sagon, Bargad, Sheesham, Peepal
	Timeline for completion of plantation :	Plantation will be done after grant of EC and Mining lease

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	16	Tolerant to SO2
2	Mangifera indica	Mango	16	Tolerant to Dust control
3	Tectona grandis	Sagon	16	Tolerant to Dust control
4	Ficus benghalensis	Bargad	16	Tolerant to Dust control
5	Dalbergia sisoo	Sheesham	16	Dust particles absorbance
6	Ficus religiosa	Peepal	17	Dust particles absorbance
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Not Applicable
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	Not Applicable
	During Operation phase (Demand load):	Not Applicable
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Not Applicable
	Fuel used:	Not Applicable
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Not Applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not Applicable	Not Applicable

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Dust generation due to internal vehicular movement	Not Applicable	Sprinkling of water will be done to to avoid dust nuisance
PM generation due to drilling and blasting operation	Not Applicable	Sprinkling of water will be done to to avoid dust nuisance
Emissions from Vehicles	Not Applicable	PUC certified vehicles will be used
Noise generation	Not Applicable	PPEs will be provided for workers, maintenance of equipment's will be done to avoid higher level

Water/ soil pollution due to direct discharge of sewage water on land	Not Applicable	Septic tank followed by soak pits will be provided

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable	Not Applicable	Not Applicable

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Dust suppression system, Water Sprinklers, Provision of Tarpaulin, PUC for vehicles	0.0	5.70
2	Water Environment	on-site temporary sanitation facilities & septic tank followed by soak pit	0.50	0.15
3	Noise Environment	Maintenance of Vehicle and machineries	0.0	0.20
4	Soil Environment	Construction and & Maintenance of Garland to avoid soil erosion during monsoon period	0.35	0.14
5	Environment Monitoring & Management	Monitoring of AAQ & Ground Water	MoEF or NABL Accredited Laboratory	0.50
6	Occupational Health & Safety	Provision of new PPEs for workers, Safety training for workers, Periodic Medical Checkup, First Aid	0.50	0.19
7	Green Belt	Green Belt development and its maintenance	0.24	0.29
8	Roads	development & Maintenance of access road	0.80	0.32
9	Mine Closure	Implementation of Mine closure plan	1.09	0.0

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	1 (a) Category B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for prior Environment Clearance under category 1(a)B2 of the EIA Notification,2006 , as amended from time to time for the stone quarry having area of 2.18 ha. at Talavali, tarf Satkor, Vikramgarh Gut No. 74, 75 (p), 76 (p), 80 (p), 81 (p), 84 (p) , Taluka Pen, District Palghar.

The proposal was earlier considered in the 165th meeting of SEAC-1 held on 08.05.2019 wherein PP requested to postpone the case.

DECISION OF SEAC

PP, DMO and Consultant were present for the meeting.

During deliberations following points were obsrved

1. It was observed from the google image that, excavation was already carried out on site for which PP was not able to give proper justification. Hence, DMO is directed to conduct site inspection and carry out investigation whether the excavation/mining on site is carried out with requisite permission from the Competent Authority. DMO shall submit investigation report through the District Collector/ Additional Collector.

2.DMO to submit status of cluster formation in the proposed mine area.

3. PP to submit details of exisitng habitation, roads, dams, canals, rivers in the vicinity of the proposed quarry area with their distances.

4. PP to submit itemwise expenses in the revised EMP.

In view of above, SEAC-1 decided to defer the proposal till submission of compliance of above points.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Basalt stone quarry of M/s Balaji Stone Traders & Co., located at the survey No. 141 Part, 143,144 Part & 145 Part in village Musarne, Taluka Wada, District Palghar, Maharashtra

Is a Violation Case: No

1.Name of Project	M/s Balaji Stone Traders & Co.
2.Type of institution	Private
3.Name of Project Proponent	Shri. Nagesh Shivraj Itkar
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Others - Basalt Stone Mining
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Survey No. 141 Part, 143,144 Part & 145 Part
9.Taluka	Wada
10.Village	Musarne
Correspondence Name:	Shri. Nagesh Shivraj Itkar
Room Number:	B-1203
Floor:	--
Building Name:	Oberoi Gardens
Road/Street Name:	--
Locality:	Thakur Village
City:	Kandivali East
11.Whether in Corporation / Municipal / other area	Other. Gram Panchayat Musarne
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 49900
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	49900
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 24-10-2016
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	9500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Not applicable
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Basalt Stone	--	8000	8000

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	--	0.4	0.4	--	0.04	0.04	--	0.36	0.36
Industrial Process	--	4.6	4.6	--	4.6	4.6	--	0	0
Gardening	--	11.42	11.42	--	11.42	11.42	--	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	0.50 to 14.60 m.bgl
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable

35.Storm water drainage	**Natural water drainage pattern:**	The slope of the area is towards east. The run-off will be maintained by providing garland drains around the quarry boundary to maintain the natural pattern.
	Quantity of storm water:	Around 1122.75 m3/hr of storm water will be generated within the lease area.
	Size of SWD:	The runoff will be connected to garland drains
Sewage and Waste water	**Sewage generation in KLD:**	0.36 KLD
	STP technology:	Bio Toilets will be provided.
	Capacity of STP (CMD):	1 no. of Bio Toilet will be provided
	Location & area of the STP:	Within Lease Area
	Budgetary allocation (Capital cost):	40000
	Budgetary allocation (O & M cost):	10000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Overburden generated will be stored in the designated area within lease boundary. The overburden will be used for backfilling the quarry pit at the time of mine closure.
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Overburden will be backfilled in the mine pit area.
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable
41.Source of Fuel		Not Applicable		
42.Mode of Transportation of fuel to site		Not Applicable		

43.Green Belt Development	**Total RG area :**	0.88 Ha
	No of trees to be cut :	Nil
	Number of trees to be planted :	Around Lease Area = 1320 nos, Around Haul Road = 306 nos
	List of proposed native trees :	Mentioned in below table.
	Timeline for completion of plantation :	5 Years

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygiumcumini	Jambul	432	Deep rooted tree and good for pollution abatement
2	Mangifera indica	Mango	330	Deep rooted tree and good for pollution abatement

3	Delonixregia	Gulmohar	432	Deep rooted tree and good for pollution abatement
4	Azadarichta indica	Neem	432	Deep rooted tree and good for pollution abatement
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Not Applicable
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	Not Applicable
	During Operation phase (Demand load):	Not Applicable
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Not Applicable
	Fuel used:	Not Applicable
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Not Applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not Applicable	Not Applicable

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Dust Pollution	--	Sprinkling will be done on the haul roads. Mist spraying will be done to keep the stone wet to prevent escape of fugitive emissions. A thick green belt will be maintained around the lease area and on both sides of the haul roads.
Noise Pollution	--	A thick green belt will be maintained around the lease area and on both sides of the haul roads. Appropriate PPE's like ear muffs and ear plugs will be provided to workers exposed to high frequency noise.

Solid waste pollution	--	The overburden will be used for green belt development, surplus will be backfilled in the pit and afforestation will be done.
Sewage Pollution	--	Bio Toilet will be provided

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not applicable

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable	Not Applicable	Not Applicable

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution	Sprinkling of water on quarry and haul roads	--	1.0
2	Air Pollution & Noise Pollution	Thick green belt development	1.5	0.2
3	Reclamation of pit area	Afforestation will be done in the pit area	1.0	0.2
4	Sewage Pollution	Bio Toilet will be provided	0.4	0.1

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 meters
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Schedule 1 (a),Category – B2
	Court cases pending if any	Nil
	Other Relevant Informations	Nil
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable

Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for prior Environment Clearance under category 1(a)B2 of the EIA Notification,2006 , as amended from time to time for the stone quarry having area of 4.99 ha at Musrane S. No. 143,144,145(p) , Taluka Wada, District Palghar.

The proposal was considered in the 165th meeting of SEAC-1 held on 04.05.2019 wherein following decision was taken,

"During deliberations, it was observed that, PP has not submitted District Survey Report (DSR) along with the proposal.

In view of above, SEAC-1 decided to defer the proposal till submisison of all requisite documents. Concerned District Mining Office shall reamin present at the time of appraisal."

The proposal was considered in the 165th meeting of SEAC-1 held on 04.05.2019 wherein PP remained absent.

DECISION OF SEAC

PP, DMO and Consultant were present for the meeting.

During deliberations it was observed that, PP has not submitted detaield information on following points,

1. PP to correct consolidated statement (CS) and ensure uniform information in the Form-1M, PFR,CS and presentation.

2. PP to include the their name, propsoed quarry land locations and its area in the DSR and submit revised copy of DSR.

3. It was observed from the google image that, excavation was already carried out on site for which PP was not able to give proper justification. Hence, DMO is directed to conduct site inspection and carry out investigation whether the excavation/mining on site is carried out with requisite permission from the Competent Authority. DMO shall submit investigation report through the District Collector/ Additional Collector.

4. PP to submits documents related to the registration of the company and record of rights of the proposed mining site in their favour.

5. PP to submit revised impact and mitigation measures.

7. PP to submit itemwise cost of expenses in the revised EMP.

In view of above, SEAC-1 decided to defer the proposal till submission of complinace of above points.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 4)

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Environmental Clearance for API manufacturing facility of M/s. USV Pvt. Ltd. at Plot no - N-35, Additional Ambernath MIDC Area, Ambernath (E), Dist. Thane, Maharashtra, India. PIN: 421501

Is a Violation Case: No

1.Name of Project	M/s USV Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr Bhalchandra N Katkar
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	API manufacturing industry (Synthetic Organic Chemicals & Intermediates manufacturing unit), Schedule 5(f), Category B-1 under EIA notification 2006.
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable. It is a New Project
8.Location of the project	Plot no - N-35, Additional Ambernath MIDC
9.Taluka	Ambernath
10.Village	Additional Ambernath MIDC Area
Correspondence Name:	Mr. Bhalchandra N Katkar
Room Number:	-
Floor:	-
Building Name:	M/s. USV Pvt. Ltd.
Road/Street Name:	Arvind Vitthal Gandhi Chowk, BSD Marg
Locality:	Govandi
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Additional Ambernath MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 10863
13.Note on the initiated work (If applicable)	NONE
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	19729
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 10863
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 15-02-2019
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	740900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
2	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Ambernath Fire Station - 10 meters
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 meters
29.Existing structure (s) if any	Plant Building, Admin, Utility Building, Q.A and Q.C building, ETP area, Electric sub-station.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Glimepiride	--	0.375	0.375
2	Glipizide	--	1.35	1.35
3	AC Pentadiene	--	0.72	0.72
4	AC Crotonaldehyde	--	0.315	0.315
5	Chloro Atovaquone	--	1.125	1.125
6	Dola Tricyclic Alcohol	--	0.075	0.075
7	Dabigartan exilate mesylate	--	2.8	2.8
8	Other intermediates and bulk drugs (Anti – Diabetic, Cardio vascular, Anti – hypertensive, Anti – inflammatory, Anti – constipation, Peptides)	--	6.5	6.5

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Additional Ambernath
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	--	35	35	--	7	7	--	28	28
Industrial Process	--	154	154	--	0	0	--	154	154
Cooling tower & thermopack	--	341	341 (105 CMD Condensate recycled from boiler)	--	171	171	--	65	65
Gardening	--	20	20	--	20	20	--	--	--

Fresh water requirement	--	550	550 (105 CMD Condensate recycled from boiler)	--	198	198	--	247	247

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 m below ground level
	Size and no of RWH tank(s) and Quantity:	RWH Tank of 10 CMD capacity
	Location of the RWH tank(s):	Near Office Building
	Quantity of recharge pits:	4 nos.
	Size of recharge pits :	2 m x 3m x 3 m
	Budgetary allocation (Capital cost) :	Rs 600000
	Budgetary allocation (O & M cost) :	Rs 100000
	Details of UGT tanks if any :	None
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the land is towards west having a maximum contour difference of 3m.
	Quantity of storm water:	2219.51 m3/hr
	Size of SWD:	Width 1 meters : Depth 0.8 meters
Sewage and Waste water	**Sewage generation in KLD:**	28 KLD
	STP technology:	Sewage effluent will be treated in Aeration tank of ETP .
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction wastes: There will be generation of construction wastes such as scraps, excavated soil, used cement bags, iron / steel scrap and card boards accounting to 200 Tons.
	Disposal of the construction waste debris:	Disposal of Construction waste: Wastes generated during construction activity will be disposed off through local waste disposal system
Waste generation in the operation Phase:	**Dry waste:**	M.S Scrap – 20 MT/A, Wooden Pallets – 6 MT/A, Paper waste – 6 MT/A
	Wet waste:	Wet waste will be disposed through Local Municipal Waste Disposal System.
	Hazardous waste:	Mentioned at Serial no - 45
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Disposed through approved vendors
	Wet waste:	Disposed through Local Municipal Waste Disposal System.
	Hazardous waste:	The recyclable / reprocessable waste will be sent to authorized recyclers and the rest will be sent to CHWTSDF.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	108 sq. mtr.
	Area for machinery:	N.A.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 3000000
	O & M cost:	Rs 19600000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not Applicable	5	6.0 to 8.5	5.5 to 9.0
2	TDS	mg/l	20000	1000	2100
3	BOD	mg/l	15000	50	100
4	COD	mg/l	40000	100	250
5	O & G	mg/l	150	0.5	10

Amount of effluent generation (CMD):	247
Capacity of the ETP:	275 CMD
Amount of treated effluent recycled :	233 CMD
Amount of water send to the CETP:	It is ZLD unit
Membership of CETP (if require):	It is ZLD unit
Note on ETP technology to be used	Stream segregation as High TDS/COD and low TDS/COD, High TDS/COD stream to be sent to Stripper followed by MEE and then to ATFD. The MEE & ATFD condensate generated from process effluent will be sent to ETP with primary, secondary and tertiary treatment along with low TDS/COD effluent. The treated water will be sent to R.O plant. The R.O permeate will be used for cooling – tower make –up, and the R.O reject will be recirculated back to MEE.
Disposal of the ETP sludge	Disposed to CHWTSDF, Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent carbon	28.3	TPM	--	1.66	1.66	To CHWTSDF
2	Catalyst waste	28.2	TPM	--	0.016	0.016	To authorized re-processors / To CHWTSDF
3	Residue & Waste	28.1	TPM	--	22.0	22.0	To CHWTSDF

4	Discarded Container/Barrels/ Liners	33.1	TPM	--	10	10	To authorized re-processors / To CHWTSDF
5	ETP Sludge	35.3	TPM	--	9.0	9.0	To CHWTSDF
6	MEE Residue	37.3	TPM	--	30	30	To CHWTSDF
7	Spent oil	5.1	TPM	--	0.58	0.58	To authorized re-processors / To CHWTSDF
8	Distillation Residue	36.1	TPM	--	3	3	To authorized re-processors
9	Spent solvents	28.6	TPM	--	1240	1240	To authorized re-processors
10	Waste / residue containing oil	5.2	TPM	--	0.58	0.58	To CHWTSDF
11	Off specification product	28.4	TPM	--	2.0	2.0	To CHWTSDF
12	Date expired product	28.5	TPM	--	1.0	1.0	To CHWTSDF
13	Contaminated aromatic aliphatic or Napthalic solvents not fit for original intended use.	20.1	TPM	--	5	5	To CHWTSDF
14	Chemical containing residue arising from decontamination	34.1	TPM	--	0.833	0.833	To CHWTSDF
15	Flue gas cleaning residue	35.1	TPM	--	1.25	1.25	To CHWTSDF
16	Spent ion exchange resin containing toxic metal	35.2	TPM	--	0.041	0.041	To CHWTSDF
17	Oil and grease skimming residue	35.4	TPM	--	0.41	0.41	To CHWTSDF
18	Spent solvents	28.6	TPM	--	10	10	To CHWTSDF
19	E-waste	--	Kg/A	--	800	800	Sale to Authorized party
20	Battery waste	--	TPA	--	1	1	Sale to Authorized party
21	Non-Hazardous Waste	--	--	--	--	--	--
22	M.S. Scrap	--	MT/A	--	20	20	Sent to MPCB Authorized Vendor
23	Wooden pallet	--	MT/A	--	6	6	Sent to MPCB Authorized Vendor
24	Paper waste	--	MT/A	--	6	6	Sent to MPCB Authorized Vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler 1 (1.2 TPH)	FO/CNG	1	30	0.380	180
2	Boiler 2 (0.8 TPH)	FO/CNG	2	30	0.380	180
3	Boiler 3 (4 TPH)	FO/CNG	3	37	0.450	180

4	D.G (625 kVA)	HSD	4	6	0.150	148
5	D.G (1500 kVA)	HSD	5	30	0.300	148
6	D.G (1500 kVA) (Standby)	HSD	6	30	0.300	148
7	Scrubber (9nos).	Not applicable	(7 to 15)	5mtr from top of building	0.150	35

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	CNG or Furnace Oil	--	CNG : 8406m³/Day or FO: 9 MT/Day	CNG : 8406m³/Day or FO: 9 MT/Day
2	HSD	--	240 Lit./Hr.	240 Lit./Hr.
41.Source of Fuel		Local vendor		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	6533.01 Sq. m
	No of trees to be cut :	Nil
	Number of trees to be planted :	906
	List of proposed native trees :	Mentioned in below table.
	Timeline for completion of plantation :	June 2020.

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Butea monosperma	Palash	90	A native brilliantly flowering tree visited by large number of birds, abundant in forest tracts of Raigad district.
2	Macaranga peltata	Chandwar	90	A native tree found in abundance across the plains of Sahyadri ranges.
3	Alstonia shcolaris	Saptaparni	90	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Azadirachta indica	Neem	90	Deep rooted tree and good for pollution abatement
5	Cassia fistula	Bahava	90	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
6	Bombax ceiba	Sawar	90	A native deciduous tree with fragrant flowers attracting large number of birds and insects
7	Schleichera oleosa	Kusum	90	A native deciduous tree of forest tracts of Sahyadri ranges.
8	Terminalia paniculata	Kindal	90	A native deciduous tree of forest tracts of Sahyadri ranges.

9	Terminalia bellirica	Baheda	90	A native deciduous tree of forest tracts of Sahyadri ranges.
10	Neolamarckia cadamba	Kadamba	96	A native evergreen tree with tremendous blooms attracting large number of insects
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	N.A	N.A	N.A

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	3000 KW
	During Operation phase (Demand load):	2180 KVA
	Transformer:	Existing 1000 KVA ; Proposed 1600 KVA
	DG set as Power back-up during operation phase:	DG 1 : 625 KVA, DG 2 : 1500 KVA, DG 3 : 1500 KVA (Standby).
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Installation of Solar panels and solar lights

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Installation of solar panels within project premises	5 % power can be saved by using Solar power
2	Installation of solar lights within project premises	50 Nos. of Solar Lights will be installed.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boilers	--	Installation of new stacks of 30m, 30m and 37m height to proposed boiler of capacity 1.2 TPH, 0.8 TPH & 4.0 TPH respectively.
Scrubber	--	9 Nos. of Acid & Alkali Scrubber will be installed of capacity 2000 CFM / 3400 CMH with stack height of 5m.

DG Sets	--	Installation of new stacks of 6m, 30m and 30m height to proposed DG sets of capacity 625 KVA, 1500 KVA and 1500 KVA (Standby)
Industrial and Sewage effluent	--	ETP of 275 CMD will be installed at site. Industry will operate as ZLD unit. Stream segregation as High TDS/COD and low TDS/COD, High TDS/COD stream to be sent to Stripper followed by MEE and then to ATFD. The MEE & ATFD condensate generated from process effluent will be sent to ETP with primary, secondary and tertiary treatment along with low TDS/COD effluent. The treated water will be sent to R.O plant. The R.O permeate will be used for cooling – tower make –up, and the R.O reject will be reci
Noise	--	Provision of acoustic enclosures and installation of shock absorbers & vibration absorbing pads.
Hazardous waste	--	The hazardous waste is stored in a separate demarcated area. The recyclable / reprocessable waste will be sent to authorized recyclers and the rest will be sent to CHWTSDF.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 81023000
	O & M cost:	Rs 39886000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Sprinkling in construction phase, provision of PPE's to workers (Masks)	Rs 7.2 Lacs per annum
2	Noise	PPE's to be provided to works (ear muffs and ear plugs)	Rs 0.6 Lacs per annum

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	9 Nos. of Acid & Alkali Scrubber will be installed of capacity 2000 CFM / 3400 CMH. Installation of new stacks of 30m, 30m and 37m height to proposed boiler of capacity 1.2 TPH, 0.8 TPH & 4.0 TPH Respectively.	144	2.4
2	Water	ZLD based ETP with stripper, MEE, ATFD followed by ETP with primary, secondary and tertiary treatment with R.O plant.	550	170

3	Noise	Provision of acoustic enclosures and installation of shock absorbers & vibration absorbing pads.	9.0	0.5
4	Occupational Health	Purchase of PPE's and health checkups.	2.0	15.0
5	Green Belt	Development and maintenance of green belt.	4.23	3.46
6	Solid Waste	Membership of CHWTSDF and disposal of waste	30	196
7	Rain water harvesting	Provision of RWH system along with above ground collection tank of 10 CMD.	6	1
8	Environmental monitoring	Environmental monitoring of ambient air, workplace, stack monitoring, effluent inlet and outlet, noise, water and carbon footprint monitoring	--	6.5
9	Solar installation	Provision of Solar panels across the factory building and additional solar street lights to be considered in the plot	65	4.0

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Glimepride Sulphonamide	Solid	Warehouse	0.5	0.5	0.38	Local	By Road
Acetone	Liquid	Tankfarm area	20KL	16	98.70	Local	By Road
4-Methyl cyclohexyl isocyanate	Solid	Warehouse	0.2	0.2	0.2	Local	By Road
Potassium Carbonate, Anhydrous	Solid	Warehouse	2.5	2.5	7.20	Local	By Road
Glacial Acetic Acid	Liquid	Tankfarm area	15KL	12	22.90	Local	By Road
Caustic Soda Lye	Liquid	Tankfarm area	10KL	8	10.76	Local	By Road
Methanol	Liquid	Tankfarm area	20KL	16	84.50	Local	By Road
Ammonia gas	Gas	Warehouse	0.4	0.4	0.4	Local	By Road
Activated Charcoal	Solid	Warehouse	0.2	0.2	0.2	Local	By Road
Glipizide sulphonamide	Solid	Warehouse	1.4	1.4	1.4	Local	By Road
Dimethyl formamide	Liquid	Tankfarm area	25KL	20	19.50	Imported /Local	By Road

Alumina Neutral	Solid	Warehouse	2	2	4.10	Local	By Road
Sodium Methoxide	Solid	Warehouse	0.24	0.24	0.24	Local	By Road
Cyclohexyl Isocyanate	Liquid	Warehouse	0.3	0.3	0.60	Local	By Road
Methylene Chloride	Liquid	Tankfarm area	25KL	20	82.40	Local	By Road
Hydrochloric Acid IP	Solid	Warehouse	0.8	0.8	0.8	Local	By Road
Soda Ash	Solid	Warehouse	1.5	1.5	2.18	Local	By Road
4-methoxy-2-3-6 trimethyl	Solid	Warehouse	0.5	0.5	0.70	Local	By Road
Sodium Hydroxide (Caustic Soda)	Solid	Warehouse	0.3	0.3	0.3	Local	By Road
Hexane	Liquid	Tankfarm area	20KL	16	8.20	Local	By Road
Vinyl Magnesium Chloride	Liquid	Warehouse	1	1	2.30	Local	By Road
Toluene	Liquid	Tankfarm area	20KL	16	53.60	Local	By Road
Sodium Bicarbonate	Solid	Warehouse	0.6	0.6	0.6	Local	By Road
Pyridine	Liquid	Warehouse	0.5	0.5	0.70	Local	By Road
Aqueous hydrogen bromide (HBr)	Liquid	Warehouse	0.5	0.5	0.60	Local	By Road
Triphenyl Phosphine	Solid	Warehouse	0.5	0.5	0.70	Local	By Road
Ethyl acetate	Liquid	Tankfarm area	20KL	16	117.70	Local	By Road
DL-Tartaric acid	Solid	Warehouse	0.5	0.5	0.70	Local	By Road
N-butanol	Liquid	Warehouse	0.5	0.5	1.0	Local	By Road
P-TSA	Solid	Warehouse	0.03	0.03	0.03	Local	By Road
Sodium Chloride	Solid	Warehouse	1	1	2.60	Local	By Road
Sodium Sulfate	Solid	Warehouse	1	1	2.40	Local	By Road
THF	Liquid	Warehouse	4	4	8.40	Imported	By Road
Sodium metaperiodate	Solid	Warehouse	0.5	0.5	1.0	Local	By Road
Hyflow	Solid	Warehouse	0.2	0.2	0.2	Local	By Road
Sodium carbonate	Solid	Warehouse	1.5	1.5	2.80	Local	By Road
MTBE	Liquid	Warehouse	4	4	15.50	Imported	By Road
Di-n-butylamine	Liquid	Warehouse	0.04	0.04	0.04	Local	By Road
Propanioaldehyde	Liquid	Warehouse	0.30	0.30	0.30	Imported	By Road
Sulfuric acid	Liquid	Warehouse	0.10	0.10	0.10	Local	By Road
Oxalate salt of Dola protected Alcohol	Solid	Warehouse	0.40	0.40	0.40	Local	By Road
N-Hexane	Liquid	Warehouse	2	2	4.10	Imported	By Road
RMK	Solid	Warehouse	0.1	0.1	0.1	Local	By Road
IPA	Liquid	Tankfarm area	15KL	12	28.40	Local	By Road
Sulfolane	Liquid	Warehouse	2.5	2.5	4.30	Local	By Road
AT Acid	Solid	Warehouse	1	1	1.50	Local	By Road
Acetonitrile	Liquid	Warehouse	3	3	5.0	Local	By Road
2-Cl-Naphthoquinone	Solid	Warehouse	1	1	1.50	Local	By Road
Silver nitrate	Solid	Warehouse	0.3	0.3	0.3	Local	By Road
Ammonium persulfate	Solid	Warehouse	2.5	2.5	3.60	Local	By Road
Dabi Dichloro compound	Solid	Warehouse	5.24	5.24	5.24	Local	By Road
Sodium Acetate	Solid	Warehouse	1.5	1.5	2.10	Local	By Road
Tetrabutyl ammonium	Solid	Warehouse	1	1	1.30	Local	By Road
Dabi Benzimidine	Solid	Warehouse	2.2	2.2	2.2	Local	By Road

Sodium borohydride	Solid	Warehouse	0.2	0.2	0.40	Local	By Road
Potassium Carbonate	Solid	Warehouse	2.5	2.5	6.80	Local	By Road
n-hexyl chloroformate	Liquid	Warehouse	1	1	1.40	Local	By Road
Cyclo Hexane	Liquid	Tankfarm area	20KL	16	30.20	Local	By Road
Norit SA2 Charcoal	Solid	Warehouse	0.3	0.3	0.3	Imported	By Road
Methane sulfonic Acid	Liquid	Warehouse	0.4	0.4	0.4	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2413 Sq.m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Schedule 5 (f),Category - B-1
	Court cases pending if any	Nil
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge, PP proposes scrubber to the process vents.As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge Effluent Treatment Plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 2180 kVA which will be supplied by MSEDCL. PP proposes one DG set with capacity of 625 KVA,one DG set with capacity 1500 kVA and other DG set as stand by with capacity 1500 kVA.
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 7.80 Lakh EMP cost during construction phase, Rs. 721.00 Lakhs as capital cost and Rs. 614.40 Lakhs and recurring cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 163rd meeting of SEAC-1 held on 13.03.2019 wherein the ToR granted to the PP along with following additonal points,

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

PP to submit their plan to utilize 2% CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

1. PP to submit certificate of incorporation of the company, list of board of directors and memorandum of articles.

2. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

3. PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations.

4. PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.

5. As the plant is closed from many years PP to include detailed demolition plan in the EIA report with respect to the safety of the workers engaged in the demolition activity along with proposed mitigation measures.

6. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

7. PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.

8. PP to carry out HAZOP and QRA and submit disaster management plan.

9. PP to include details of generation and disposal of hazardous waste including by products as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.

10. PP to include water and carbon foot print monitoring in the EMP.

11. PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

12. PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

Now PP submitted EIA/EMP reprot for appraisal.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environemntal Clearance to the SEIAA subject to the following conditions.

Specific Conditions by SEAC:

1) PP to provide scrubbers to all process vents so as to ensure no emissions are released into the atmosphere without treatment.
2) PP to prepare all safety related SOP's and training modules in the Marathi language so as to increase its effectiveness.
3) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018
4) PP to include water and carbon foot print in the Environmental Monitoring Plan.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Modernization of existing 15 MW (1 x 10 MW + 1 x 5 MW) Captive Power Plant and installation of new 1 x 16 MW WHRB based Captive Power Plant.

Is a Violation Case: No

1.Name of Project	Modernization of existing 15 MW (1 x 10 MW + 1 x 5 MW) Captive Power Plant and installation of new 1 x 16 MW WHRB based Captive Power Plant.
2.Type of institution	Private
3.Name of Project Proponent	Manikgarh Cement
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization / New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	167,160,159,156, Post – Gadchandur, Korpana Chandrapur
9.Taluka	Korpana
10.Village	Post – Gadchandur
11.Whether in Corporation / Municipal / other area	Gadchandur Nagar Parishad
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 2000
13.Note on the initiated work (If applicable)	Not Applicable, work will be initiated after receipt of Environmental Clearance and Consent to Establish
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	269.13 Ha. Out of this 4.65 Ha will be used for WHRB CPP
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 2000
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	1400000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Turbine Building	G + 2	20 m

23.Number of tenants and shops	Not applicable

24.Number of expected residents / users	About 60 no. users including workers & staff for modernization and new unit
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Not Applicable
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal road of sufficient width are constructed for Fire Tender in case of emergency.
29.Existing structure (s) if any	Existing 15 MW Captive Power Plant & ESP
30.Details of the demolition with disposal (If applicable)	NIL

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Power Plant	--	1 x 10 MW + 1 x 5 MW Coal Based	1 x 10 MW + 1 x 5 MW Coal Based
2	Power Plant	--	1 x 16 MW WHRB Based	1 x 16 MW WHRB Based

32.Total Water Requirement

Dry season:	**Source of water**	Amal Nala Dam Wardha River
	Fresh water (CMD):	420
	Recycled water - Flushing (CMD):	1
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	700
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Amal Nala Dam Wardha River
	Fresh water (CMD):	420
	Recycled water - Flushing (CMD):	1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	695
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	3	3	0	0.6	0.6	0	2.4	2.4
Industrial Process	0	110	110	0	10	10	0	90	90
Cooling tower & thermopack	0	587	587	0	410	410	0	177	177
Gardening	0	5	5	0	5	5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Will be elaborated in final EIA report
	Size and no of RWH tank(s) and Quantity:	The rain water harvesting is already done in the existing Cement Plant and the detailed study of the same will be given in the EIA Report.
	Location of the RWH tank(s):	Will be elaborated in final EIA report
	Quantity of recharge pits:	Will be elaborated in final EIA report
	Size of recharge pits :	Will be elaborated in final EIA report
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	The UGT tanks are already constructed in the existing plant for the storage of water required for fire fighting services.

35.Storm water drainage	**Natural water drainage pattern:**	The storm water drains are already constructed alongwith the boundary of the existing Cement Plant.
	Quantity of storm water:	Will be elaborated in final EIA report
	Size of SWD:	Will be elaborated in final EIA report
Sewage and Waste water	**Sewage generation in KLD:**	2.4 KLD
	STP technology:	MBBR (Extended aeration system)
	Capacity of STP (CMD):	1no. 2300 CMD
	Location & area of the STP:	Within the plant premises
	Budgetary allocation (Capital cost):	65.00 Lakhs
	Budgetary allocation (O & M cost):	12.00 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	There is no major civil construction to be carried out for this project.
Waste generation in the operation Phase:	**Dry waste:**	Fly Ash – 178.5 TPD
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Fly Ash will be sent to the existing Cement Plant by Dense Phase Pneumatic Conveyor System.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be Used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	will be within the plant site
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	O & M cost:	--
37.Effluent Charecterestics		

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		268			
Capacity of the ETP:		268			
Amount of treated effluent recycled :		268			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	15 MW CPP	5.1	lit/day	--	1.0	1.0	Authorized recycler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	CPP	425 mt/day	1	66 m	1.7 m	140 degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	--	425 mt/day	425 mt/day
41.Source of Fuel		WCL		
42.Mode of Transportation of fuel to site		Tarpaulin Covered Trucks/Rail		

43.Green Belt Development	**Total RG area :**	90000 sq mt
	No of trees to be cut :	0
	Number of trees to be planted :	5000
	List of proposed native trees :	Acasia, Neem, Gulmohar, Karanj, Peltaphorum, Tikoma
	Timeline for completion of plantation :	2017-2018

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Acasia	Acasia	900	semi-deciduous
2	Azardirachta indica	Neem	750	deciduous
3	Delonix Regia	Gulmohar	750	deciduous
4	Millettia pinnata	Karanj	800	deciduous
5	Peltophorum africanum	Peltaphorum	900	semi-deciduous

6	Tecoma stans	Tikoma	900	deciduous
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	CPP
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	3.1 MW
	Transformer:	NA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
NA	NA	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	The efficiency of the existing ESP will be increased	200	10
2	Water Pollution Control	ETP	25	5
3	Solid Waste Management	Dense Phase Pneumatic Conveyor System	20	05
4	Green Belt	Plantation	05	0.50
5	Environmental Monitoring	Monitoring of Air, Water, Noise Quality	100	10

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
H2SO4	--	Plant	30 MT	20 MT	3 MT	Authorized Dealer	Tanker
HCL	--	Plant	15 MT	12 MT	4 MT		Tanker

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	The parking area being used for Existing Cement Plant will be utilized
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	1 (d)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes ETP for the treatment of waste water. The treated waste water will be reused for sprinkling on roads, dust separation and sprinkling on coal within the premises. No waste water will be released outside the plot.
Drainage pattern of the project	PP considered the contour levels while designing the drainage.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits.

Solid Waste Management	PP proposes to sale hazardous waste to the Authorized recycler
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 3.1 MW, which will be supplied by Captive Power Plant.
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads with nine meter wide turning radius.
Landscape Plan	PP proposes 33% green belt within the premises.
Disaster management system and risk assessment	PP prepared On site emergency plan to handle the emergency situations.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs. 350.00 Lakh as capital cost and Rs. 30.50 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR isused by MoEF & CC published in April, 2015 during 140th meeting of SEAC-1 held on 20.07.2017 wherein ToR was granted along with additonal points.

PP has obtianed earleir EC vide No. SEAC-2016/CR-242/TC-1 dated 12.05.2017. PP has obtained certified compliance from Regional Office of MoEF&CC , Nagpur.

Public Hearing is applicable as per EIA Notification, 2006.

Public Hearing was conducted on 04.07.2018.

The proposal was considered in the 159th A meeting held on 01.02.2019 wherein the proposal was deferred till submission of complinace of following points,

1. PP to submit revised compliance of point No. 1 of additional ToR grnated on 20.07.2017.

2. PP to submit point wise compliance of issues raised during the Public Consultation process indicating propsed action plan along with cost and timelines.

3. PP to submit details of CER plan prepared in consultation with District Authority as per OM dated 01.05.2018.

4. PP to submit undertaking for construction of cement road connectiong plant site and highway to ensure smooth and safe transportation of vehicles. PP to ensure construction of road with specifications so as to bear adequate load capacity of the transporting vehicles.

5. PP to plant doemstic/ indigenous tree species in propsed green belt development. PP to submit list of trees.

Now PP submitted compliance of above points.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subejct to the following conditions.

Specific Conditions by SEAC:

1) PP to implement CER plan as approved by the District Collector, Chandrapur
2) PP to plant indigenous trees specifically neem, peepal, baniyan etc.
3) PP to provide adequate blanketing at pre heater ducting, ESP ducting during process/operations so as to reduce heat loss and ensure maximum recovery of heat.
4) PP to include water and carbon foot print in the Environmental Monitoring Plan.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 4)

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Captive coal based Power Plant 25 MW at Plot No A-23, Tadali Growth Centre MIDC, Tadali, District - Chandrapur, Maharashtra.

Is a Violation Case: Yes

1.Name of Project	M/s Grace Industries Limited.
2.Type of institution	Private
3.Name of Project Proponent	M/s Grace Industries Limited.
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	A-23, Tadali Growth Centre MIDC
9.Taluka	Chandrapur
10.Village	Tadali
Correspondence Name:	Mr. Ajay Agrawal
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	9, Imambada Road
Locality:	NA
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Tadali Growth Centre MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 37345.145
13.Note on the initiated work (If applicable)	The construction of 25 MW CPP is almost 80% completed and hence applied under notification dated 8th March 2018 for violation cases.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1225000 Sq.m.
16.Deductions	Not applicable
17.Net Plot area	1225000 Sq,m,
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 37345.145
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 18-11-2006
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	950000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	One Industrial shed area	Not applicable	20 m.

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 160 no. of users including workers & staff.
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Minimum 9 m. internal road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Will be minimum 9 mt.
29.Existing structure (s) if any	Yes, The construction of 25 MW CPP is almost 80% completed and hence applied at the notification dated 8 March 2018.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Captive Power Generation	00	25 MW	25 MW

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	500
	Recycled water - Flushing (CMD):	A package type STP will be installed
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	500
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	500
	Recycled water - Flushing (CMD):	A package type STP will be installed
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	500
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	3.5	3.5	0	1.5	1.5	0	2	2
Industrial Process	0	500	500	0	450	450	0	50	50

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon 10-15 m bgl. and post monsoon 5-10 m.
	Size and no of RWH tank(s) and Quantity:	The rainwater collected will be used for recharging of ground water level.
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	2 m X 2 m X 3 m Depth
	Budgetary allocation (Capital cost) :	Rs.1,20,000/-
	Budgetary allocation (O & M cost) :	Rs. 10000/- per annum.
	Details of UGT tanks if any :	Under ground water tank will be provided for fire fighting as per norms
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain will be constructed around the plant area
	Quantity of storm water:	89650 cum.
	Size of SWD:	900 mm - 900 mm
Sewage and Waste water	**Sewage generation in KLD:**	18.6 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 No. and 20 KLD capacity
	Location & area of the STP:	Within the Plot Area
	Budgetary allocation (Capital cost):	Rs. 40 Lacs
	Budgetary allocation (O & M cost):	Rs. 4.0 Lacs/ Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	Will be utilized in making of internal road
Waste generation in the operation Phase:	**Dry waste:**	Fly Ash
	Wet waste:	NA
	Hazardous waste:	Used Oil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Yes
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Fly Ash will used for brick manufacturing.
	Wet waste:	NA
	Hazardous waste:	Used oil will be give to authorized recycling vendors
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Within the Plant
	Area for the storage of waste & other material:	About 165 sq. m. will be reserved for fly ash
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		50 KLD			
Capacity of the ETP:		50 KLD			
Amount of treated effluent recycled :		50 KLD			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Settling tank and neutralization tank will be constructed for treatment of waste water			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil	NA	NA	NA	NA	NA	Secondary use and sale to recyclers

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	AFBC Boiler	Coal - 18000 TPM and Dolochar- 3000 TPM	1	90	6	100 degree Centigrade

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	0	18000 TPM	18000 TPM
2	Dolochar	0	3000 TPM	3000 TPM
41.Source of Fuel		Coal from WCL and Dolochar from inhouse sponge iron plant.		

42.Mode of Transportation of fuel to site	Coal by tarpaulin covered trucks.

43.Green Belt Development	**Total RG area :**	34.33 % of the total plot area. 42065.75 Sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	6720 out of which 2200 trees are planted and 1800 trees are survived balance will be planted in phases
	List of proposed native trees :	Ashoka, Karanj, Mango, Guava, Neem
	Timeline for completion of plantation :	NA

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca asoca	Ashoka	1500	Deciduous, Shady tree
2	Millettia pinnata	Karanj	1120	Semi-Deciduous, Shady green, good for roadside plantation.
3	Mangifera Indica	Mango	1300	Semi-Deciduous, large tree, Fruit bearing Shady tree, long lived tree.
4	Psidium guajava	Guava	1300	Semi-Deciduous, Fruit bearing Shady tree
5	Azadirachta indica	Neem	1500	Deciduous, Large tree, good for roadside plantation.
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Captive generation and MSEDCL.
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2.5 MW
	During Operation phase (Demand load):	2 MW
	Transformer:	NA
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

All internal Street Lights will be solar powered.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Operation of CPP will result in source and fugitive emission.	90 mt. stack with ESP.	Already installed.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution Control	Particulate Matter	Rs. 1.00 Lacs

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Stack 90 Mt, ESP	Rs. 300 Lac	Rs. 30 Lac

2	Water Pollution Control	STP & ETP	Rs. 40 Lac and Rs. 20 Lac	Rs. 4 lac and Rs. 1 Lac
3	Solid Waste Management	Handling and Disposing	Rs. 20 lac	Rs. 3 lac
4	Green Belt	Plantation	Rs. 2 Lac	Rs. 0.3 Lac
5	Environmental Monitoring	Air quality , Water and wastewater quality; Noise levels; Soil quality	Rs.50 lacs CAAQMS + Online stack monitoring installed	Rs. 5 Lac

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The said plot is in MIDC area. The width of front of MIDC road is 45 Mtr.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	16084.25 sqmt
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	30 to 35 trucks/day will be operated after commission of proposed unit for transportation of raw material.
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Distance from existing boundary of Tadoba Wildlife Sanctuary 23.5 km. Distance from proposed boundary is Tadoba Wildlife Sanctuary as per Notification dated 13th July 2018 is 13.5 km
	Category as per schedule of EIA Notification sheet	1(d)
	Court cases pending if any	No
	Other Relevant Informations	Public Hearing was conducted on 7th December 2018.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement. PP proposes 100% recycle/reuse of treated effluent.
Waste Water Treatment	PP to provide STP for the treatment of domestic sewage.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 2 MW which will be supplied by CPP &MSEDCL. PP proposes one DG set with capacity of 500 KVA
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP has prepared emergency plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes EMP cost of Rs. 1.00 Lakhs during construction phase, Rs. 432.00 Lakhs as capital cost and Rs. 43.30 Lakhs as recurring cost of EMP.
Any other issues related to environmental sustainability	PP shall deposit Bank Guarantee of Rs. 1.95 Cr. with the MPCB against implementation of remedial plan and natural & community resource augmentation plan.

Brief information of the project by SEAC

The said proposal was considered by the EAC, MOEF&CC in their 2nd meeting held on 15-16 January, 2018 and noted as below.

The PP, after taking over the plant in the year 2008, applied for EC to SEAC/SEIAA on 15th January, 2009 for 25 MW CPP (under construction in 2008). The proposal was recommended by the SEAC in its meeting held on 18th November, 2009 for grant of EC. However, the same could not be taken up due to moratorium imposed on Chandrapur Industrial Area (designated as Critically Polluted Area) allowing no scope for any expansion, modernization or value addition.

Based on recommendations of SEAC, SEIAA in its meeting held on 7-8 March, 2013 decided to request the State Government of Maharashtra to recommend the case to MoEF for consideration of EC as a special case.

Subsequent to lifting of moratorium, the proposal for considedaration of ToR was submitted to the MoEF on 17th June, 2016. However on further examination of the proposal, it was noted that construction of 25 MW power plant was started on 3rd January, 2007 by the old management without prior Environment Clearance thus resulted in the violation of EIA Notification, 2006.

Public Hearing was conducted on 7th December 2018.

Now as per amended Notification issued by MoEF&CC dated 08.03.2018, PP applied for the grant of ToR to the SEIAA vide Unique ID No1178.. on 10th April, 2018 on SEIAA portal for grant of ToR as a case of violation.

The proposal was considered in 151st meeting of SEAC-1 where in the ToR was granted along with following additional points,

1. PP to submit an undertaking for not having any eco sensitive area in the radius of 5 km from proposed site.

2. PP to submit an undertaking about constructions on site and activities initiated without obtaining prior environmental clearance.

3. PP to submit details of project description, its importance and benefits. The benefits shall clearly indicate environmental, social, economic, employment potential etc.

4. PP to submit project site details (location, topo sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)

5. PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc.

6. PP to submit land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.

7. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.

8. PP to ensure existing environmental quality within 10 km radius of the project site to be assessed based on primary data generated at site and secondary data collected from various sources. One time baseline data to be generated for following environmental attributes based on site conditions.

8.1 Meteorology and Air Quality: Meteorological data like temperature, humidity, rainfall, wind direction, wind speed to be obtained as to assess the climatic trend through secondary source such as IMD, Pune.

8.2 Air Environment: (i) The monitoring stations shall be selected based on likely impact areas due to proposed activity/sensitive areas, near by habitations around the project site if any, topography, down wind and up wind directions. (ii) Eight stations to be selected for monitoring of PM2.5, PM10, SOx, NOx for one time baseline study as per CPCB guidelines for Ambient Air Quality Monitoring. (iii) Dispersion pattern to be generated to assess the existing ambient air quality of the study area around 10 km radius through ArcGLS platform.

8.3 Water Environment: (i)Grab surface ground water samples to be collected around 10 km radius parameters recommended by CPCB/IS 10500 to be analyzed to assess the physiochemical and bacteriological quality of the water. (ii) Samples to be collected one time during study period to identify the impact due to proposed project operations. (iii) Details of proposed water conservation measures to be given in the report.

8.4 Soil Environment: (i) Soil samples to be collected and analyzed for physical and chemical properties of the soil to determine the impact on the soil due to proposed activities and to determine the impact of loss of fertility from agricultural productivity point of view. (ii) Samples to be collected one time during the study period. (iii) Soil conservation measures to be given to prevent soil erosion and to utilize soil efficiency.

8.5 Land Environment: Land use and land cover analysis delineating the agricultural land, forest land, waste land, built up land, water bodies, pre and post mining land use using satellite imageries through ERDAS and ArcGIS platform.

8.6. Socio Economic Environment: (i) Secondary data to be used from source such as Census records/ data available with local offices etc. (ii) PP to collect primary data through physical survey and corelate with the available seconday data.(iii) Spatial distribution of population, occupational characteristics, literacy rate, sanitation status, availability of safe drinking water and adequate nutrition especially to the pregnant womens and children in the area etc.

8.7. Ecology and Biodiversity: (i) a detailed biological study of the area to be carried out around 10 km radius through field survey.(ii) Location of national park, sanctuaries, biosphere reserves, wild life corridors etc. if any, within 10 km radius to be mentioned. (ii) Phase wise plan of plantation to be charted clearly indicating the area to be covered under plantation and the species to be planted.

9. PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)

10. PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.

11. PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

12. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP submitted EIA/EMP report for appraisal during 164th SEAC-1 meeting held on 09.04.2019 wherein the proposal was deferred till submission of compliance of following points,

1. PP to submit detailed storm water drain calculations considering maximum rain fall intensity and submit storm water drain layout.

2. PP to include detailed area statement including area of existing buildings on the site with their dimensions.

3. PP to submit fly ash balance calculations that is quantity of generation of fly ash, quantity of flay ash proposed to be reused with its end use, quantity of fly ash remained if any and its scientific disposal mechanism.

4. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc. and proposed mitigation measures to reduce the identified impacts.

5. PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)

6. PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment. PP to refer the procedure/guidelines given by SEIAA for the identification of ecological damage.

7. PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

The proposal was again considered in the 167th meeting of SEAC-1 wherein the proposal was defrred till submission of complinace of the following points.

1. PP to submit detailed report on ecological damage assessment including construction completed onsite and other environmental attributes. The report shall indicate quantitative inference of the damage occurred to the environment with back up calculations.

2. PP to prepare the remediation plan based on the ecological damage assessed and the points given in the standard ToR issued by MoEF&CC. PP shall bifurcate each proposed remediation activity along with its cost and time line for its completion.

3. PP to submit fly ash balance calculations that is quantity of generation of fly ash, quantity of flay ash proposed to be reused with its end use, quantity of fly ash remained if any and its scientific disposal mechanism.

4. PP to prepare natural and community resource augmentation plan corresponding to the ecological damage assessed and shall bifurcate each proposed activity along with its cost and time line for its completion.

5. PP to submit details quantification of economic benefits derived due to violation along with back up calculations.

6. PP to prepare an EMP comprising of all above points along with time lines to implement proposed remediation measures etc.

7. PP to include all above in the EIA report and submit revised EIA/EMP report.

8. PP also to use approach paper issued by SEIAA for the identification of ecological damage and preparation of remediation and augmentation plan.

9. By doing above PP shall come out with exact ecological damage caused due to violation, their remediation and natural and community resource augmentation plan and cost required to execute the plan on field.

10. PP to prepare and submit CER plan made in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

Now PP submitted complinace of the above points,

DECISION OF SEAC

During deliberations, PP submitted that, they have referred the approach paper published by the SEIAA for calculation of Environmental damage, preparation of remediation and natural & community resource augmentation plan. The abstract is as below,

Sr. No	Particulars	Cost of remediation in Rs.
1	Afforestation(Plantation) 25% of Total recommended cost.	Plantation in nearby villages. Garden development in Grampanchayat and School in nearby villages. Plantation and maintenance of plants in nearby area road @ 4,87,500 for 10 villages. Total cost contributed towards air environment = 48,75,000
2	Water Environment (Water Conservation) 25% of Total recommended cost.	Awareness program on 5R (Refuse, Reduce, Reuse, Repurpose and Recycle). Construction of Sewage Treatment Plant in local school in Morwa Khutala, Tadali village. Land will be arranged by respective school.Rs:30 Lakhs Construction of Soak pit, cleaning of earthen dam and Lake, Construction of Gabion in nearby villages:15Lakhs Training for rain water harvesting and water conservation.Rs:3.75Lakhs Total cost contributed towards water environment =Rs. 48,75,000
3	Urban environment and Sanitation. 20% of Total recommended cost.	Construction of toilet blocks (total 10 Nos.) in Sakharwahi, Belsani, Ambhora, Saiwan, Chinchala and Sonegaon villages.Rs:20 Lakhs Construction Community Hall and cement chairs as per requirement of village .Rs.12 Lakhs Construction of Rainwater harvesting structure and recharge pit in School and Grampanchayat of Nearby villages.Rs:7Lakh Total cost contributed towards Urban environment and Sanitation environment =Rs. 39,00,000
4	Sewer lines and Solid waste management (20% of Total recommended cost.)	Provision of dust bin and Garbage container for separation of different category of solid waste to nearby Grampanchayat office.Rs.18Lakhs Construction of Sewer line in Chargaon, Vichoda, Kohi Kohi.Rs:15Lakhs Organic Waste Converter.Rs:6 Lakh Total cost contributed towards Urban environment and Sanitation environment =Rs. 39,00,000.
5	Urban environment(Air, Noise Pollution control and Health improvement initiative. (10% of Total recommended cost)	Arrangement of health camp. We will provide services of 2 doctors (1 male + 1 female) and basic medicines. 2 medical camps will be conducted in a year.Rs:10 Lakh. Development of Park.Rs:4.5Lakhs Distribution of PPE (Personal Protective Equipment) to farmers and labors. Rs: 5Lakhs Total cost contributed towards noise environment =Rs. 19,50,000.

PP has identified remediation cost required 1.95 Cr.

PP proposes EMP cost of Rs. 1.00 Lakhs during construction phase, Rs. 432.00 Lakhs as capital cost and Rs. 43.30 Lakhs as recurring cost of EMP.

PP shall deposit bank Gurantee of Rs. 1.95 Cr. with the MPCB.

SEAC-1 decided to recommend the proposal for prior Environment Clearance subject to the following conditions.

Specific Conditions by SEAC:

1) PP to deposit Bank Guarantee of Rs. 1.95 Cr. with the MPCB against implementation of remedial plan and natural & community resource augmentation plan.
2) PP to provide STP for the treatment of domestic sewage and ensure to meet the standards prescribed by the MPCB/CPCB.
3) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
4) PP to include water and carbon foot print in the Environmental Monitoring Plan.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 4)

SEAC Meeting number: 168 **Meeting Date** August 29, 2019

Subject: Environment Clearance for Proposed stone Mining Project "Babhulsar Stone Quarry"

Is a Violation Case: No

1.Name of Project	Proposed stone Mining Project "Babhulsar Stone Quarry"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Arjun Kale
4.Name of Consultant	M/s. SGM Enviro (I) Pvt. Ltd.
5.Type of project	Industrial - Mining
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	New Project
8.Location of the project	Kh No. 85 (D), Village Babhulsar, Tal-Shirur, Dist-Pune
9.Taluka	Shirur
10.Village	Babhulsar
Correspondence Name:	Mr. Arjun Kale
Room Number:	Kh No. 85 (D), Village Babhulsar, Tal-Shirur, Dist-Pune
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Babhulsar village
City:	-
11.Whether in Corporation / Municipal / other area	Grampanchayat Babhulsar
12.IOD/IOA/Concession/Plan Approval Number	NOC from Grampanchayat Babhulsar has been obtained
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Grampanchayat NOC
15.Total Plot Area (sq. m.)	10000 Sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 11-05-2019
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	3621000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not Applicable
29.Existing structure (s) if any	Not applicable. New Project
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Stone Mining	0	27000 Cu.M. per year	27000 Cu.M. per year

32.Total Water Requirement

Dry season:	**Source of water**	Tanker
	Fresh water (CMD):	3
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	3
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0

Wet season:	**Source of water**	Tanker
	Fresh water (CMD):	3
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	3
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	1	1	0	0.2	0.2	0	0.8	0.8
Gardening	0	2	2	0	2	2	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	14-15 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable

35.Storm water drainage	**Natural water drainage pattern:**	Along slope direction of lease area i.e towards NE
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	0.8
	STP technology:	Septic tank & soak pit
	Capacity of STP (CMD):	1 No. of Septic tank & soak pit
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	0.7 Lakh
	Budgetary allocation (O & M cost):	0.4Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	No
	Wet waste:	No
	Hazardous waste:	No
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	No
	Others if any:	No
Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	No
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)

1	NA	NA	NA	NA	NA

Amount of effluent generation (CMD):	Nil
Capacity of the ETP:	0
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	0
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	NA. No provision of DG set or boiler etc.	NA	NA	NA	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity will be procured from MSEDCL. No provision of DG set or boiler etc. Hence no other fuel is required	NA	NA	NA

41.Source of Fuel	MSEDCL
42.Mode of Transportation of fuel to site	MSEDCL Connection

43.Green Belt Development

Total RG area :	Barrier zone of 7.5 m will be developed as Green Belt Area. Area under plantation will be 710 Sq.m.
No of trees to be cut :	0
Number of trees to be planted :	The plantation will be done 15 trees per year by planting local species.
List of proposed native trees :	Given below
Timeline for completion of plantation :	1 year

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Delonix Regia	Gulmohar	1	It is a deciduous tree growing to 10-15m tall tree. The tree has a graceful appearance and bright orange/vermilion flowers.

2	Manhifera Indica	Mango	1	Large evergreen tree with a dense dome shaped crown, fruit bearing tree. Wood is extensively used for low-cost furniture
3	Terminalia belerica	Beheda	1	large decidious tree
4	Azadirachta Indica	Neem	1	Neem is a fast growing tree that can reach a height of 15-20m. It is deciduous tree and the branches are wide and spreading, Good for air purification. Leaves have medicinal use.
5	Moringa Oleifera	Shevga	2	Native multipurpose tree
6	Syzigium cumini	Jambhul	1	It is a evergreen tree growing to 15-25m tall tree. Dense foliage & edible violet fruits invites lots of birds. Not preferred along roads or in parking lots, due to falling fruits & bird droppings
7	Ziziphus Mauritiana	Bor	1	Native. Fruit bearing tree
8	Ficus Racemosa	Umbar	1	Deciduous tree
9	Psidium Gujava	Peru	2	Fruit bearing tree
10	Terminalia Catappa	Badam	1	Ornamental tree
11	Tamarindus Indica	Chinch	1	Long lived, beautiful fruiting tree with a dense, spreading crown. The tree has fragrant flowers and a feathery foliage that is usually evergreen
12	Cassia fistula Linn.	Bahava	1	Flowering, Ornamental plan. Used in herbal medicine
13	Annona squamosa	Shitaphal	1	Fruit bearing tree
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	No
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	NA
	Transformer:	No
	DG set as Power back-up during operation phase:	No
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	No high tension line passing from plot

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not Applicable	Not Applicable

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	NA	Water Spraying, Road Maintenance, Vehicle management for Valid PUC, Green Belt development
Water	NA	Septic tank & soak pit will be provided
Noise	NA	Green belt development, provision of acoustic enclosure, PPE to workers as per requirement

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environment Monitoring and Management	Monitoring of Air, Water, Soil, Noise parameters etc.	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)

1	Air	Water Spraying, Road Maintenance, Vehicle management for Valid PUC, Green Belt development	5	1.5
2	Water	Septic tank & soak pit	0.7	0.4
3	Noise	PPEs if required, Acoustic enclosures, Green belt development	0.7	0.5
4	Green Belt Development	Tree plantation & its maintenance	0.5	0.4
5	Environment Monitoring and Management	Monitoring of Air, Water, Soil, Noise parameters etc.	-	2
6	Occupational Health & Safety measures	Health Check-up, PPE provision, Safety measures, Medical checkup	0.8	0.5

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	No
	Total Parking area:	Not applicable
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	Bus, Autorikshaw
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	No. Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	1 (a), Category- B2
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable

Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for prior Environment Clearance under category 1(a)B2 of the EIA Notification,2006 , as amended from time to time for the stone quarry having area of 1.00 ha. at Babhulsar Kh. No. 85 (D) , Taluka Shirur, District Pune.

The proposal was considered in the 166th A meeting of SEAC-1 wherein the proposal was defrred due to non submisison of DSR.

DECISION OF SEAC

PP, DMO and Consultant were present for the meeting.

During deliberations, DMO, Pune informed that, no cluster is formed arund the proposed mine lease area.

After detailed deliberations with the PP, DMO and their consultant, SEAC-1 decided to defer the proposal till submission of commpliance of following point.

Specific Conditions by SEAC:

1) PP to obtain and submit NOC from irrigation department as the Chas Kaman Canal is in the vicinity of proposed mine lease area.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.