SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for Expansion of Sugar Unit from 4000 TCD to 6000 TCD (Operating capacity of 7,200 TCD)

1.Name of Project	Expansion of Sugar Unit from 4000 TCD to 6000 TCD (Operating capacity of 7,200 TCD)
2.Type of institution	TOR
3.Name of Project Proponent	Padmashree Dr. VitthalraoVikhePatilSahakariSakhar Karkhana Ltd
4.Name of Consultant	Vasantdada Sugar Institute
5.Type of project	Not applicable
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	NA
8.Location of the project	194/A/1, 194/A/2, 195/A/1, 195/A/2, 196/1, 196/2, 197/A, 197/B, 198/A/1-2, 198/B, 205/A/1-2, 205/B, 206
9.Taluka	Rahata
10.Village	Pravranagar
11.Area of the project	Other area: Grampanchayat
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)	NO WORK HAS BEEN INITIATED
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	272 acre: Existing + proposed Sugar: 5 +2 = 7.0 acre
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
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	157500000

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)	60 ft
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	Sugar	14448	11558.4	26006.4
2	Bagasse	34188	27350.4	61538.4
3	Molasses	4548	3647.4	8186.4
4	Press Mud	4440	3552	7992

32.Total Water Requirement

Dry season:	**Source of water**	Pravara Left Bank Canal
	Fresh water (CMD):	339
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	339
	Fire fighting - Underground water tank(CMD):	70000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Pravara Left Bank Canal
	Fresh water (CMD):	50
	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):	70000
	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	40	10	50	8	2	10	32	8	40
Industrial Process	400	320	720	NA	NA	NA	400	320	720
Fresh water requirement	200	139	339	200	139	339	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20 m
	Size and no of RWH tank(s) and Quantity:	Rain water harvesting tank is proposed
	Location of the RWH tank(s):	near office building
	Quantity of recharge pits:	not any
	Size of recharge pits :	not applicable
	Budgetary allocation (Capital cost) :	2.0 Lakh
	Budgetary allocation (O & M cost) :	0.20 Lakh
	Details of UGT tanks if any :	NA

35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	54717.8 M3
	Size of SWD:	1000 m X 0.450 m X 0.750 m
Sewage and Waste water	**Sewage generation in KLD:**	45
	STP technology:	Sewage will be treated in septic tanks
	Capacity of STP (CMD):	Not any
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	2.0 Lakh
	Budgetary allocation (O & M cost):	0.25 Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	In minor quantity
	Disposal of the construction waste debris:	Top soil will be used for gardening purpose and excavated earth , debris will be used within the plot for re-filling and internal road development
Waste generation in the operation Phase:	**Dry waste:**	Press Mud: 47952 TPA & Boiler ash: 4462 TPA
	Wet waste:	ETP sludge 480 TPA
	Hazardous waste:	10 -15 MT/annum
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Press Mud : Used as manure after bio-composting process in own farm and stake holder farmers land & Boiler Ash: Sold to brick manufacturer
	Wet waste:	ETP sludge will be used as manure
	Hazardous waste:	Spent oil will be burn with bagasse in furnace
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not any
	Others if any:	not any
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	PH	--	4- 5.5	6.5 - 8.5	5.5 to 9.0
2	BOD	mg/lit	1500 - 3000	< 30	30
3	COD	mg/lit	2500 - 6000	< 250	250
4	Total Dissolved solids	mg/lit	1800 - 2500	< 2100	2100
5	Total Suspended Solids	mg/lit	600 - 800	< 100	100

Amount of effluent generation (CMD):	720
Capacity of the ETP:	1000 CMD
Amount of treated effluent recycled :	720
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	The note is attached as Annexure 1
Disposal of the ETP sludge	ETP sludge will be used in composting process with pressmud and will be used manure

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	MT/annum	7 - 8	5 - 6	10 - 15	Burnt into boiler

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	Bagasse 2051.28 TPD	1	NA	NA	130 C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	1139.6 TPD	911.68 TPD	2051.28 TPD
41.Source of Fuel		Own sugar factory		
42.Mode of Transportation of fuel to site		Fuel is available within the factory hence transportation is not required		

43.Green Belt Development	**Total RG area :**	28 acre
	No of trees to be cut :	Not any
	Number of trees to be planted :	Approx 1120 - 1500 no of trees will be planted
	List of proposed native trees :	The indigenous trees will be planted. Babhul, Subabhul, Neem, Gulmohar, Aavala, Karanj, Shisham, Kanher etc
	Timeline for completion of plantation :	Two 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	Azadiracta indica	Neem	110	Fly ash tolerant ,Tolerant of alkaline and Saline soil, common in the area
2	Acacia leucophloea	Subhabul	125	Tolerant to air pollution, very common in the region
3	Aegal marmalose	bel	70	Tolerant to air pollution, very common in the region
4	Acacia nilotica	Bhabul	125	Dust tolerant, very common in the region
5	Cordia spp.	Bhokar	45	Dust tolerant
6	Delonix regia	Gulmohor	115	Fly ash tolerant
7	Ficus bengalensis	Wad	70	Fluoride tolerant, common in the region
8	Tamarindus indica	Chinch	125	Tolerant to acidic soil
9	Nerium odoratum	Kanher	110	Tolerant of SO2, common
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 :**	Own cogeneration plant within the factory
	During Construction Phase: (Demand Load)	-
	DG set as Power back-up during construction phase	2 of 1250 kVA capacity each
	During Operation phase (Connected load):	2 of 1250 kVA capacity each
	During Operation phase (Demand load):	23 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	2 of 1250 kVA capacity each
	Fuel used:	Diesel
	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
Boiler	Electrostatic precipitator	Electrostatic precipitator

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

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	EMP cost	EMP cost including all sections	50 lakh	7 lakhs

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:	NA

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:	--
	Width of all Internal roads (m):	6 m wide
	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	Category B, 5 (j)
	Court cases pending if any	Not any
	Other Relevant Informations	Not any
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(j)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR isused by MoEF & CC published in April, 2015.

Public Hearing is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) PP to submit an undertaking that they have not violated the provisions of EIA Notification, 2006 and amendment thereof.
2) PP to carry out life cycle analysis for activities involved in the manufacturing process and related activities with the factory premises and include the same in the EIA report.
3) PP to submit detailed water balance chart showing consumption and recycle, reuse.
4) PP to provide Sewage Treatment Plant for domestic sewage and mark the location on layout plan.
5) PP to include proposed CSR activities in the EIA/EMP Report.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for Environmental clearnce for Expansion of Cane Crushing Capacity from 2,500 to 10,000 TCD and Setting up of New 32 MW Co-gen Unit

1.Name of Project	Jarandeshwar Sugar Mills Pvt. Ltd. (JSMPL)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Prasad D. Rakshe
4.Name of Consultant	Mantras Green Resources Limited, Nashik
5.Type of project	Sugar and Co-gen Plant
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of Existing Cane Crushing Capacity and Setting up of New Co-gen Unit
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Gut No. 803, Post: Chimangaon
9.Taluka	Koregaon
10.Village	Chimangaon
11.Area of the project	No
12.IOD/IOA/Concession/Plan Approval Number	No
	IOD/IOA/Concession/Plan Approval Number: No
	Approved Built-up Area: 34021.31
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	8,34,742.81 m2
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
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	2468530000

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)	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	Sugar	2,500	7,500	10,000
2	Co-gen Unit	0	32 MW	32 MW

32.Total Water Requirement

Dry season:	**Source of water**	Surface water (Tailganga River)
	Fresh water (CMD):	1395 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1395 CMD
	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**	Surface water (Tailganga River)
	Fresh water (CMD):	230 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	230 CMD
	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	120	0	120	20	0	20	100	0	100
Industrial Process	60	465	525	10	240	250	50	225	275
Cooling tower & thermopack	250	500	750	200	400	600	50	100	150
Fresh water requirement	430	965	1395	230	640	870	200	325	525

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	75 m. dia & 4.600 m. height (1 No.) of Raw water Tank
	Location of the RWH tank(s):	Near Proposed Office Building
	Quantity of recharge pits:	1
	Size of recharge pits :	120 X 100 X 10 m.
	Budgetary allocation (Capital cost) :	6 Cr.
	Budgetary allocation (O & M cost) :	10 Lac / Year
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	Semi-dendritic drainage pattern.
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	75 KLD
	STP technology:	Latest technology
	Capacity of STP (CMD):	1 and capacity 90 KLD
	Location & area of the STP:	Premises
	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:**	No
	Disposal of the construction waste debris:	No
Waste generation in the operation Phase:	**Dry waste:**	Bagasse, Press Mud,Fly Ash and Bottom Ash
	Wet waste:	Sludge from DM Plant, Sludge from ETP
	Hazardous waste:	No
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	Sludge from STP
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Bagasse will be used for power generation; Press Mud will be sold immediately to farmers for using as manuare; Fly Ash and Bottom Ash will be used for bricks manufacturing .
	Wet waste:	Dewatering in sludge drying bed and dewatering dry sludge will be used as manure for gardening purpose
	Hazardous waste:	No any type hazardous waste generating in this unit
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as Manure in organic farming
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	NO
	Area for the storage of waste & other material:	NO
	Area for machinery:	NO
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30.00 lac
	O & M cost:	7.66 lac

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not Applicable	4.5 to 6.5	6.5 to 8.5	5.5 to 8.5
2	Oil & Grease	mg/litre	10 to 20	<10	10
3	COD	mg/litre	2500 to 3500	< 250	250
4	BOD	mg/litre	1000 to 2000	< 100	100
5	TSS	mg/litre	500	<100	100

Amount of effluent generation (CMD):	525
Capacity of the ETP:	1000 KLD
Amount of treated effluent recycled :	100 %
Amount of water send to the CETP:	Nil
Membership of CETP (if require):	No
Note on ETP technology to be used	UASB technology
Disposal of the ETP sludge	After dewatering, dry sludge will be sent for landfilling

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	Sugar and co-gen unit	Bagasse	1	82	4.5m	150 degree c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	700 TPD	1632 TPD	2332 TPD
41.Source of Fuel		Own Sugar Unit		
42.Mode of Transportation of fuel to site		Through Conveyer		

43.Green Belt Development	**Total RG area :**	NA
	No of trees to be cut :	No
	Number of trees to be planted :	2,000/Hectare
	List of proposed native trees :	Aam, Ashok, Bel, Gulmohor, Nandruk, Shisham, Shiris, Silveroak, Neem, Ficus etc.
	Timeline for completion of plantation :	Five 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	Albizia lebbeck	Shiris	280	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	250	Large tree, good for roadside plantation
3	Saraca asoka	Sita Ashok	295	Shady tree with red-yellow flowers.
4	Ficus	Nandruk	290	Medium sized evergreen tree, Shady tree.
5	Grevillea robusta	silveroak	265	ornamental plant, Windbreak, gum resin,
6	Mangifera indica	Aam	140	Evergreen and erect growing, Anti inflammatory, Anti viral, Anti oxidant, Hepatoprotective
7	Aegle marmelos	Bel	80	Deciduous and aromatic tree with long, strong and axillary spines, Antidiarrheal, Anti dermatitis
8	Delonix regia	Gulmohor	150	Antibacterial, Antioxidant, shade tree
9	Dalbergia sissoo	Shisham	250	Timber tree , abortifacient, anthelmintic, antipyretic, aphrodisiac, expectorant and refrigerant properties.
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 :**	MSEB
	During Construction Phase: (Demand Load)	MSEB: 350 KVA
	DG set as Power back-up during construction phase	DG Set: 320 KVA
	During Operation phase (Connected load):	11.5 MW
	During Operation phase (Demand load):	11.5 MW
	Transformer:	During operationh phase MSEB: 132/ 11 KV: 40 MVA
	DG set as Power back-up during operation phase:	1010 KVA X 2 Nos.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	132 KV and 11 KV

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
Air pollution are: Boiler, Stack emissions, DG set emissions, vehicular movement.	Wet Scrubber	Electrostatic Precipitator (ESP)
Boiler	Wet Scrubber	Electrostatic Precipitator (ESP)
Water Pollution - Sugar Mill	ETP	ETP
noise pollution due to presence of centrifugal pumps, motors, DG sets, EOT Crane	Green Belt (33%)	Green Belt (33%) and there will be provision of acoustic enclosure for DG Set and turbine

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	No	No	No

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 equipments	Pollution Control Equipment for air pollution control measures	49.00	16.50
2	Chimney	Stack for air pollution control	25.63	4.00
3	Ash collection system	Proper collection and disposal of ash or dry waste	8.75	2.45
4	Water pollution control treatment	Water treatment plants ETP & STP	100.00	14.00
5	Noise Pollution control	Control measures for noise pollution	6.15	2.34
6	Solid waste Management	solid waste disposal and management in the form of manure and brick manufacturing	30.00	7.66
7	Occupational health	Safety measures in respect to health facilities will be provided to workers	12.85	4.80
8	Safety Management	Safety of workers will be monitored regularly and measures will be taken for the same	18.22	4.90
9	Development of green belt	Plantation of various native and other species developing the greenbelt area in 33% of total area	28.95	1.00
10	Maintenance of pollution control devices	Pollution control devices will be maintained properly	86.66	46.48
11	Expenses of CSR activities	CSR activities includes Education Development, Health management, rural road development, rainwater harvesting, organic farming & plantation	617.13	50.50
12	Total	Total	983.34	154.63

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	No storage involved	No storage involved	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:	20,000 .50 m2
	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):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No any protected areas
	Category as per schedule of EIA Notification sheet	Category 'B' as per Schedule of EIA Notification , Project Activity 5 (j) & 1(d)
	Court cases pending if any	No

	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-03-2017

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(j)B1 and 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

Public Hearing is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) PP to submit an undertaking that they have not violated provisions of EIA Notification, 2006 and amendments thereof.
2) PP to submit lay out plan showing internal roads, parking areas, locations of pollution control equipment, 33% green belt area etc.
3) PP to submit copy of agreement signed with competent authority for lifting water from river Tailganga.
4) PP to submit details of byproducts generation and its use , disposal etc.
5) PP to submit clarification regarding the proposed products as mentioned in the column No. 31 of consolidated statement; In case of any change in the same PP to submit request for the changes in the consolidated statement.
6) PP to carry out and submit a report on life cycle analysis for activities involved in the manufacturing process within the factory premises.
7) PP to submit copy of on site/ Off site emergency plan.
8) PP to submit design details of all air pollution control system with respect to the type and quantity of fuel.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for 0.8 MTPA Coal Washery by Heavy Media Bath Technology

1.Name of Project	0.8 MTPA Coal Washery by Heavy Media Bath Technology
2.Type of institution	Private
3.Name of Project Proponent	Topworth Urja & Metals Ltd. Nagpur
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	Khasra No. 4, 25, 28
9.Taluka	Zari Jamhi
10.Village	Pardi, Pandherkawda
11.Area of the project	Pardi Gram Pannchayat
12.IOD/IOA/Concession/Plan Approval Number	Pardi Gram Pannchayat
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 4000
13.Note on the initiated work (If applicable)	Not Applicable, the work will be initiated after receiving Environmental Clearance and Consent to Establish
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	16100 sq mt
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 4000
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	212500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Industrial Shed	1	15
2	Control Room	2	8
3	Store Room	1	4.5
4	Rest Room	1	3
5	Transfer Tower	2	8
6	Washery Tower	3	15

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 60 no. 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)	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 will be constructed for heavy vehicle and Fire Tender in case of emergency.
29.Existing structure (s) if any	Nil
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	Washed Coal	NA	0.28 MTPA	0.28 MTPA
2	Coal Fines	NA	0.28 MTPA	0.28 MTPA
3	Washery Rejects	NA	0.20 MTPA	0.20 MTPA
4	Slurry	NA	0.02 MTPA	0.02 MTPA

32.Total Water Requirement

Dry season:	**Source of water**	Mine discharge water of Captive Mine
	Fresh water (CMD):	30
	Recycled water - Flushing (CMD):	2
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	100
	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**	Mine discharge water of Captive Mine
	Fresh water (CMD):	30
	Recycled water - Flushing (CMD):	2
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	95
	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	5	5	0	1	1	0	4	4
Industrial Process	0	85	85	0	20	20	0	65	65
Cooling tower & thermopack	0	5	5	0	5	5	0	0	0
Gardening	0	5	5	0	5	5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon : 8 -12 mtrs bgl & Post-monsoon : 4 – 8 mtrs bgl
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	Nil
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Nil
	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:**	Storm water drain will be constructed around the plant area
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	4
	STP technology:	MBBR
	Capacity of STP (CMD):	1 x 10 KLD
	Location & area of the STP:	Within the premises
	Budgetary allocation (Capital cost):	Rs. 15 Lac
	Budgetary allocation (O & M cost):	Rs. 2 Lac/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not applicable
	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:**	Coal Rejects – 0.20 MTPA
	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:**	Coal reject at 25 %(maximum) will be generated to the tune of maximum 0.20 million tons/annum and will be used in own power generation and will be sold if permitted by the Coal Controller, MOC.
	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):**	Will be within own land.
	Area for the storage of waste & other material:	NA
	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):	65
Capacity of the ETP:	65
Amount of treated effluent recycled :	65
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Thickner, Hydrocyclones with Filter Press will be installed
Disposal of the ETP sludge	Slurry at 2.5 %(maximum) will be generated to the tune of maximum 0.02 million tons/annum and will be used in own power generation.

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	-	-	1	25	1.5	Ambient Temperature

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 :	5313
No of trees to be cut :	0
Number of trees to be planted :	900
List of proposed native trees :	Ashoka, Shisham, Neem, Palas
Timeline for completion of plantation :	-

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	150	Deciduous
2	Delbergialati folia	Shisham	250	semi-deciduous

3	Delonix Regia	Neem	250	semi-deciduous
4	Buteamono sperma	Palas	250	semi-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	0	0	0

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Max 100 KW
	DG set as Power back-up during construction phase	Nil
	During Operation phase (Connected load):	600 KW
	During Operation phase (Demand load):	500 KW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	No
	Fuel used:	Nil
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Nil

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	-	Bag Filter & Dust Suppression

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	-	-	-

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	Bag Filter & Water Sprinklers	50	5
2	Water Pollution Control	ETP & STP	200	10
3	Solid Waste Management	Captive Consumption in own Power & Steel Plant	-	-
4	Green Belt	Plantation	1	0.10
5	Environmental Monitoring	Air quality , Water and wastewater quality; Noise levels; Soil quality	-	5.0

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:	1932 sq mt
	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:	About 135 – 140 Trucks will be operated daily to carry washed coal, coal rejects & fines to Captive Power & Steel Plant
	Width of all Internal roads (m):	Will be minimum 6 mt.
	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	2 (a)
	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	-

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 2(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The Public Consultation is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) PP to ensure use of only mine water for coal washing; no other water source shall be used.
2) PP to submit design details of Effluent Treatment Plant.
3) PP to submit an undertaking for achieving Zero Liquid Discharge.
4) PP to submit an undertaking mentioning there no reserved forest within the radius of 10 KM of the project site.
5) PP to submit details of generation of air pollutants, its quantity and characteristics and proposed mitigation measures to reduce air pollution.
6) PP informed that the coal reject is having 67% ash content; PP to submit their plan for its disposal and /or reuse along with proposed pollution control measures.
7) PP to submit detailed process flow sheet, material consumption, waste generation and its mitigation measures.
8) PP to carry out life cycle analysis with respect to sustainability index, green house gas potential etc. and include in the EIA report.
9) PP to submit material balance of coal content and its pollution potential.
10) PP to submit copy of on site and off site emergency plan.
11) PP to submit layout plan showing internal roads, parking areas, location of pollution control equipment, waste storage areas etc.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for NANDKRISHNA CHEMICAL PRIVATE LIMITED

1.Name of Project	Expansion project of manufacturing of synthetic organic chemicals and allied chemicals
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh Shah and Mr. Ashish Kulkarni
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Not applicable
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. B-10, MIDC Nardana
9.Taluka	Sindkheda
10.Village	Bhabhale
11.Area of the project	Gram Panchayat, Babhale.
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 3300
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.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.):
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	44540000

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)	6 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
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	Aluminium Chloride Hexa hydrate	0.5	00	0.5
2	Ammonium Iodide	0.15	00	0.15
3	Di Ammonium Hydrogen Phospahte	0.27	00	0.27
4	Di Potassium O-Phosphate anhydrous	1	00	1
5	Di Sodium Tetra borate decahydate	0.24	00	0.24
6	Ferric Sulphate monohydrate	0.1	00	0.1
7	Iodophor	2	00	2
8	Phosphotungstic Acid	10	00	10
9	Phosphomolybdic Acid	2	00	2
10	Potassium Meta Vanadate	0.125	00	0.125
11	Silicotungstic Acid	15	00	15
12	Sodium Meta Vnadate	0.15	00	0.15
13	Carbon Disulphide Repacking	3	00	3
14	Diethyl Ether - Anaesthetic Ether	00	10	10
15	Diethyl Ether - Solvent Ether	00	45	45
16	Phenyl Hydrazine HCL	00	10	10
17	2,4 Dinitro Phenyl Hydrazine	00	3	3
18	Hydrazine Sulphate	00	5	5
19	Maleic Acid	00	2	2
20	Maleic Hydrazide	00	2	2
21	Fumaric Acid	00	2	2

22	Anthrone	00	1	1
23	Dithizone	00	1	1
24	1,5 Diphenyl Carbazide	00	1	1
25	Diphenyl Carbazone	00	0.5	0.5
26	Paradimethyl Amino Benzaldehyde	00	0.5	0.5
27	Benzanilide	00	3	3
28	Phenoxy Isopropyl Amine	00	10	10
29	Bromo-4 benzyloxy Propiophenone	00	5	5
30	Nak - Normal –1- (4-benzyloxy phenyl)-2-(1-methyl –2- phenoxy ethylamino) – propanone – 1-hydrochloride	00	5	5
31	2 Bromo,4-5 Dimethoxy Benzyl Bromide	00	5	5
32	3,4 Dimethoxy Benzaldehyde (Veratraldehyde)	00	5	5
33	5- Acetyl Methyl Salicylate	00	5	5
34	3,4,5 Trimethoxy Benzoic Acid	00	3	3
35	3,4,5 Trimethoxy Benzaldehyde	00	3	3
36	2 Amino 2 Phenyl butyric Acid	00	3	3
37	2-Dimethylamino 2 Phenyl butanol	00	3	3
38	Methyl 2- Dimethyl Amino 2- phenyl Butyrate	00	3	3
39	4 Methoxyphenyl Acetone	00	3	3
40	M- Nitro benzaldehyde	00	2	2
41	Halquinol	00	20	20
42	By-Products	--	--	--
43	Precipitated Silica	00	1.35	1.35
44	Bisulphite Solution	00	0.13	0.13
45	Sodium Sulphate Solid	00	15.478	15.478

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):	75 CMD
	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	2.0	0.0	2.0	0.5	0.0	1.0	1.5	0.0	1.5
Industrial Process	2.7	10.3	13.0	2.7	(+) 1.2	3.9	0.0	11.5	11.5
Cooling tower & thermopack	6.9	6.7	13.6	4.2	4.9	9.1	2.7	1.8	4.5
Gardening	3.0	2.0	5.0	3.0	2.0	5.0	0.0	0.0	0.0

Fresh water requirement	14.6	19.0	33.6	10.4	8.1	18.5	4.2	13.3	17.5

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	Provided by MIDC
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	1.5
	STP technology:	NA
	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:**	Nil
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1. ETP Sludge + Salts from Evaporator(TPA) = Existing 0.84 TPA + 00 TPA proposed 5.68 + 343.2 TPA Total- 349.72 TPA 2. Process residue (TPA)= Existing 00 TPA + proposed 5.77(Anesthetic & solvent Ether) + 24.86 (Process) Total- 30.63 3. Spent Carbon (TPA)- Existing 0.2 TPA Proposed- 1.4 TPA Total- 1.6 TPA 4. Empty Drums (Nos.) - existing - 00 Nos. Proposed - 100 Nos.Total - 100 Nos.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	CHWTSDF, Ranjangaon
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Manufacturing Area, Admin Area , ETP, etc.
	Area for the storage of waste & other material:	900 Sq.m.
	Area for machinery:	61 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in to total cost
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	----	4-9	6.5-8.5	--
2	BOD (3 days 27° C)	mg/L	1800-2250	80-90	--
3	COD	mg/L	4000-5000	200-230	--
4	TSS	mg/L	400-500	80-90	--
5	Oil & Grease	mg/L	10-15	5-7	--
6	TDS	mg/L	80000-100000	<100	--

Amount of effluent generation (CMD):	17 .5
Capacity of the ETP:	25 CMD
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Primary , Secondary , Tertiary and treated effluentwater passes through RO, permeate is recycle and reuse and RO reject treated in Evaporator.
Disposal of the ETP sludge	CHWTSDF, Ranjangaon

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	35.3	TPA	0.84+ 00	5.68 + 343.2	349.72	CHWTSDF, Ranjangaon
2	Process residue	28.1	TPA	00	5.77 (Anesthetic & solvent Ether)+ 24.86(Process)	30.63	CHWTSDF, Ranjangaon
3	Spent Carbon (ETP)	36.2	TPA	0.2	1.4	1.6	CHWTSDF, Ranjangaon
4	Empty Drums	33.1	Nos./M	00	100	100	Sale to authorized recycler
5	Non-hazardous	-	-	-	-	-	-

6	PVC Woven Sack	-	Nos/M	50	-	50	Sale

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 (0.3 TPH)	LDO (25 Kg/hr)	1	15	0.25	145 degree C
2	Thermopac(3 Lac Kcal/hr)	FO(42.01 Kg/hr)	2	20	0.25	145 degree C
3	DG set(125 KVA)	HSD (28 lit/hr)	3	3.5	0.20	180 degree C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	00	25 kg/Hr (For Boiler)	25 Kg/hr (For Boiler)
2	FO	5000 lit/D (Used for boiler & themopac)	42.01 kg/Hr (For Thermopac)	42.01 Kg/hr(For Thermopac)
3	HSD	200 Ltr/D	28 Lit/Hr	28 lit/hr
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Tanker / Truck		

43.Green Belt Development	**Total RG area :**	2178 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	230
	List of proposed native trees :	Pimpal, False Ashok , Neem, Palm
	Timeline for completion of plantation :	6 Month After EC

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	Ficus religiosa	Pimpal	20	Dust Resistant and Local Variety
2	Polyalthia longifolia	False Ashok	110	sound Barrier and Local Variety
3	Azardirachta indica	Neem	35	Dust Resistant and Medicinal Value
4	Anthosephalus cadamba	Kadamb	35	Dust barrier and Local variety
5	Terminalia arjuna	Arjun	30	Dust barrier and Local variety
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	Thevetia pearuviana (Kanher)	1.5 m	15
2	Bougainvillea galvara	2 m	20

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	247 KW
	During Operation phase (Demand load):	247 KW
	Transformer:	150 KVA
	DG set as Power back-up during operation phase:	125 KVA
	Fuel used:	HSD
	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
Air	By dispersal into atmosphere through chimney of adequate/recommended height.	Stack of Thermopac Will be increased by 5 meter
Water	Effluents generating from process is separating in two streams. High TDS stream being treated separately in a Evaporator of capacity 13 CMD. Condensate of MEE is mix with Low TDS & COD stream. Then it is treated in full-fledged Effluent treatment plant having capacity 25 CMD. Treated water passes through RO, permeate is recycle and reuse and RO reject treated in Evaporator. Unit will be running Zero liquid discharge	NA
Noise	Acoustic enclosure for Existing D.G of 125 KVA & PPE	NA
Solid Waste	Hazardous waste disposed to CHWTSDF	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	NA	NA	NA

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	Fuel burning, Stack/chimneys,Scrubbers - 02 Number	5	1.5
2	Water Pollution control	ETP Upgrading & Modernisation 25 CMD, RO Plant, Evaporator, Waste minimization of effluent recycle	73	1.46
3	Water Pollution control	ETP Upgrading & Modernisation 25 CMD, RO Plant, Evaporator, Waste minimization of effluent recycle	73	1.46
4	Noise pollution control	Acoustic encl./ Ant vibration pads	1	1
5	Occupational health	Medical checkup ,Health insurance policy	4	1.35
6	Green belt	green belt development	1	0.4
7	Non-hazardous waste storage & Disposal	Transportation and disposal	1	1.4
8	Total	-	85	7.11

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
Allumminium Hydrate	Solid	HDPE Drum	0.2	0.2	0.167	Local	By Road
Ammonia	Liquid	HDPE Drum	0.2	0.2	0.198	Local	By Road
Di-Sodium Tetraborate	Solid	HDPE Bag	0.25	0.5	0.250	Local	By Road
Diethyl Ether	Liquid	MSGI Drum	5	20	13.500	Local	By Road
Di - Sodium Phosphate	Solid	HDPE Drum	0.5	1	0.6666	Local	By Road
Ferous sulphate	Solid	HDPE Drum	0.2	1	0.1111	Local	By Road
Hydrochloric Acid	Liquid	HDPE Drum	5	21	14.200	Local	By Road
Iodine	Solid	HDPE Drum	0.1	1	0.102	Local	By Road
hydrogen peroxide	Liquid	HDPE Drum	0.5	1	0.048	Local	By Road
Molybdenum Trioxide	Solid	HDPE Drum	1	2	2.0	Local	By Road
Nitric Acid	Liquid	HDPE Drum	0.15	0.5	0.10222	Local	By Road
NPEO	Solid	Fibre Drum	0.3	1	0.220	Local	By Road
Phospharic Acid	Liquid	HDPE Drum	1	2	1.27758	Local	By Road
Potassium Hydroxide	Solid	HDPE Drum	0.5	1	0.8411	Local	By Road

Sodium Hydroxide	Solid	HDPE Drum	0.2	1	0.040	Local	By Road
Sodium Silicate	Liquid	HDPE Drum	3	5	6.500	Local	By Road
Sodium Tungstate	Solid	HDPE Drum	5	10	27.250	Local	By Road
Sulfuric Acid	Liquid	HDPE Drum	1	1	0.02888	Local	By Road
Vanadium Pentoxide	Solid	HDPE Drum	0.3	0.5	0.200	Local	By Road
Carbon Di - Sulphide Repacking	Liquid	SS tank	0.1	5	3.0	Local	By Road
1,5 diphynyl carbazide	Solid	HDPE Drum	0.2	0.2	0.625	Local	By Road
2 amino 2 phynyl buteric acid	Solid	HDPE Drum	3	3	8.275	Local	By Road
2,4 DInitrochloro benzene	Solid	HDPE Drum	3	5	7.629	Local	By Road
3 hydroxy 4 methyl benzaldehyde	Liquid	HDPE Drum	3	5	9.524	Local	By Road
3,4,5 trimethoxy toulene	Liquid	HDPE Drum	2	3	3.600	Local	By Road
4 hydroxy propiophenone	Liquid	HDPE Drum	2	2	5.401	Local	By Road
Acetic acid	Liquid	HDPE Drum	1	2	1.336	Local	By Road
Acetone	Liquid	HDPE Drum	5	8	16.733	Local	By Road
Acetyl chloride	Liquid	HDPE Drum	1	3	3.653	Local	By Road
Aluminium chloride	Solid	HDPE Drum	3	5	7.230	Local	By Road
Ammonia	Liquid	HDPE Drum	3	5	11.066	Local	By Road
Ammonium chloride	Solid	HDPE Drum	2	2	2.481	Local	By Road
Aniline	Liquid	HDPE Drum	2	3	1.440	Local	By Road
Antroquinone	Solid	HDPE Drum	1	2	3.500	Local	By Road
Benzaldehyde	Liquid	HDPE Drum	5	15	15.0	Local	By Road
Benzoyl chloride	Liquid	HDPE Drum	2	3	2.304	Local	By Road
Benzyl chloride	Liquid	HDPE Drum	3	4	3.804	Local	By Road
Bromine	Liquid	Glass Bottle	3	10	13.737	Local	By Road
Chlorine	gas	MS Tunner	3	5	7.692	Local	By Road
Copper iodide	Solid	HDPE Drum	0.75	0.75	0.750	Local	By Road
Carbon disulphide	Liquid	MS Tank	3	10	0.0303	Local	By Road
Cyclohexane	Liquid	HDPE Drum	3	10	17.042	Local	By Road
Di methyl formamaide	Liquid	HDPE Drum	1	3	5.400	Local	By Road
Di methyl sulphate - DMS	Liquid	HDPE Drum	3	5	18.189	Local	By Road
Di methyl sulphate - DMS	Liquid	HDPE Drum	3	5	18.189	Local	By Road
Ethyl Acetate	Liquid	HDPE Drum	3	5	4.794	Local	By Road
Ethyl Alcohol	Liquid	MS Tank	24	24	98.214	Local	By Road
Ethylene di-chloride	Liquid	HDPE Drum	2	4	5.384	Local	By Road
Ethylen di chloride toulene	Liquid	HDPE Drum	1	6	6.0	Local	By Road
formaldehyde	Liquid	HDPE Drum	1	3	5.193	Local	By Road
formic acid	Liquid	HDPE Drum	1	3	6.435	Local	By Road
hydrogen peroxide 50 %	Liquid	HDPE Drum	3	10	30.960	Local	By Road
HBR 47 %	Liquid	HDPE Drum	2	10	86.640	Local	By Road
hydrazin hydrate	Liquid	HDPE Drum	3	5	7.298	Local	By Road
hydrazine sulphate	Solid	HDPE Drum	1	3	2.307	Local	By Road

hydrochloric acid	Liquid	HDPE Drum	3	5	8.620	Local	By Road
hydrochloric acid 30 %	Liquid	HDPE Drum	3	5	12.666	Local	By Road
hydrogen peroxide	Liquid	HDPE Drum	0.5	1	0.16666	Local	By Road
IPA	Liquid	MS Drum	1	3	5.761	Local	By Road
Magnease dioxide	Solid	HDPE Drum	1	2	2.400	Local	By Road
maleic anhydride	Solid	HDPE Bag	1	3	3.467	Local	By Road
MDS	Liquid	HDPE Drum	3	5	38.191	Local	By Road
methanol	Liquid	MSGI Drum	10	20	157.354	Local	By Road
methyl 2 chloropropane	Liquid	HDPE Drum	1	2	2.382	Local	By Road
methyl salicylate	Liquid	HDPE Drum	1	2	3.846	Local	By Road
monoethanol amine	Liquid	HDPE Drum	1	1	0.82896	Local	By Road
N, N dimethyl aniline	Liquid	HDPE Drum	1	1	0.520	Local	By Road
N, N dimethyl formamaide	Liquid	HDPE Drum	1	1	0.880	Local	By Road
sodium Hydroxide 50 %	Liquid	HDPE Drum	2	3	5.716	Local	By Road
Nitric acid	Liquid	Glass Bottle	3	5	14.285	Local	By Road
Paramethoxy benzaldehyde	Liquid	HDPE Drum	1	2	2.617	Local	By Road
Para cresol	Solid	MSGI Drum	5	10	24.0	Local	By Road
Phenol	Solid	MSGI Drum	3	5	6.153	Local	By Road
Phenoxy isopropyle amine	Liquid	HDPE Drum	3	3	2.739	Local	By Road
phenyl hydrazine	Liquid	HDPE Drum	3	5	10.583	Local	By Road
phosphoryl chloride	Liquid	HDPE Drum	0.2	0.3	0.240	Local	By Road
potash alum	Solid	HDPE Bag	1	2	0.628	Local	By Road
potassium carbonate	Solid	HDPE Bag	3	5	4.109	Local	By Road
potassium permagnate	Solid	MS Drum	0.5	1	0.19047	Local	By Road
propiophenone	Liquid	HDPE Drum	1	2	3.111	Local	By Road
potassium hydroxide	Solid	HDPE Drum	1	1	0.166	Local	By Road
ranni nikel catalyst	Solid	HDPE Drum	0.2	0.4	0.100	Local	By Road
sodium acetate	Solid	HDPE Bag	1	1	0.440	Local	By Road
sodium bi carbonate	Solid	HDPE Bag	1	1	1.369	Local	By Road
sodium bi sulphite	Solid	HDPE Bag	1	1	0.07142	Local	By Road
sodium borohydride	Solid	HDPE Drum	1	1	2.156	Local	By Road
sodium carbonate	Solid	HDPE Bag	1	1	0.3622	Local	By Road
sodium chloride	Solid	HDPE Drum	1	1	0.0016917	Local	By Road
sodium cyanide	Solid	HDPE Drum	0.2	1	1.278	Local	By Road
sodium hydroxide	Solid	HDPE Bag	5	10	24.099	Local	By Road
Sodium metal	Solid	Tin MS Drum	1	2	11.400	Local	By Road
Sodium methoxide	Solid	HDPE Drum	1	2	1.036	Local	By Road
sulphuric acid	Liquid	HDPE Drum	5	10	71.357	Local	By Road
Toulene	Liquid	HDPE Drum	5	10	148.025	Local	By Road
urea	Solid	HDPE Drum	0.2	0.2	0.370	Local	By Road
8-Hydroxy Quinoline	Solid	HDPE Drum	3	5	13.636	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:	792 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
	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	5(f)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-04-2017

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 isused by MoEF & CC published in April, 2015.

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

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) PP to submit an undertaking that, they area operating their plant from 2006 only for the manufacture of inorganic products for which prior Environment Clearance was not applicable and they have not violated any requirement of EIA Notification, 2006 and amendments thereof.
2) PP to divert domestic sewage line to the secondary treatment in the ETP.
3) PP to submit layout plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, location of waste storage etc.
4) PP to submit detailed report of HAZOP and QRA.
5) PP to prepare and submit hazardous chemical handling protocol.
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 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 submit on site/ off site emergency plan.
9) PP to submit rain water harvesting plan.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for Pigments Manufacturing Plant (Synthetic Organic Chemical Industry: 5(f))

1.Name of Project	Pigments Manufacturing Plant
2.Type of institution	Private
3.Name of Project Proponent	Sapphire Pigments Private Limited., Mr. Hetal Shah Managing Director A-1/12 phase II, GIDC, Vatva, Ahmedabad – 382 445 hetal1961@gmail.com Phone: 9825009313 Fax: 9140099313
4.Name of Consultant	Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Industrial
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	Not applicable
8.Location of the project	Plot No. FS- 34, Mahad Five star Industrial area, MIDC, Mahad, Raigad, Maharashtra
9.Taluka	Mahad
10.Village	Amshet
11.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 2191.59
13.Note on the initiated work (If applicable)	No work Initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8000 Sq.m.
16.Deductions	00
17.Net Plot area	8000
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** --
	b) Non FSI area (sq. m.): --
	c) Total BUA area (sq. m.): 2191.59
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	50000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
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)	More than 100 ft
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	15m
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	CPC Blue	NA	100	100
2	Alpha Blue	NA	40	40
3	Beta Blue	NA	40	40
4	Green 7	NA	25	25
5	Turquoise Blue	NA	10	10
6	Total	Total	215	215
7	Byproducts from CPC Blue - NH4 Solution	NA	3000 Ltr/batch	3000 Ltr/batch
8	Byproducts from CPC Blue- 3-5% spent of H2SO4	NA	4570 Ltr/batch	4570 Ltr/batch
9	Byproducts from Alpha Blue - 15 - 18 % H2SO4	NA	13500 Ltr/batch	13500 Ltr/batch
10	Byproducts from Beta Blue - Fiter and washing water	NA	23000 Ltr/batch	23000 Ltr/batch
11	Byproducts from Green 7- HCL from Scrubber	NA	3700 Ltr/batch	3700 Ltr/batch
12	Byproducts from Green 7- PACL3 Mother Liquor	NA	4470Ltr/batch	4470Ltr/batch
13	Byproducts from Blue 86 - 5 % spent of oleum	NA	4275 Ltr/batch	4275 Ltr/batch

32.Total Water Requirement

Dry season:	**Source of water**	MIDC, Five star Mahad
	Fresh water (CMD):	93
	Recycled water - Flushing (CMD):	49.5 (used in process)
	Recycled water - Gardening (CMD):	17.5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	93
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	25
Wet season:	**Source of water**	MIDC, Five star Mahadlicable
	Fresh water (CMD):	93
	Recycled water - Flushing (CMD):	49.5 (used in process)
	Recycled water - Gardening (CMD):	17.5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	93
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	25
Details of Swimming pool (If any)	NA	

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	2.5	2.5	0	0	0	0	2.5	2.5
Industrial Process	0	90.5	90.5	0	34.5	34.5	0	72	72
Gardening	0	17.5	17.5	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10- 15 m
	Size and no of RWH tank(s) and Quantity:	50 Cum
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 10 Lacs
	Budgetary allocation (O & M cost) :	Rs. 3 lacs/annum
	Details of UGT tanks if any :	3 Cum
35.Storm water drainage	**Natural water drainage pattern:**	Towards south west
	Quantity of storm water:	Quantity of storm water: 100 m3/hr (max.)
	Size of SWD:	500 mm
Sewage and Waste water	**Sewage generation in KLD:**	2
	STP technology:	NA
	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:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	19
	Wet waste:	8
	Hazardous waste:	15 MT/day
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Coal ash – 200 kg/day Plastic drum – 2 no./day spent oil 0.2 MT/year

Mode of Disposal of waste:	**Dry waste:**	Handed over to the authorised recyclers
	Wet waste:	Composting
	Hazardous waste:	Disposal at CHWTSDF / Brick Manufacturing
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Authorised recycler
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:**	Rs. 5 Lacs
	O & M cost:	Rs. 8 Lacs/annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	pH unit	2.5	7.5	5.5 – 9.0
2	Color	Co-pt unit	1810	89	-
3	SS	Mg/l	600	92	Max. 100
4	TDS	Mg/l	3500	2800	-
5	COD	Mg/l	4000	210	Max.250
6	BOD	Mg/l	1100	46	Max. 100
7	Oil & grease	Mg/l	15.0	7.0	Max. 10
8	Copper	Mg/l	12.7	1.8	-
9	Ammonical Nitrogen	Mg/l	2000	45	<50

Amount of effluent generation (CMD):	74.5
Capacity of the ETP:	125 Cum
Amount of treated effluent recycled :	49.5
Amount of water send to the CETP:	25
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Effluent is collected in the collection tank (RCC Brick line underground tank). The collected effluent is then sent for Neutralisation tank, where pH is maintained of the effluent. Neutralisation is done with Hydrated Lime under constant stirring. The neutral water is then clarified in Primary Clarifier. The sludge is the sent to sludge bed where it is dried and Gypsum is formed. The gypsum is sold as by-product or is disposed off to CHWTSDF. Filtrate from Primary Clarifier is sent for Biologica
Disposal of the ETP sludge	will be sent to CHW-TSDF Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

1	ETP lime sludge	35.3 Chemical sludge from waste water treatment	-	NA	15 MT/ day	15 MT/ day	Sent to CHW-TSDF Taloja
2	NH4 Liquor sollution from CPC Blue reaction vessel	26.5	-	NA	3000Ltr/batch	3000Ltr/batch	Sale/ Treatment
3	Spent of H2SO4 from CPC blue purification	26.3	-	NA	4570 Ltr/batch	4570 Ltr/batch	Sale/ Treatment
4	Spent of H2SO4 from Alpha Blue Plant used in CPC Blue for Purification	26.3	-	NA	13,500 Ltr/batch	13,500 Ltr/batch	Used in Purification of CPC Blue
5	HCL generated from Green 7 Plant	26.3	-	NA	3700 Ltr/batch	3700 Ltr/batch	Sale/ Treatment
6	PALCL3 from Green 7 plant for Drowning vessel	26.3	-	NA	4470 Ltr/batch	4470 Ltr/batch	Sale/ Treatment
7	5% Spent of Oleum from Blue 86 Drowning Vessel	26.3	-	NA	4275 Ltr/batch	4275 Ltr/batch	Sale/ Treatment
8	Coal Ash from Boiler	26.2	-	NA	200 Kg/day	200 Kg/day	Brick manufacturer/ CHW-TSDF Taloja
9	MISC Sludge of oil/grease in negligible quantity (Dry garbage)	--	-	NA	19 Kg/day	19 Kg/day	CHW-TSDF Taloja
10	MISC Sludge of oil/grease in negligible quantity (Oil/grease waste	35.4	-	NA	0.56 Kg/day	0.56 Kg/day	CHW-TSDF Taloja
11	Drum, HDPE BAGS, LDPE BAGS SALE TO RECYCLERS AND RESELLERS	33.1	-	NA	2 Nos/day	2 Nos/day	Sale to recycler and reseller

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	Stack attached to Boiler & thermax fluid heaterstack	Coal	1	16	1.2	180

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	NA	Coal	Coal
2	Diesel DG set	NA	Diesel DG set	Diesel DG set
41.Source of Fuel		coal		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Total RG area: 2797.96 m2
	No of trees to be cut :	-
	Number of trees to be planted :	1200
	List of proposed native trees :	all
	Timeline for completion of plantation :	2 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	Azadirachtaindica	Neem	100	Large tree, good for roadside plantation
2	Anthocephaluskadamba	Kadamba	90	Shady, large tree, ball shaped flowers.
3	Alstonia scholars	Saptaparni	120	Shady, large evergreen Tree, white fragrant flowers
4	Cassia fistula	Bahava	85	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
5	Mesuaferra	Nagchampa	70	It known for its fragrant flowers,
6	Micheliachampaca	Champa	50	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
7	Mimusopselengi	Bakul	70	Shady tree, small white fragrant flowers
8	Pongamiapinnata	Karanj	85	Shady tree.
9	Bauhineablackeana	Apta / Kanchan	65	Small tree with small white flowers, Butterfly host plant
10	Saracaasoca	Sita Ashok	90	Shady tree with red-yellow flowers.
11	Delonixregia	Gulmohar	90	flowering plant
12	Tectona grandis	Teak	80	tropical hardwood tree species placed in the flowering plant family Lamiaceae
13	Gardenia jasminoides	Ananta	70	evergreen flowering plant
14	Calistemonlanceolatus	Bottle Brush	55	flowering plant
15	Sesamum indicum	Seasam	80	flowering 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	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	49 KW
	DG set as Power back-up during construction phase	50kVA
	During Operation phase (Connected load):	150 KW
	During Operation phase (Demand load):	112 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	50 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

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
ETP	NA	1
DG set	NA	1

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	Dust supression and monitoring	1.92
2	Water	tanker for construction and monitoring	3.6
3	Land	Site sanitation & toilets	3
4	Biological	Plantation	2

5	Socio-economic env.	Disinfection- Pest Control ,First Aid Facilities , Health Check Up , protective equipment	2.18

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Emission control	stack	15	10
2	Water & Wastewater management	ETP	50	6
3	Solid Waste	Authorized recycler	5	8
4	Green Belt Development	Plantation	6	2
5	Monitoring	MOEF	2	1
6	Environmental Cell & PR	-	3	2
7	Other aspects like Rain Water Harvesting, Safety, Security etc	RWH tanketc.	10	3
8	Contingency	-	3	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
H2SO4 (98%)	Liquid	Near ETP	25KL	50 KL	320	Local	By road, tanker
HCl (30%)	Liquid	Near ETP	20 KL	40 KL	50	Local	By road, tanker
NITROBENZENE	Liquid	Near ETP	10 KL	10 KL	10	Local	By road, tanker
MONOCHLOROBENZENE	Liquid	Near ETP	10 KL	10 KL	2	Local	By road, tanker
LIQUID AMMONIA	Liquid	Near ETP	10 KL	10 KL	100	Local	By road, tanker
NBA	Liquid	Near ETP	5KL	5KL	2	Local	By road, tanker
WATER	Liquid	Different location	5-100 KL	100 KL	240	MIDC	MIDC pipeline
Chlorine	Gas	Separate storage shed	2 MT	2 MT	28	Local	By road, tanker

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	960.57 Sq.m.
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 Km
	Category as per schedule of EIA Notification sheet	5 (f) B2
	Court cases pending if any	No
	Other Relevant Informations	1) We have submitted the application Form1 along with all necessary annexure and Pre feasibility report to State level Expert appraisal Committee on 19.10.16 vide Proposal no SIA/MH/IND2/17581/2016 through online and in hard copy too. 2) Since the committee dissolved in month of October 2016, we have applied to EAC dated 4th January 2017 vide File No. F.No.- IA-J-11011/8/2017-IA-II(I) for consideration of our proposal. 3) Our Proposal considered in 18th Expert Appraisal Committee (Industry – II) (Item No. 18.10.3) for Terms of Reference (ToR) 4) We have received ToR vide Minutes of meeting of 18th EAC and ToR letter (letter attached herewith) 5) We have startrd preparing EIA report on the basis of the same and submitting herewith the EIA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-10-2016

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 isused by MoEF & CC published in April, 2015.

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

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR and TOR granted by MOEF&CC vide letter dated 29.04.2017as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.
2) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house gas potential and ozone depletion potential etc.
3) 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.
4) PP to submit on site/ off site emergency plan.
5) PP to submit copy of HAZOP and QRA studies.
6) PP to submit details of energy consumption ,use of non renewable energy and energy saving.
7) PP informed that the category of the project is 5(f)B1 but it s wrongly mentioned as B2 in the consolidated statement.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

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.

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.Area of the project	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.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
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	-

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. PP has obtianed earleir EC vide No. SEAC-2016/CR-242/TC-1 dated 12.05.2017.

Public Hearing is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) During deliberations it was observed that, the carbon dioxide gas is exhausted to atmosphere at 140 degrees celcius; PP to explore possibility to reuse this gas for other uses instead of leaving to the atmosphere; PP also to submit report on heat integration of kiln.
2) PP to carry out end to end life cycle analysis to identify sustainability index, green house potential, ozone depletion potential etc.
3) PP to submit detailed mass balance study across the equipment and equipment efficiency.
4) PP to submit copy of agreement signed with competent authority for lifting of water from Ama Nala Dam Wardha River.
5) PP to submit detailed water balance chart showing water intake, consumption, generation of waste water and its treatment ,disposal etc.
6) PP to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.
7) PP advised to use vapor compressor heat engine technology for office area cooling.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for Proposed expansion of the production capacity of M.S. Billets from 10,000 TPM to 35,000 TPM & TMT Bars from 10,000 TPM to 35,000 TPM

1.Name of Project	M/s Rajuri Steel Private Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Dinesh Rathi (Director)
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Industry Project
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	Yes
8.Location of the project	Plot No. F-12 Additional MIDC Area, Phase-II, Jalna, Maharashtra
9.Taluka	Jalna
10.Village	Jalna
11.Area of the project	MIDC Jalna
12.IOD/IOA/Concession/Plan Approval Number	The land has been leased out by MIDC to M/s Rajuri Steel Private Limited
	IOD/IOA/Concession/Plan Approval Number: The plan is approved by MIDC for existing unit. Additional shed construction area about 1800-2000 sq.m. may be required for expansion phase.
	Approved Built-up Area: 8159.70
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.)	20181.00 sq mt
16.Deductions	In internal road, open space, margin from boundary wall and plantation
17.Net Plot area	Not applicable
18.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.): 8159.70
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	250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	One Industrial shade area	1	15 Mtrs.

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 500 no. users including workers & staff after expansion
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)	20 m. MIDC road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Possibility will be explored to maintain minimum turning radius of 6 mtr.
29.Existing structure (s) if any	Existing Industrial shed where Induction Furnace and Rolling Mills are installed. Proposed expansion will be carried out in existing shed by adding additional furnaces of 1 x 10 TPH, 2 x 15 TPH, 2 x 20 TPH and 2 no. of Rolling Line.
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	TMT Bars	10000	25000	35000
2	Billets	10000	25000	35000

32.Total Water Requirement

Dry season:	**Source of water**	MIDC and own Captive Lake
	Fresh water (CMD):	122
	Recycled water - Flushing (CMD):	11
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	198
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00

Wet season:	**Source of water**	MIDC and own Captive Lake
	Fresh water (CMD):	122
	Recycled water - Flushing (CMD):	11
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	192
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
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	16	06	22	3.2	1.2	4.4	12.8	4.8	17.6
Industrial Process	25	50	75	5	10	15	20	40	60
Cooling tower & thermopack	25	70	95	25	70	95	00	00	00
Gardening	4	2	6	4	2	6	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon 10-20 m bgl , Post monsoon 5-10 m bgl.
	Size and no of RWH tank(s) and Quantity:	Will be elaborated in final EIA report.
	Location of the RWH tank(s):	Will be elaborated in final EIA report.
	Quantity of recharge pits:	5 Nos
	Size of recharge pits :	3m X 3m X 3m Depth
	Budgetary allocation (Capital cost) :	Rs.175000
	Budgetary allocation (O & M cost) :	Rs.10000/- per annum
	Details of UGT tanks if any :	A under ground tank is there for fire fighting as per norms. Additional tank if required will be constructed.

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain will be constructed around the plant area
	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:**	18
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 No. & 20 KLD Capacity
	Location & area of the STP:	With in plot area
	Budgetary allocation (Capital cost):	Rs. 35 Lacs
	Budgetary allocation (O & M cost):	Rs. 3.0 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:**	Slag and Tail cuttings.
	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:**	Slag will be crushed in slag crusher and iron residuals will be recovered by magnet for reuse in induction furnace. Remaining Slag will be used for Hardening of working area, internal road, brick manufacturers, Concreting and Tail Cuttings will be recycled and reused in the Induction Furnace.
	Wet waste:	NA.
	Hazardous waste:	Used oil will be sold to authorized recycler vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Within plant area`
	Area for the storage of waste & other material:	500 Sq.m.
	Area for machinery:	100 sq.m. area for slag crusher.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 2.00 Crores
	O & M cost:	Rs. 20.00 lac

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):	60
Capacity of the ETP:	65
Amount of treated effluent recycled :	60
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Settling 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 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	Induction Furnace	Electricity	1 No.	30	1.6	50 degree Centigrade

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity	12.5 MW	31.25 MW	43.75 MM

41.Source of Fuel	State Electricity Board
42.Mode of Transportation of fuel to site	Transmission Line

43.Green Belt Development	**Total RG area :**	6000 Sq.m.
	No of trees to be cut :	00
	Number of trees to be planted :	Till date about 200 nos. plants are planted and 1100 nos. of plant to planted.
	List of proposed native trees :	Ashoka, Pipal, Neem, Gulmohar
	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	600	deciduous

2	Ficus Religiosa	Peepal	100	semi-deciduous
3	Delonix Regia	Gulmohar	200	semi-deciduous
4	Azardirachta indica	Neem	200	semi-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 :**	State Electricity Board
	During Construction Phase: (Demand Load)	maximum 100 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	20 MW + 35 MW
	During Operation phase (Demand load):	43.75 MW after expansion
	Transformer:	Yes
	DG set as Power back-up during operation phase:	NA
	Fuel used:	in entire process electricity is the main fuel.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Possibilities will be explore to minimize the power consumption by adopting best possible process , equipment etc.

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
Induction Furnace and Rolling mill	Bag Filters and Wet scrubbers	Bag Filters and Wet scrubbers

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	particulate matter	Rs. 1.00 lac

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	Wet scrubbers and Bag Filters	Rs. 50 lacs	Rs. 5 lacs
2	Water Pollution Control	STP & ETP	Rs 35 Lacs and Rs. 10 Lacs	Rs. 3 lac and Rs 1 Lac
3	Solid Waste Management	Slag Crusher	Rs. 200 lac	Rs. 20 Lac
4	Green Belt	Plantation	Rs.3 lac	Rs.0.50 lac
5	Environment Monitoring and Management	Air quality , Water and wastewater quality; Noise levels; Soil quality	--	--

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 20 Mtr.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2422 sq mt.
	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:	43 to 50 trucks/day will be operated after commission of proposed unit for transportation of raw material and finished product .
	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	NA
	Category as per schedule of EIA Notification sheet	3(a)
	Court cases pending if any	None
	Other Relevant Informations	Application for the TOR
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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 isused by MoEF & CC published in April, 2015. PP has obtianed earlier EC vide No. SEAC-2016/CR-242/TC-1 dated 12.05.2017.

Public Hearing is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.
2) PP to submit details of products manufactured in last five years against the consent to operate granted by MPCB.
3) PP to submit report of source emission of air pollutants, their characteristics and mitigation measures proposed to reduce air pollution.
4) PP to submit compliance report of earlier EC No. SEAC-2016/CR-424/TC-1 dated 12.05.2017
5) PP to submit their plan for sustained water supply either from MIDC or from rain water harvesting along with calculations.
6) PP to submit calculation to achieve 35000 TPM product with respect to the number of heats.
7) PP to carry out study and submit report on global warming potential of the process (generation of CO2gas/tons of product) as the process is very energy intensive.
8) PP to submit calculation for actual and designed energy efficiency of the furnace.
9) PP to submit slag disposal plan.
10) PP to submit Traffic Impact Study commenting on existing traffic in side and out side, proposed traffic increase and its impact of near by road and mitigation measures.
11) PP to carry out monitoring of all surface water bodies within the study area.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for Proposed to install Induction Furnace to produce 30,000 TPM M.S. Billets and Rolling Mill to produce 30,000 TPM TMT Bar

1.Name of Project	M/s. Ashva Multi Trade Private Limited
2.Type of institution	Private
3.Name of Project Proponent	Ashok Ramgopal Mundada
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Industry 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	Not Applicable
8.Location of the project	Gut No. 58, Daregaon, Tahsil & District Jalna, Maharashtra
9.Taluka	Jalna
10.Village	Daregaon
11.Area of the project	Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Not Applicable, work will be initiated after receipt of Environmental Clearance & Consent to Establish
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	50061.5 sq mt
16.Deductions	margins from boundary wall , internal roads , area for plantation etc.
17.Net Plot area	Not applicable
18.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.): 7000
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	700000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	One Industrial shade area	1	15 Mtrs.

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 340 - 350 no. 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)	15 m. wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	internal roads will be of sufficient width to handle heavy vehicle traffic , fire tender movement in case of emergency . the details will be elaborated in final lay out plan to be attached with EIA report.
29.Existing structure (s) if any	Nil
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	M.S. Billets	0	30000	30000
2	TMT Bars	0	30000	30000

32.Total Water Requirement

Dry season:	**Source of water**	Ground Water
	Fresh water (CMD):	105
	Recycled water - Flushing (CMD):	7
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	166
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00

Wet season:	**Source of water**	Ground Water
	Fresh water (CMD):	105
	Recycled water - Flushing (CMD):	7
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	160
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
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	00	16	16	00	3	3	00	13	13
Industrial Process	00	60	60	00	12	12	00	48	48
Cooling tower & thermopack	00	84	84	00	00	00	00	00	00
Gardening	00	6	6	00	6	6	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	pre monsoon 10 - 20 mt bgl , post monsoon 5 - 10 mt bgl.
	Size and no of RWH tank(s) and Quantity:	Rainwater harvesting will be carried out. The details of tanks will be elaborated in Final EIA report
	Location of the RWH tank(s):	Will be finalize after detailed drawing & design.
	Quantity of recharge pits:	Will be finalize after detailed drawing & design.
	Size of recharge pits :	Will be finalize after detailed drawing & design.
	Budgetary allocation (Capital cost) :	---
	Budgetary allocation (O & M cost) :	---
	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:	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:**	13
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 No. & 15 KLD
	Location & area of the STP:	Within the plant premises
	Budgetary allocation (Capital cost):	Rs. 25 Lacs
	Budgetary allocation (O & M cost):	Rs.2.0 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:**	Slag and Tail cuttings
	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:**	Slag will be used for Hardening of working area, internal road, brick manufacturers, Concreting and Tail Cuttings will be recycled and reused in the Induction Furnace
	Wet waste:	NA.
	Hazardous waste:	Used oil will be sold to authorized recycler vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Within the project boundary
	Area for the storage of waste & other material:	About 500 sq mt is identified for storing slag & tail cutting within the plant boundary.
	Area for machinery:	Slag crusher will be installed to crush slag and to recover the iron particles for reuse in Induction Furnace. Crushed slag will be used for hardening of working area, making of internal roads in plant and or nearby villages.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.2.00 Crores
	O & M cost:	Rs.20.00 Lacs

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):	48 CMD
Capacity of the ETP:	50 CMD
Amount of treated effluent recycled :	48 CMD
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Settling 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 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	Induction Furnace	Electricity	1	30	1.6	50 degree Centigrade

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity	00	30 MW	30 MW

41.Source of Fuel	State Electricity Board
42.Mode of Transportation of fuel to site	Transmission Line

43.Green Belt Development	**Total RG area :**	16520
	No of trees to be cut :	33% of the total plot area
	Number of trees to be planted :	0
	List of proposed native trees :	800
	Timeline for completion of plantation :	Ashoka, Pipal, Gulmohar, Neem

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	200	deciduous

2	Ficus Religiosa	Peepal	200	semi-deciduous
3	Delonix Regia	Gulmohar	200	semi-deciduous
4	Azardirachta indica	Neem	200	semi-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 :**	State Electricity Board
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	37.5 MW
	During Operation phase (Demand load):	30 MW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	NA
	Fuel used:	In entire process electricity is the main fuel.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Possibility will be explore to minimize the power consumption by adopting best possible process, equipment etc.

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
Induction Furnace and Rolling mill	NA	Proposed to be Installed Wet scrubbers and Bag Filters

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	Particulate matter	Rs. 1.00 lac

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	Wet scrubbers and Bag Filters	Rs. 50 Lac	Rs. 5 Lac
2	Water Pollution Control	STP & ETP	Rs. 25 Lac and rs. 10 Lac	Rs. 2 Lac and Rs. 1 Lac
3	Solid Waste Management	Slag Crusher	Rs.200 Lac	Rs. 20 Lac
4	Green Belt	Plantation	Rs.3 Lac	Rs.0.50 Lac
5	Environmental Monitoring	Air quality , Water and wastewater quality; Noise levels; Soil quality	--	--

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:	Approach road width is 15 mtr.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	6000 sq mt.
	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 commissioning of proposed unit for transportation of raw material and finished product
	Width of all Internal roads (m):	15 mtrs
	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	3(a)
	Court cases pending if any	None
	Other Relevant Informations	Application for the grant of TOR
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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 isused by MoEF & CC published in April, 2015. PP has obtianed earleir EC vide No. SEAC-2016/CR-242/TC-1 dated 12.05.2017.

Public Hearing is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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.

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.
2) PP to submit details of ownership documents.
3) As the proposed area is not in MIDC; PP to submit Regional Plan extract and submit remarks of the Town Planning Department regarding use of proposed land for industrial use.
4) PP to submit report of source emission of air pollutants, their characteristics and mitigation measures proposed to reduce air pollution.
5) PP to submit their plan for sustained water supply either from MIDC or from rain water harvesting along with calculations.
6) PP to carry out study and submit report on global warming potential of the process (generation of CO2gas/tons of product) as the process is very energy intensive.
7) PP to submit calculation for actual and designed energy efficiency of the furnace.
8) PP to submit slag disposal plan.
9) PP to submit Traffic Impact Study commenting on existing traffic in side and out side, proposed traffic increase and its impact of near by road and mitigation measures.
10) PP to carry out monitoring of all surface water bodies within the study area.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

SEAC-1 MEETING

SEAC Meeting number: 140 **Meeting Date** July 20, 2017

Subject: Environment Clearance for It is proposed to expand the production capacity of M.S. Billets from 23,100 TPA to 1,45,200 TPA; TMT Bars from 60,000 TPA to 1,44,000 TPA; M.S. Pipes from 30,000 TPA to 96,000 TPA

1.Name of Project	M/s. Diwanka Energy Private Limited
2.Type of institution	Private
3.Name of Project Proponent	Priyank Diwanka
4.Name of Consultant	Pollution And Ecology Control Services
5.Type of project	Industry Project
6.New project/expansion in existing project/modernization/diversification in existing project	New/Expansion project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	At Survey no. 149,150,151
9.Taluka	Mouda
10.Village	Lapka
11.Area of the project	Lapka Gram Panchayat in Nagpur Metro Region Development Authority
12.IOD/IOA/Concession/Plan Approval Number	The layout plan for expansion phase will be approved by Nagpur Metro Region Development Authority. in addition to existing shed of about 4000 sq.m. another shed of about 4000 to 5000 sq.m. will be constructed.
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 4000
13.Note on the initiated work (If applicable)	Not Applicable, work will be initiated after receipt of Environmental Clearance & Consent to Establish
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	44,400.00 sq mt
16.Deductions	In internal road, open space, margin from boundary wall & plantation.
17.Net Plot area	Not applicable
18.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.): 4000
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	750000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	One industrial shed area	1	15 Mtr.

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 340-350 no. users including worker & staff after expansion.
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)	10 m approach road form NH-6 (30 m. Wide)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Possibility will be explored to maintain minimum turning radius of 6 mtr.
29.Existing structure (s) if any	Existing Industrial shed where Induction Furnace, Rolling Mill and Tube Mill are installed. Proposed expansion will be carried out in existing shed and additional shed by installing additional furnace of 1 x 7 TPH & 2 x 15 TPH and 2 no. of Rolling Mill and 7 no. of Tube Mill.
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	M. S. Billets	1925	10175	12100
2	TMT Bars	5000	7000	12000
3	M.S. Pipes	2500	5500	8000

32.Total Water Requirement

Dry season:	**Source of water**	Ground Water
	Fresh water (CMD):	101
	Recycled water - Flushing (CMD):	5.5
	Recycled water - Gardening (CMD):	8.0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	170
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00

Wet season:	**Source of water**	Ground Water
	Fresh water (CMD):	101
	Recycled water - Flushing (CMD):	5.5
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	162
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
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	2.5	12.5	15	0.5	2.5	3.0	2.0	10.0	12.0
Industrial Process	20	47	67	4	9	13	16	38	54
Cooling tower & thermopack	23	57	80	23	57	80	00	00	00
Gardening	1.0	7.0	8.0	1.0	7.0	8.0	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon 2.5-5.0 bgl , Post Monsoon 2.0-4.50 bgl.
	Size and no of RWH tank(s) and Quantity:	Will be elaborated in final 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 :	A underground tank is there for fire fighting as per norms. Additional tank if required will be constructed.

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain will be constructed around the plant area
	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:**	12 KLD
	STP technology:	MBBR Technology packaged type.
	Capacity of STP (CMD):	1 No. 15 KLD capacity
	Location & area of the STP:	Within the plot area
	Budgetary allocation (Capital cost):	Rs. 20 Lacs
	Budgetary allocation (O & M cost):	Rs. 2.0 Lacs per annum
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:**	Slag , Tail cuttings & 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:**	Slag will be used for Hardening of working area, internal road, brick manufacturers, Concreting and Tail Cuttings will be recycled and reused in the Induction Furnace. Fly ash will be sold to brick manufacturer.
	Wet waste:	NA
	Hazardous waste:	Used oil will be sold to authorized recycler vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Within a Plant Boundary
	Area for the storage of waste & other material:	About 600 - 700 sq. m. will be reserved for storing slag, tail cutting and 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):		54 KLD			
Capacity of the ETP:		60 KLD			
Amount of treated effluent recycled :		54 KLD			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Settling 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 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	Induction Furnace	Electricity	1	30	1.6	50 degree centigrade

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity	2 Mw	20 Mw	22 Mw
2	Coal	NA	12000 TPA	12000 TPA
41.Source of Fuel		Electricity from State Electricity Board and Coal from local suppliers		
42.Mode of Transportation of fuel to site		Electricity form transmission line and Coal by tarpaulin covered trucks.		

43.Green Belt Development

Total RG area :	33 % of the total plot area
No of trees to be cut :	00
Number of trees to be planted :	till date about 50 nos. trees are planted and 750 nos. of plant to be planted
List of proposed native trees :	Ashoka, Peepal, Gulmohar, 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	200	deciduous
2	Ficus Religiosa	Peepal	200	semi-deciduous

3	Delonix Regia	Gulmohar	200	semi-deciduous
4	Azardirachta indica	Neem	200	semi-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 :**	State Electricity Board
	During Construction Phase: (Demand Load)	Maximum 100 KVA
	DG set as Power back-up during construction phase	Nil
	During Operation phase (Connected load):	22 MW
	During Operation phase (Demand load):	20 MW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	NA
	Fuel used:	Electricity & Coal, in entire process electricity is main fuel.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Possibilities will be explore to minimize the power consumption by adopting best possible process, equipment etc.

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
Induction Furnace and Rolling mill	Bag Filters and Fume extraction system	Proposed to be Installed Wet scrubbers and Bag Filters

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	Particulate matter	Rs. 1.00 Lac

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	Wet Scrubber, Bag Filters, Water Sprinkler System	Rs.40 Lac	Rs.4 Lac
2	Water Pollution Control	STP & ETP	Rs.20 lac and Rs.10 Lac	Rs.2 lac and Rs.1 Lac
3	Solid Waste Management	Handling and Disposing	Rs.10 lac	Rs.3 lac
4	Green Belt	Plantation	Rs.5 Lac	Rs.0.5 Lac
5	Environmental Monitoring	Air quality, Water and Wastewater Quality, Noise levels, Soil quality	--	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 proposed site is located about 200 m away from NH-6 of 30 m. width.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	5328 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:	35 to 40 trucks/day will be operated after commissioning of proposed unit for transportation of raw material and finished product.
	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	NA
	Category as per schedule of EIA Notification sheet	3(a)
	Court cases pending if any	NA
	Other Relevant Informations	Application for the TOR
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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 isused by MoEF & CC published in April, 2015. PP has obtianed earleir EC vide No. SEAC-2016/CR-242/TC-1 dated 12.05.2017.

Public Hearing is applicable as per EIA Notification, 2006.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during 140th 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

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.
2) PP to submit their plan for sustained water supply either from MIDC or from rain water harvesting along with calculations.
3) PP to submit slag disposal plan.
4) PP to submit their plan for reuse, recycle, disposal of fly ash.
5) PP to submit copy of on site/ off site emergency plan.
6) PP to carry out life cycle analysis to identify sustainability index, ozone depletion and green house potential.
7) PP to submit details of proposed CSR activities in consultation with the district collector.
8) PP to submit Traffic Impact Study commenting on existing traffic in side and out side, proposed traffic increase and its impact of near by road and mitigation measures.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.