158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-3 **Meeting Date** January 4, 2019

Subject: Environment Clearance for Storage of Chlorine 50 TPD & DG Set Installation of 6750 KVA (Existing 4500 KVA + Proposed 2250 KVA)

Is a Violation Case: No

1.Name of Project	Sterlite Technologies Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Arun Gandhi
4.Name of Consultant	Gaurang Environmental Solutions
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No. A- 1/7
9.Taluka	Aurangabad
10.Village	Shendra
Correspondence Name:	Sterlite Technologies Ltd , MIDC Shendra, Aurangabad. Maharashtra-India
Room Number:	Plot No. A-1/7
Floor:	NA
Building Name:	NA
Road/Street Name:	Shendra MIDC Road
Locality:	Shendra MIDC
City:	Aurangabad
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 45377
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	101805.11
16.Deductions	10180
17.Net Plot area	91624.60
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 45377
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 25-05-2018
19.Total ground coverage (m2)	23244.72
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0.25
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	SiCl4 Plant	5	Approx. 30
2	Shed for DG Set	1	10

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)	18
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9
29.Existing structure (s) if any	Glass Plant
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	Silicon Tetra Chloride	0	500	500

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	51
	Recycled water - Flushing (CMD):	16
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	69
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	46
	Recycled water - Flushing (CMD):	16
	Recycled water - Gardening (CMD):	1
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	63
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	46	4	50	14	1	15	32	3	35
Industrial Process	247	3	250	209	1	210	38	2	40
Cooling tower & thermopack	1262.6	42	1304.6	863.6	31	894.6	399	11	410
Gardening	24.4	2	26.4	24.4	2	26.4	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon : 5.0-8 m bgl Post monsoon : 3.0-5.0 m bgl
	Size and no of RWH tank(s) and Quantity:	Will be elaborate in EIA Report
	Location of the RWH tank(s):	Will be elaborate in EIA Report
	Quantity of recharge pits:	Will be elaborate in EIA Report
	Size of recharge pits :	Will be elaborate in EIA Report
	Budgetary allocation (Capital cost) :	10 Lakh
	Budgetary allocation (O & M cost) :	1 Lakh
	Details of UGT tanks if any :	Will be elaborate in EIA Report
35.Storm water drainage	**Natural water drainage pattern:**	1m wide drainage & connected to Natural MIDC Drainage
	Quantity of storm water:	Will be elaborate in EIA Report
	Size of SWD:	Will be elaborate in EIA Report
Sewage and Waste water	**Sewage generation in KLD:**	3
	STP technology:	Existing STP Consists of AERATION TANK + Tube Settler + Collection Tank + TREATED WATER TANK
	Capacity of STP (CMD):	1 No. 75 KLD
	Location & area of the STP:	Near Parking
	Budgetary allocation (Capital cost):	55 Lakhs
	Budgetary allocation (O & M cost):	5 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Civil Construction Waste, Packing Waste, Steel Waste
	Disposal of the construction waste debris:	To be stored in dedicated storage yard and will be sold to authorized vendor
Waste generation in the operation Phase:	**Dry waste:**	Office waste: 50 Kg/Month, Plastic Waste: 100 Kg/Month, Corrugated boxes: 240 Kg/Month
	Wet waste:	Canteen Waste: 100 Kg/Month
	Hazardous waste:	Sludge From Water Treatment: 120 TPM, Waste Oil: 2.5 TPM
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	800 Kg/Month
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Sale to Recycler/Reuser/Reprocessor
	Wet waste:	Sale to Recycler/Reuser/Reprocessor
	Hazardous waste:	To CHWTSDF/Recycler/Reuser/Reprocessor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sale to Recycler/Reuser/Reprocessor
	Others if any:	NA
Area requirement:	**Location(s):**	Internal Area
	Area for the storage of waste & other material:	500 sqm
	Area for machinery:	0
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50 Lakhs
	O & M cost:	10 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	From Cooling Tower	RO	high TDS and neutral pH	As Per MPCB Norms	BOD<100, COD<150, TDS<2100
2	Scrubber Waste Water	ETP/MEE	salts of sodium silicate and SiO2	As Per MPCB Norms	BOD<100, COD<150, TDS<2100
3	For Sludge Handling	Filter Press/ Centrifuge	Salts	As Per MPCB Norms	BOD<100, COD<150, TDS<2100

Amount of effluent generation (CMD):	16
Capacity of the ETP:	750 CMD
Amount of treated effluent recycled :	16 CMD
Amount of water send to the CETP:	This is ZLD plant
Membership of CETP (if require):	NA
Note on ETP technology to be used	Existing ETP Consists of COLLECTION TANK + TUBE SETTLER & FOCULATOR + ULTRA FILTRATION + MEE
Disposal of the ETP sludge	To CHWTSDF/Recycler/Reuser/Reprocessor

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Sludge From Water Treatment	34.3	TPM	250	120	370	CHWTSDF/Recycler/Reuser/Reprocessor
2	Sludge From Water Treatment	34.3	TPM	250	120	370	CHWTSDF/Recycler/Reuser/Reprocessor

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	Process Vent Scrubber	NA	1	30	0.5	40
2	Emergency Vent Scrubber	NA	1	30	0.5	40

3	Emergency Chlorine Scrubber	NA	1	20	0.3	40
4	Proposed DG Set	HSD (394 Kg/Hr)	1	30	0.45	65

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	700 LPH	350 LPH	1050 LPH
41.Source of Fuel		Diesel Authorized Distributor		
42.Mode of Transportation of fuel to site		By Tanker/Barrel		

43.Green Belt Development	**Total RG area :**	33000 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	1500
	List of proposed native trees :	Neem, Nandrulk , Sita Ashok, Shirish , Royal Palm, Palas, Maharukh, Laxmi Taru
	Timeline for completion of plantation :	5 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	NEEM	1000	Medicinal Value
2	Azadirachta indica	NEEM	1000	Medicinal Value
3	Saraca asoca	Sita Ashok	300	Beautification
4	Roystonea regia	Royal Palm	50	Beautification
5	Buteamono sperma	Palas	100	Beautification
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	Hibiscus rosa-sinensis	2m	1000
2	Lantana camara	2m	1000
3	Nerium indicum	2m	1000
4	Zizyphus xylopyra	2m	1000

47.Energy

Power requirement:	**Source of power supply :**	State Electricity Board
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	0.5 MW
	During Operation phase (Demand load):	0.5 MW
	Transformer:	Yes
	DG set as Power back-up during operation phase:	6750 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Street Light on Solar Energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Street Light	5 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Vent Scrubber	0	Stack Height - 30 m With HCl Analyser
Emergency Vent Scrubber	0	Stack Height - 30 m With HCl Analyser
Emergency Chlorine Scrubber	0	Stack Height - 30 m With Chlorine Sensor
DG Set	0	Stack Height - 30 m

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25 Lacks
	O & M cost:	2.5 Lacks

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Sanitation	Water Supply	20

2	Safety	Onsite Safety with Work permit system	30

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Automation	SRV's, RD's, Interlocks F&G detection system	500	25
2	Scrubbers	Process Vent, Emergency Vent and Chlorine Vent	390	50
3	Fire and Safety	Fire Hydrant, Pumping Stations	900	50
4	Green Belt	Plantation	100	10
5	Rain water Harvesting	Collection of Rain Water	10	1
6	Solar	Street Light	25	2.5
7	Energy Comsumption	Condensate recovery system	25	2.5
8	HW/SW Management	Handling and Disposal Facility	100	10
9	Acoustic Enclosure	Prevent Noise and Vibration	25	2.5
10	Environmental Monitoring	Air, Water, Noise, Soil Monitoring	25	2.5
11	Online Monitoring	Stack and ETP Online Monitoring	25	2.5

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Chlorine	Anhydrous	Storage Yard	55	50	430	Local Vendor	By Road in Tanker
Caustic Lye	Liquid	Scrubber	20	15	60	Local Vendor	By Road in Tanker
Silicon Tetra Chloride	Liquid	Storage Yard	100	90	500	Inhouse	By Pipeline

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2

Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	10000 sqm
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	10
	Number of 4-Wheelers as approved by competent authority:	10
	Public Transport:	Available
	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	6 (b)
	Court cases pending if any	NO
	Other Relevant Informations	NO
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

During deliberations with the PP and their accredited consultant, it is observed that, total plot area is not sufficient for development of mandatory 33% green belt. PP proposes 20% green belt within the plot area and is willing to compensate deficit by development of the green belt on other plot Nos. D-199,200 owned by them in the same MIDC.

In view of above, SEAC decided to refer the matter to the SEIAA for guidance whether deficit to achieve 33% green belt can be compensated through plantation on other plot owned by PP in the same MIDC for compliance of the condition as stipulated in the OM issued by MoEF&CC dated 09.08.2018.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-3 **Meeting Date** January 4, 2019

Subject: Environment Clearance for Environmental Clearance for proposed expansion project of Aims Impex Pvt. Ltd. for production capacity enhancement and introduction of new products.

Is a Violation Case: No

1.Name of Project	M/s Aims Impex Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Suresan K. P.
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion, Schedule 5 (f), Category - B1 under EIA Notification 2006.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No.
8.Location of the project	948/2,Sinnar Taluka Audyogik Sahakari Vasahat Maryadit, Musalgaon, Taluka Sinnar, District Nashik– 422112, Maharashtra
9.Taluka	Sinnar
10.Village	Musalgaon
Correspondence Name:	Mr. Suresan K. P.
Room Number:	1004
Floor:	10th Floor
Building Name:	'B' Wing, Peninsula Tower
Road/Street Name:	G.K.Marg
Locality:	Lower Parel
City:	Mumbai – 400 013.
11.Area of the project	STICE Industrial Area.
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 10391
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	28300
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 6881
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 21-05-2018
19.Total ground coverage (m2)	10391
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
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	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Width of the road from the nearest fire station is 6 meters wide.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius of 9 meters is provided within the plot premises.
29.Existing structure (s) if any	Admin block, ware houses, office, manufacturing plant-1, manufacturing plant-2, F.G. Stores, ETP, cooling tower, boiler house, fuel storage area, maintenance room, D.G. room, Canteen, changing room, F.G. warehouse, etc are present on project plot.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Coumarin	30	220	250
2	Salicylaldehyde	30	220	250
3	Cyclocitral and other speciality flavour fragrance ingredients.	-	42	42
4	6 Methyl Coumarin and substituted coumarin dervatives	-	5	5
5	Specialty Aldehydes like Safranal (With Brand name)	-	2.5	2.5
6	By- Products	-	-	--
7	Recovered Acetic acid	37.50	220	257.50
8	Recoloured Discoloured Sodium Sulphate	58.33	0 (Production will stopped)	-
9	Recoloured Discoloured Boric Acid	20.00	0 (Production will stopped)	-
10	Recovered Coumarin isomer	0.42	0 (Production will stopped)	-

11	Recovered Phenolic Resin Intermediates	2.50	0 (Production will stopped)	-
12	Magnesium Chloride or Magnesium Oxylate or Magnesium sulphate as anhydrous salt or as aqueous solution (Equivalent to Anhydrous salt)	0.0	175	175.00
13	Methyl formate	0.0	50	50.00
14	Dilute H2SO4	0.0	542.17	542.17
15	Ammonium Sulphate	0.0	47.25	47.25
16	HBr	0.0	4.83	4.83

32.Total Water Requirement

Dry season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	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	5	10	15	-	3	3	5	7	12
Industrial Process	6	50	56	5.6	2.75	8.35	0.4	47.25	47.65
Cooling tower & thermopack	15	173	14.9	14.9	162.1	177	0.1	10.9	11
Gardening	4	12	4	4	12	16	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Average premonsoon water level of Sinnar is 18.36 mbgl
	Size and no of RWH tank(s) and Quantity:	The rain water collected from roof top will be connected to the RWH tank of capacity 20 CMD.
	Location of the RWH tank(s):	Next to UG Tank.
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	1,00,000
	Budgetary allocation (O & M cost) :	5,000
	Details of UGT tanks if any :	Details of UGT Tanks if any: (Details of fire fighting water storage tank) Fire Fighting tank of 100 CMD capacity & U. G. Tank of 50 CMD x 2 nos. – 100 CMD

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drains of adequate capacity will be provided along the boundaries of the plot.
	Quantity of storm water:	1274 m3/hr.
	Size of SWD:	The SWD having dimension of 0.6 m width X 0.6m depth X 452.02 m length along the plant boundary.

Sewage and Waste water	**Sewage generation in KLD:**	12.0 KLD
	STP technology:	Sewage waste water will be treated in the aeration tank of the effluent treatment plant.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris will be generated after construction of proposed structures.
	Disposal of the construction waste debris:	It will be used within the plant premises for levelling purposes and the metal scrap will be sold to authorised vendors.
Waste generation in the operation Phase:	**Dry waste:**	M.S Scrap - 10.0 MT/A, Wooden Palate - 1000 Nos/A, Paper Waste - 100 Kg/M, Battery Waste - 5 Kg/A, E-Waste - 5 Kg/A.
	Wet waste:	NA
	Hazardous waste:	Residue & Waste - 67 MT/ M, Discarded Container/Barrels/ Liners - 1000 nos./ Annum, ETP Sludge - 19.2 MT/A, MEE Residue - 300 MT/M, Spent oil - 0.2 MT/M, Distillation Residue - 78.5 MT/M, Spent solvents - 0.3365 MT/M
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Sold to authorised vendors
	Wet waste:	NA
	Hazardous waste:	The recyclable wastes like Discarded Container/Barrels/ Liners, spent oil, spent solvents, will be sold to approved recyclers, other hazardous waste will be sent to CHWTSDF, Ranjangaon for disposal.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Dedicated Hazardous Waste storage area of 40 sq. m. will be provided near ETP Area.
	Area for the storage of waste & other material:	Dedicated Hazardous Waste storage area of 40 sq. m. will be provided
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5 lakhs
	O & M cost:	25 lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.8	7.2	5.5-9
2	TDS	mg/l	35,000	100	2100
3	BOD	mg/l	4700	12	250
4	COD	mg/l	12500	30	30
5	O & G	mg/l	6.6	BDL	10
Amount of effluent generation (CMD):		70.65			
Capacity of the ETP:		75 CMD			
Amount of treated effluent recycled :		The treated effluent will be entirely reused for cooling tower – makeup. It is a ZLD project.			
Amount of water send to the CETP:		Nil. Company will operate as a ZLD unit.			
Membership of CETP (if require):		Not Applicable. Company will operate as a ZLD Unit.			
Note on ETP technology to be used		The Company will operate as ZLD Unit. Effluent streams will be segregated as High TDS, High COD and low conc. Streams depending on their characteristics will be treated separately . The high TDS effluent will be treated through an MEE,ATFD, the condensates along with low conc. effluent and sewage will be treated in aeration tank of ETP. The boiler and cooling tower blowdowns will be sent to R.O after primary treatment and the R.O reject will be sent to MEE. The industry will operate as a ZLD uni			
Disposal of the ETP sludge		ETP sludge will be disposed off to CHWTSDF, Ranjangaon.			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residue & Waste	28.1	MT/M	0.1	66.9	67	To CHWTSDF
2	Discarded Container/Barrels/ Liners	33.3	Nos/ Annum	200	800	1000	To authorized recyclers
3	ETP Sludge	34.3	MT/A	2.0	17.2	19.2	To CHWTSDF
4	MEE Residue	37.3	MT/M	-	300	300	To CHWTSDF/ sold to authorized vendors
5	Spent oil	5.1	MT/M	-	0.2	0.2	To authorized recyclers
6	Distillation Residue	36.1	MT/M	-	78.5	78.5	To CHWTSDF/To Authorised recyclers
7	Spent solvents	28.6	MT/M	-	0.3365	0.3365	To authorized reprocessors

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	(Existing) 2 MT/Hr steam boiler	Coal: 4.2 MT/D (for all the existing utilities)	1	30	0.8	140-160°C
2	(Existing) 4 lakh kcal Thermic Fluid Heater	Coal: 4.2 MT/D (for all the existing utilities)	1	30	0.8	140-160°C
3	(Existing) 10 lakh kcal Thermic Fluid Heater	Coal: 4.2 MT/D (for all the existing utilities)	1	30	0.8	140-160°C
4	(Existing) 225 kVA Diesel Generator	High Speed Diesel : 30 Kg/hr (40 L/Hr)	1	3.0 (above roof level)	0.1	156°C

5	(Proposed) 6 MT/Hr steam boiler	Coal : 16 MT/D Or Briquette : 21 MT/D	1	32	1.2	140-160°C
6	(Proposed) 10 lakh kcal Thermic Fluid Heater	Coal : 07 MT/D Or Briquette : 9 MT/D	1	30	0.8	140-160°C
7	Scrubber	-	3	5m (above roof level)	0.2	30°C
8	(Proposed) 500 KVA Diesel Generator	High Speed Diesel : 75 Kg/Hr (100 L/Hr)	1	4.5 m above roof top level	0.4	160-180°C
9	(Proposed) 500 KVA Diesel Generator	High Speed Diesel : 75 Kg/Hr (100 L/Hr)	1	4.5 m above roof top level	0.4	160-180°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal/Briquette	4.2 MT/D/--	23 MT/D / 30 MT/D	27.2 MT/D / 30 MT/D
2	High speed diesel	30 Kg/Hr (40 L/Hr)	150 Kg/Hr (200 L/Hr)	180 Kg/Hr (240 L/Hr)
41.Source of Fuel		Coal : Local Supplier Briquette : Local Supplier High speed diesel: Local HP vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	9339.0 sq. m.
	No of trees to be cut :	NA
	Number of trees to be planted :	1401 Nos.
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleichera oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Pongamia pinnata, Neolamarckia cadamba, Pterospermum acerifolium, Dalbergia sissoo, Pongamia pinnata
	Timeline for completion of plantation :	3 years after grant of environmental clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	67	Native tree of forest tracts of Sahyadri ranges having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	67	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	67	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index
4	Macaranga peltata	Chandwar	67	A native tree found in abundance across the plains of Sahyadri ranges

5	Schleichera oleosa	Kusum	67	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	67	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	67	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	67	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	67	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	67	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	67	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainsadada	67	A native deciduous tree of forest tracts of Sahyadri ranges
13	Butea monosperma	Palash	67	A native brilliantly flowering tree abundant the Palghar District visited by large number of birds
14	Oroxylum indicum	Tetu	67	A native ornamental tree
15	Erythrina suberosa	Pangara	67	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
16	Azadirachta indica	Kadulimb	67	A native evergreen tree capable of surviving in comparatively polluted environs
17	Dalbergia sissoo	Shisham	67	A native evergreen tree attracting large number of insects
18	Trema orientalis	Ghol	67	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index
19	Pongamia pinnata	Karanj	67	A native deciduous tree well suited to intense heat and sunlight and drought tolerant.
20	Neolamarckia cadamba	Kadamba	67	A native evergreen tree with tremendous blooms attracting large number of insects
21	Pterospermum acerifolium	Karnikar	61	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	63 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	1725 KW
	During Operation phase (Demand load):	1475 KVA
	Transformer:	1475 KVA
	DG set as Power back-up during operation phase:	1 x 225 KVA , 2 x 500 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar power will be used for office building and street lights.

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	Stack height of 30m each have been provided to existing boiler & 2 nos of thermopac having capacities 2 MT/Hr, 4 Lakh Kcal/Hr & 10 Lack kcal/Hr respectively to ensure effective dispersion of pollutants. 4m stack height for existing D. G set of 225 KVA capacity .	• Stack of 32m will be provided to the proposed boiler of capacity 6 MT/Hr • Stack of 30m will be provided to the proposed thermopac of capacity 10 Lakh Kcal/Hr • Stack of 5 m (above roof) will be provided to the proposed Alkaline scrubber • Stack of 4.5m (above roof top) each will be provided to the proposed 2 nos of D.G. set of capacity 500 KVA. • The existing boilers are provided with cyclone seperators, however the proposed boilers will be provided with multicyclone seperators followed by ba
Water.	ETP of 1 CMD capacity comprising of Primary, Secondary and Tertiary Treatment.	The company will operate as a ZLD unit ETP of 75 CMD capacity will be provided
Noise	Acoustic enclosures have been provided to D.G Sets. Preventive maintenance of all the noise generating equipments is/will be done	Acoustic enclosures will be provided to the proposed D.G Sets. A thick green belt will be provided on the periphery of the plant premises.
Solid hazardous waste	The hazardous waste is stored in a separate demarcated area, the recyclables are sent to authorized vendors and the rest are sent to CHWTSDF for disposal	Existing pollution control systems are sufficient for the proposed expansion

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	500000
	O & M cost:	10000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Installation of individual stack for new boiler and thermopack of capacities 6 MT/Hr & 10 MT/Hr respectively	36	4
2	Water	Construction, erection and commissioning of ETP, MEE, ATFD for treatment of domestic as well as industrial effluent generated after proposed expansion activity.	600	60
3	Noise	Providing acoustic enclosures and installation of shock absorbers & vibration absorbing pads	5	2
4	Occupational Health	Purchase of PPE's and health check ups	5	2
5	Green Belt	Development of green belt	5.0	3.0
6	Solid Waste	Purchase of solid waste storage bags, containers. Cost for disposal of waste to CHWTSDF, Ranjangaon.	5	300
7	Rain water harvesting	Provision of RWH system along with above ground collection tank of 20 CMD.	1	0.05

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Salicylaldehyde	Liquid	Enclosed shed	211	150	211	Import	Drums/Ship/Road
Acetic Anhydride	Liquid	Enclosed shed	294	100	294	Import/ Local	Ship /Tanker/ Road

Xylene	Liquid	Enclosed shed	175	100	175	Local	Drums/ Road
Phenol	Liquid	Enclosed shed	250.25	100	250.25	Local	Drums/ Road
HCL	Liquid	Enclosed shed	87.5	50	87.5	Local	Tanker/ Road
Ammonia liquor	Liquid	Enclosed shed	71.35	25	71.35	Local	Tanker/ Road
Sulphuric Acid	Liquid	Enclosed shed	264.29	50	264.29	Local	Tanker/ Road
Methanol	Liquid	Enclosed shed	71	10	71	Local	Tanker/ Road
Citral Super	Liquid	Enclosed shed	83.3	50	83.3	Local	Drums/ Road
Cyclocitral	Liquid	Enclosed shed	4.375	2	4.375	Local	Drums/ Road
Di methyl Formamide	Liquid	Enclosed shed	13.125	3	13.125	Local	Drums/ Road
Cyclohexane	Liquid	Enclosed shed	65.6	25	65.6	Local	Drums/ Road
Aniline oil	Liquid	Enclosed shed	44.6	15	44.6	Local	Drums/ Road
Liquid Bromine	Liquid	Enclosed shed	4.8	0.3	4.8	Local	Bottles/ Road
n-Hexane	Liquid	Enclosed shed	2.25	0.5	2.25	Local	Drums/ Road
Vitamin E	Liquid	Enclosed shed	0.25	0.1	0.25	Local	Drums/ Road
Oxalic Acid	Solid	Enclosed shed	40	20	40	Local	Bags/ Road
Paraformaldehyde	Solid	Enclosed shed	319.25	100	319.25	Import	Ship/Bags/ Road
Mg Turning	Solid	Enclosed shed	34.75	20	34.75	Local	Bags/Drum/ Road
NaHCO3	Solid	Enclosed shed	12.5	5	12.5	Local	Bags/ Road
Para Cresol	Solid	Enclosed shed	9.73	5	9.73	Local	Drums/ Road
Fumaric Acid	Solid	Enclosed shed	11.025	5	11.025	Local	Bags/ Road
Soda Ash	Solid	Enclosed shed	3.648	1	3.648	Local	Bags/ Road
Zinc Chloride	Solid	Enclosed shed	1.1	0.5	1.1	Local	Bags/ Road
Sodium Acetate	Solid	Enclosed shed	1.8	0.5	1.8	Local	Bags/ Road
Magnesium Sulphate (Supercell EP)	Solid	Enclosed shed	8.9	2	8.9	Local	Bags/ Road
Lithium Carbonate	Solid	Enclosed shed	3.05	0.5	3.05	Local	Bags/ Road
PTSA Catlyst	Solid	Enclosed shed	0.005	0.005	0.005	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:	2830.0 sq. m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

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

PP to ascertain and submit notification stating that existing plot is located in the Notified Industrial Estate/Park/Area. In absence of the credible documents regaridng notified Industrial Estate/Park/Area, PP to carry out Public Consultation as per procedure stipulated in the EIA Notification 2006 and submit complinace report of the issues raised during Public Consultation.

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

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

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

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to submit strom water drain and rain water harvesting drawing superimposing contour levels on the layput.
4) PP to submit undertaking for not violating the requriements of EIA Notification, 2006.
5) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc
6) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
7) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
8) PP to carry out HAZOP and QRA and submit disaster management plan.
9) PP to submit hazardous chemical handling protocol
10) PP to submit technical note on how propsoed expansion will be acocmodated in the exisitng faclity along with structural stability certificate of existing buildings.
11) PP to explore possiblity to optimize process and production technology to reduce generation of liquid/solid/gaseous wastes and include the same in the EIA reprot.
12) PP to include water and carbon foot print monitoring in the monitoring schedule and EMP.
13) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

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 Meeting number: 158th (B) ,Day-3 **Meeting Date** January 4, 2019

Subject: Environment Clearance for Environmental Clearance for enhanced production capacity of Agro, Pharmaceutical & Specialty chemicals intermediates.

Is a Violation Case: No

1.Name of Project	M/s Benzochem Industries Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s Benzochem Industries Pvt. Ltd.
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt Ltd
5.Type of project	Industrial Estate (Expansion)
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, consent was obtained which is granted from 01/10/2015 and valid to 30/09/2021
8.Location of the project	Plot No. B-26, 27 & 14, 5 MIDC Area Dasarkhed.
9.Taluka	Malkapur
10.Village	Dasarkhed
Correspondence Name:	Not Applicable
Room Number:	Not Applicable
Floor:	Not Applicable
Building Name:	Not Applicable
Road/Street Name:	Not Applicable
Locality:	Not Applicable
City:	Not Applicable
11.Area of the project	Grampanchyat Dasarkhed
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 7856.36
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.)	33350 sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 8747.72
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 01-01-1900
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	202200000

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	9 m
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Packaging & Liquid Product Storage Area of 50.26 sq.m will be demolished . Demolition waste shall be used for landfilling within premises.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Para Chloro Benzyl Chloride/ Para Chloro Benzyl Cyanide/ Para Fluro Benzaldehyde/ Para Chloro Benzaldehyde/ Para Chloro Phenyl Acetic Acid/ Para Chloro Methyl Ether/ Para Chloro Benzo Tri Chloride	58 MT/M	0	0
2	OR	-	-	-
3	Ortho Chloro Benzyl Chloride/ Ortho Chloro Cyanide/ Ortho Chloro Phenyl Acetic Acid/ Ortho Chloro Benzaldehyde/ 2,4,6 Tri Methyl Phenyl Acetic Acid/ 2,4,6 Tri Methyl Phenyl Acetyl Chloride/ Methyl 2-Chloro Phenyl Acetate	58 MT/M	0	0
4	OR	-	-	-

5	2,4 Di Chloro Benzaldehyde/ 2,4 Di Chloro Benzyl Chloride/ /2,4 Di Chloro Benzyl Cyanide/ 2,4 Di Chloro Phenyl Acetic Acid / 2,4 Di Chloro Phenyl Acetyl Chloride/2,4 Di Chloro Toluene / Meta Chloro Benzyl Chloride/ Meta Chloro Benzyl Cyanide/ Meta Chloro Phenyl Acetic Acid/ Meta Chloro Benzaldehyde	58 MT/M	0	0
6	OR	-	-	-
7	2,5 Di Methyl Phenyl Acetic Acid/ 2,5 Di Methyl Phenyl Acetyl Chloride / Di Chloro Ortho Xylene/ Tetra Chloro Ortho Xylene/ Ortho Methyl Benzyl Chloride/ Ortho Methyl Benzyl Cyanide/ Ortho Methyl Phenyl Acetic Acid/ 2 Chloro 4,6 Di Methoxy 1,3,5 Triazine/ Benzaldehyde 2, 4-Disulphonic Acid Di Sodium Salt	58 MT/M	0	0
8	Agro Intermediates:	0	Para Chloro Benzyl Chloride, Para Chloro Benzyl Cyanide, Para Chloro Phenyl Acetic Acid, Para Chloro Benzo Tri Chloride, Ortho Chloro Phenyl Acetic Acid, 2,4,6 Tri Methyl Phenyl Acetyl Chloride, 2,4 Di Chloro Phenyl Acetyl Chloride, 2,4 Di Chloro Phenyl Acetic Acid, 2,4 Di Chloro Benzaldehyde, Ortho Methyl Benzyl Chloride, 2,5 Di Methyl Phenyl Acetic Acid, 2,5 Di Methyl Phenyl Acetyl Chloride, Para Chloro Benzyl Cyanide 75% Solution in N-Butyl Acetate, 1-Napthyl Acetonitrile, Isopropy	135 MT/M

9	Speciality Chemicals Intermediates	0	Ortho Anisoyl Chloride 75% Solution in Ethylene Dichloride, aa Di Chloro Para Xylene, Benzaldehyde 2,4 Di Sulphonic Acid Di Sodium Salt (Powder), Benzaldehyde 2,4 Di Sulphonic Acid Di Sodium Salt (Liquid), Benzaldehyde Ortho Sulphonic Acid Sodium Salt.-10 MT/M	10 MT/M
10	Pharma Intermediates:	0	Para Chloro Benzaldehyde, Meta Chloro Benzyl Chloride; Meta Chloro Benzyl Cyanide, Meta Chloro Phenyl Acetic Acid, Meta Chloro Benzaldehyde, 2,4 Di Chloro Benzyl Cyanide; 2,4 Di Chloro Benzyl Chloride, Ortho Methyl Benzyl Cyanide, Ortho Methyl Phenyl Acetic Acid, Ortho Chloro Benzyl Chloride, Ortho Chloro Cyanide, Ortho Chloro Benzaldehyde, Methyl 2-Chloro Phenyl Acetate, 2-Phenyl Acetyl Chloride, 2-Bromo Benzyl Cyanide, 4-Bromo Benzyl Cyanide -75 MT/M	75 MT/M
11	By Products	-	-	-
12	Hydrochloric Acid	30	20	50
13	Sodium Chloride	9.4	2.6	12
14	Hydrbromic Acid	0	3	3
15	Sodium Sulphite	0	20	20
16	Ammonium Sulphate	0	5	5
17	Sodium Bromide	0	3	3
18	Mixed Solvent	0	1	1
19	Ammonia solution	0	35	35

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	8.0	4.0	12	2.0	0.0	2.0	6.0	4.0	10
Industrial Process	5.0	31.4	36.4	1.15	0.0	0.0	3.85	32.55	36.4
Cooling tower & thermopack	120	166.9	286.9 (126 Condensate recycle)	111	29.2	140.2	9.0	11.7	20.7
Gardening	10	45	55	10	45	55	0.0	0.0	0.0

Fresh water requirement	143	247.3	390.3	124.15	74.2	198.35	18.85	48.25	67.1

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	More than 20 m bgl
	Size and no of RWH tank(s) and Quantity:	Quantity -50000 Liter is provided
	Location of the RWH tank(s):	Towards North East of the plot
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	4 lakhs
	Budgetary allocation (O & M cost) :	15,000/-
	Details of UGT tanks if any :	UGT tanks : 1 No. Existing & 1 No. Proposed Existing UG Tank capacity : 50,000 Lit & Proposed UG Tank capacity : 3 Lakh/Lit (size : 3m diameter).
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drains of adequate capacity will be provided.
	Quantity of storm water:	7.2 m3/hr
	Size of SWD:	The SWD will be designed as per the quantity of storm water to be received during the rainy season.
Sewage and Waste water	**Sewage generation in KLD:**	10 CMD
	STP technology:	Septic tank overflow will be mixed with aeration Tank.
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Demolition & Construction wastes such as debris, scraps, excavated soil, cement bags, iron/steel scraps & cardboards.
	Disposal of the construction waste debris:	Construction waste will be landfilled within plot.
Waste generation in the operation Phase:	**Dry waste:**	Coal ash : Qty -117.46 MT/month
	Wet waste:	Not Applicable
	Hazardous waste:	Chemical sludge from waste water treatment (1.5 MT/D) , Empty bags(52 nos.), Empty drums(8nos.) , Distillation Residue (1.167 MT/M) & MEE residue, (364 Kg/M), Waste oil (20 Kg/M) &Spent solvent (52Kg/M).
	Biomedical waste (If applicable):	Cat. yellow -Soiled waste (Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components) – 8 kg/A, cat. yellow-Expired medicines (Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs or plastic

Mode of Disposal of waste:	**Dry waste:**	Through local municipal waste disposal system or authorised recycler/ re-processor/brick manufacturer.
	Wet waste:	Not Applicable
	Hazardous waste:	Chemical sludge from waste water treatment, Empty bags, Empty drums, Distillation Residue & MEE residue will be disposed to CHWTSDF, Waste oil & Spent solvent will be disposed to CHWTSDF or sold to authorized recycler.
	Biomedical waste (If applicable):	Disposal to CBMWTF/ MPCB authorised processor for Buldana region.
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	E-Waste Mode of Disposal: Sale to MPCB authorised recycler/returned to manufacturer/supplier; Battery Waste Mode of Disposal: Sale to supplier/MPCB authorised party.
Area requirement:	**Location(s):**	Dedicated hazardous waste storage area will be provided as per the project plot layout.
	Area for the storage of waste & other material:	100 sq.m
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	2 lakhs/ year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	1.16	7.5	6.0 - 8.5
2	TDS	mg/l	22300	370 mg/l	<2100
3	BOD	mg/l	1028	7.2 mg/l	<100
4	COD	mg/l	3000	20 mg/l	<250
5	O & G	mg/l	2.4	< 1 mg/l	<10

Amount of effluent generation (CMD):	Total industrial effluent shall be 57.1 CMD and domestic effluent shall be 10 CMD
Capacity of the ETP:	100 CMD
Amount of treated effluent recycled :	56.76 CMD
Amount of water send to the CETP:	--
Membership of CETP (if require):	--
Note on ETP technology to be used	--
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation Residue	20.3	MT/M	0.5	1.167	1.667	CHWTSDF
2	Chemical Sludge from waste water Treatment	35.3	MT/M	0.5	1.5	2.0	CHWTSDF
3	MEE residue	37.3	Kg/M	-	364	364	CHWTSDF
4	Waste oil	5.1	Kg/M	-	20	20	CHWTSDF/ authorized recycler

5	Empty bags	33.1	No./M	-	52	52	CHWTSDF
6	Empty drums	33.1	No./M	-	8	8	CHWTSDF
7	Spent solvent	20.2	Kg/M	-	52	52	CHWTSDF/ 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	Existing Common Stack attached to Boiler & Thermopack	Coal/Agro waste	1	30.5 m	1.0 m	280-300°C
2	Proposed Common Stack attached to Boiler & Thermopack	Coal/Agro waste	1	30 m	1.0 m	280-300°C
3	Stack attached to DG set	HSD	1 No. Existing & 1 No. proposed	3 m above roof	0.25 m	80-90°C
4	Stack attached to Scrubber	--	3 Nos. Existing 1 No. proposed	5 m above roof	0.153 m	50-60°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal/Agro Waste	23.9 MT/D (995.83 Kg/Hr) Coal/Agro Waste	13.75 MT/D (572.91 Kg/Hr) Coal/Agro Waste	37.65 MT/D (1568.75 Kg/Hr) Coal/Agro Waste
2	HSD	(60 Lit/Hr) HSD	(194 Lit/Hr) HSD	(254 Lit/Hr) HSD
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	11005 sq.m
	No of trees to be cut :	--
	Number of trees to be planted :	Existing no. of trees – 500 Nos. Total no of trees to be planted - 1650 Nos.
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Macaranga peltata, Schleichera Oleosa, Microcos Paniculata, Terminalia elliptica , Terminalia Paniculata , Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Azadirachta Indica , Callicarpa tomentosa, Neolamarckia cadamba, Pterospermum acerifolium
	Timeline for completion of plantation :	2 years after grant of Environmental clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance

1	Cassia fistula	Bahava	75	Native ornamental tree having flowers attracting bees and butterflies.
2	Bombaxceiba	Sawar	61	A native tree with large showy flowers visited by birds.
3	Bombaxceiba	Sawar	61	A native tree with large showy flowers visited by birds.
4	Macaranga peltata	Chandwar	76	A native tree found in abundance across the sahyadri range.
5	Schleichera oleosa	Kusum	68	A native tree found in abundance in Sahyadris.
6	Microcos paniculata	Shirali	50	A native evergreen tree abundantly found across the Sahyadri ranges.
7	Terminalia elliptica	Ain	86	A native evergreen broad leaved tree common in the Sahyadris.
8	Terminalia paniculata	Kindal	68	Kindal is a tropical tree with a large natural distribution in Western Ghats.
9	Terminalia bellirica	Baheda	78	A native medicinally important tree.
10	Cordia dichotoma	Shelu	68	Native deciduous tree attracting various insects.
11	Helicteres isora	Murudsheng	45	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds.
12	Holoptelea integrifolia	Vavala	60	A native tree abundantly found in Buldhana District
13	Buteamonosperma	Palash	58	A native brilliantly flowering tree fed by local birds fairly common and abundant across the Buldhana District.
14	Oroxylum indicum	Tetu	91	A native ornamental tree.
15	Azadirachta Indica	Neem	68	A native evergreen tree known for plantation in polluted area.
16	Callicarpato mentosa	Aisar	66	A native evergreen tree with beautiful flowers & thick hairy leaves which helps in dust settling.
17	Neolamarckia Cadamba	Kadamba	70	A native evergreen tree with thick canopy.
18	Pterospermum acerifolium	Muchkund	62	A native ornamental tree.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	750 KW
	During Operation phase (Demand load):	1000 KVA
	Transformer:	500 KVA X 2 Nos
	DG set as Power back-up during operation phase:	1000 KVA
	Fuel used:	254 Lit/Hr. HSD for DG set during power failure
	Details of high tension line passing through the plot if any:	---

48.Energy saving by non-conventional method:

Solar street lights shall be provided within premises.

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
Emissions from Boiler/TFH	Multi Cyclone Separator is attached to common stack of 30.5 m	Multi-cyclone separator followed by Bag Filter will be attached to common stack of 30.5 m
Process Emission	3 Nos. of Scrubber & stack height of 5 m above roof is provided.	1 No. of Scrubber will be installed & stack height of 5m above roof will be provided.
Noise Pollution & Air Emissions from DG set	Stack height of 3 m above roof is provided	Stack height of 3 m above roof will be provided.
Solid hazardous Waste	Sent to authorized recycler or for disposal to CHWTSDF	Will be sent to authorized recycler or for disposal to CHWTSDF
Waste water	ETP of 60 CMD capacity comprising of primary, secondary & tertiary treatment scheme & MEE of 30 CMD capacity is provided.	ETP of 100 CMD capacity comprising of primary, secondary & tertiary treatment scheme & MEE of 100 CMD capacity and RO plant is proposed.
Solid non-hazardous Waste	sold to authorised re-processor/brick manufacturer/ scrap vendors	sold to authorised re-processor/brick manufacturer/ scrap vendors

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	Air Emission	Dust Suppression	0.50
2	Water Environment	Existing Sanitation facilities will be utilized	0.25
3	Solid Hazardous Waste	Handling, Transportation & disposal of non-hazardous solid waste	2.0
4	Noise Environment	PUC certified vehicles, PPE etc	0.25

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	Bag filter, Construction of Common stack of 30 meters, Scrubber installation (1 No.)	13.85	2.0
2	Water	Upgradation of ETP, MEE & Installation of RO& Maintenance.	350	150
3	Noise	Noise Pollution Control, Installation of anti-vibration pads & Enclosure	--	0.50
4	Environment Monitoring	Quarterly Environment Monitoring : Ambient Air Monitoring (PM10, PM2.5, SO2, NOx, CO) , Work Place Air Monitoring(VOCs & Fugitive Emissions), Boiler & DG Set Monitoring(TPM, SO2, NOx), Effluent Treated & Untreated(pH, COD, BOD, TSS, TDS, Oil & Grease)	3.0	1.0
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear plugs & Annual Health Checkup of workers.	125	20
6	Green Belt	Green Belt development Maintenance	1.0	7.0
7	Rain Water Harvesting	Rain Water Harvesting Tank	4	0.15
8	Solid Waste	Solid Waste Management & Disposal to CHWTSDF	---	2.0

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
Para Chloro Toluene	Liquid	Warehouse	30	30	52.78	Import	Container/ISO Tank
Meta Chloro Toluene	Liquid	Warehouse	30	20	0.26	Import	Container
Ortho Chloro Toluene	Liquid	Warehouse	30	20	2.652	Import	Container
Sodium Cyanide	Solid Prills	NaCN Storage	40	40	55.77	Import/Local	Container
Tri Ethyl Amine	Liquid	Warehouse	1.5	1.0	0.169	Local	Truck
PEG-400	Liquid	Warehouse	1.5	1.0	0.429	Local	Truck
Soda Ash	Solid	Warehouse	5.0	3.0	0.164	Local	Truck
Caustic Soda Flakes	Solid	Warehouse	30	20	68.978	Local/Import	Truck/Container
Caustic Soda Lye	Liquid	Tank Farm	30	30	34.398	Local	Tanker
Hydrochloric Acid (30%)	Liquid	Tank Farm	60	40	368.576	Local	Tanker
Toluene	Liquid (Solvent)"	Solvent Yard	15 KL/ 2 KL	15 KL/ 2 KL	78.364 KL	Import/Local	Tanker
Thionyl Chloride	Liquid	Thionyl Storage	15	15	90	Local	Tanker
Para Xylene	Liquid	Solvent Yard	30 KL	30 KL	100.178 KL	Local/Import	Tanker/ISO Tank
Para Formaldehyde (96%)	Solid	Warehouse	30	20	48.1	Local/Import	Tanker/ISO Tank
Pottasium Carbonate	Solid	Warehouse	4.0	2.0	0.754	Local	Truck
Mesitylene	Liquid	Solvent Yard	30	30	37.492	Import	Container/ISO Tank
Para Formaldehyde Soln. (37%)	Liquid	Warehouse	30	20	41.262	Local	Tanker
Tetra Butyl Ammonum Bromide (50%)	Liquid	Warehouse	1.2	1.1	1.742	Local	Tanker
AzobisIsoButyro Nitrile	Solid	Warehouse	1.0	0.5	0.185	Local	Tanker
Liquid Chlorine	Liquid	Cl2 Tonner Storage Area	21.6	21.6	15.236	Local	Truck
N Butyl Acetate	Liquid	Warehouse	20	15	3.75	Local/Import	Tanker/ ISO Tank
Phenyl Acetic Acid	Solid	Warehouse	10	5.0	0.988	Local	Truck
Ortho Xylene	Liquid	Solvent Yard	30	30	4.264	Local	Truck
Ortho Chloro Benzyl Cyanide	Liquid	Warehouse	25	20	10.01	Import	Container/ISO Tank
Sulfuric Acid	Liquid	Tank Farm	15	10	29.588	Local	Truck
Ortho Chlro Phenyl Acetic Acid	Solid	Warehouse	40	20	10.79	Import	Container
Methanol	Liquid	Solvent Yard	15 KL	15 KL	4.992 KL	Local/Import	Tanker
Sodium Bi carbonate	Solid	Warehouse	2.0	1.0	1.014	Local	Truck
2,4 Di ChloroBenzaldehyde	Solid	Warehouse	12	8.0	4.712	Impoert	Container
Sodium Sulphite	Solid	Warehouse	5.0	3.0	4.29	Local	Truck

Iso Propyl Bromide	Liquid	Warehouse	1.0	1.0	3.562	Local/Import	Truck/container
Benzyl Tri Ethyl Ammonium Chloride (BTEAC)	Liquid	Warehouse	2.0	1.0	3.146	Local	Truck
Hexane	Liquid	Solvent Yard	2.0 KL	2.0 KL	1.04 KL	Local	Truck
Ortho Bromo Toluene	Liquid	Warehouse	5.0	3.0	2.158	Local/Import	Truck
Liquid Bromine	Liquid	Liquid	5.0	3.0	2.99	Local	Truck
Sodium Thio Sulphate	Soild	Liquid	2.0	1.5	0.078	Local	Truck
Para Bromo Toluene	Liquid	Liquid	5.0	3.0	4.29	Local/Import	Truck
2,4 Di Chloro Benzyl Chloride	Liquid	Warehouse	40	20	41.378	Import	Container
Para Chloro Benzaldehyde	Soild	Warehouse	30	20	10	Import	Container
Ortho ChloroBenzaldehyde	Soild	Warehouse	30	20	10	Import	Container
Benzaldehyde Ortho sulfonic acid Sodium Salt	Soild	Warehouse	3.0	3.0	0.5	Import	Truck / Tanker
1-CMN	Soild	Warehouse	3.0	2.0	0.624	Local/Import	Truck / Tanker
Zinc Chloride	Soild	Warehouse	2.0	1.0	4.321	Local	Truck
TEAB	Soild	Warehouse	1.0	0.5	0.26	Local	Truck
Cat. "T"	Liquid	Warehouse	1.5	1.0	0.884	Local	Truck
Cat."P"	Liquid	Warehouse	1.5	1.0	0.884	Local	Truck
Ortho Anisic Acid	Soild	Warehouse	8.0	4.0	9.022	Local	Truck
Para Chloro Benzyl Cyanide	Liquid	Warehouse	40	20	30.06	Import	Container/ISO Tank
Ethylene Dichloride	Liquid	Warehouse	2.0	1.0	3.0	Local	Truck / Tanker

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:	3336.12 sq.m
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Schedule 5(f) & Category B1
	Court cases pending if any	no pending cases.
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

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

DECISION OF SEAC

During deliberations, PP requested to postpone the case.

Hence deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-3 **Meeting Date** January 4, 2019

Subject: Environment Clearance for Proposed Common Biomedical Waste Treatment Facility

Is a Violation Case: No

1.Name of Project	Proposed Common Biomedical Waste Treatment Facility by Kolhapur Municipal Corporation and SS Services
2.Type of institution	Government
3.Name of Project Proponent	Kolhapur Municipal Corporation and SS Services
4.Name of Consultant	SMS Envocare Ltd. Pune
5.Type of project	Other (Proposed Common Biomedical Waste Treatment Facility)
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	C.S. No. 29, Kasba Bavda Kolhapur
9.Taluka	Karveer
10.Village	Kasba Bavda
Correspondence Name:	Mr. Vijay Patil, Health Officer, Kolhapur Municipal Corporation and Abhay kumar Bandu Birnale, Partner, SS Services
Room Number:	814/2/1
Floor:	4th Floor
Building Name:	SHAHIN
Road/Street Name:	Jamadar colony
Locality:	Behind Circuit House
City:	Kolhapur
11.Area of the project	Kolhapur Municipal Corporation area
12.IOD/IOA/Concession/Plan Approval Number	Total 4000 m2 of land has been identified for the facility. Approx. 1 Acer land is already acquired. This is a part of land reserved by KMC for Civic amenities in Municipal Solid Waste handling reserve area.
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 4000
13.Note on the initiated work (If applicable)	No any work is initiated. Existing facility will be removed by existing operator. New facility will be developed after securing Environmental Clearance as per EIA Notification 2006 and amendment dated 17th April,
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	1 acre
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 4000
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 01-12-2018
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	31000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable as this is CBWTF
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)	Adequate width of internal road with turning radius provided.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	As above
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	Not applicable as this is CBWTF	Not applicable as this is CBWTF	Not applicable as this is CBWTF	Not applicable as this is CBWTF

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	13
	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):	13
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	NA	1.5	1.5	NA	0.5	0.5	NA	1.0	1.0
Industrial Process	NA	8.0	8.0	NA	4.0	4.0	NA	4.0	4.0
Gardening	NA	2.0	2.0	NA	0.0	0.0	NA	0.0	0.0
Fresh water requirement	NA	1.5	1.5	NA	0.5	0.5	NA	1.0	1.0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage if from South direction to North direction towards Panchganga River
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	6.0
	STP technology:	Total water requirement of the proposed project is 13 KLD which is supplied from Kolhapur Municipal Corporation. Total 6 KLD of Effluent shall be generated from the proposed project. Looking to the quantity of effluent, an Effluent Treatment Plant of 6 KLD capacity has been proposed to treat the effluent. Treated effluent shall be used back to the treatment process of unit and excess water shall be used for plantation, water sprinkling and other non-portable domestic uses.
	Capacity of STP (CMD):	1 ETP of 6 KLD Capacity
	Location & area of the STP:	Within the Plant area
	Budgetary allocation (Capital cost):	Included in the Capital cost of project as ETP/STP are integral part of Plant
	Budgetary allocation (O & M cost):	As above

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Waste, debris and domestic waste as during construction phase.
	Disposal of the construction waste debris:	Construction waste shall be managed as per Construction & Demolition Waste Management Rule, 2016. Domestic solid waste shall be segregated into organic and inorganic waste. Organic waste shall be managed by composting. Inorganic waste shall be given to Authorized management Agency of KMC
Waste generation in the operation Phase:	**Dry waste:**	During operation phase 30 persons are engaged in operation phase and approx. 35 kg/day municipal solid waste is generated.
	Wet waste:	Small quantity of wet waste shall be generated.
	Hazardous waste:	Incineration ash- 100-200 kg/day, Residue Waste- 20-30 kg/day, ETP Sludge-100-125 Kg/month shall be generated.
	Biomedical waste (If applicable):	Biomedical waste may be generated in case of causality.
	STP Sludge (Dry sludge):	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Domestic solid waste shall be segregated into organic and inorganic waste. Organic waste shall be managed by composting. Inorganic waste shall be given to Authorized management Agency of KMC
	Wet waste:	Small quantity of wet waste shall be generated which will be mostly organic so will be manage by composting
	Hazardous waste:	All generated hazardous waste shall be disposed as per Hazardous and Other Waste (Management and Trans boundary movement) Rule 2016, Biomedical Waste Management Rule, 2016 or as per direction of MPCB
	Biomedical waste (If applicable):	Biomedical waste Shall be managed as per Biomedical Waste Management Rule, 2016. As this is a CBWTF so in house Biomedical waste can be managed within the unit.
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Total 4000 m2 of land has been identified for the facility. Approx. 1 Acer land is already acquired. This is a part of land reserved by KMC for Civic amenities in Municipal Solid Waste handling reserve area.
	Area for the storage of waste & other material:	Separate space has been provided in the layout for storage of Waste, Ash and other material.
	Area for machinery:	Area for machinery has been demarcated as per Revised Guidelines of CPCB for Establishment of Common Biomedical Waste Management Facility
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in total cost of the project
	O & M cost:	As above

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	-	6.5-9.0	6.5-9.0
2	Oil & Grease	mg/l	-	10	10
3	BOD (3 days 27 oC)	mg/l	-	30	30
4	COD	mg/l	-	250	250
5	TSS	mg/l	-	100	100
6	TDS	mg/l	-	2100	2100

Amount of effluent generation (CMD):	6.0 KLD
Capacity of the ETP:	6.0 KLD
Amount of treated effluent recycled :	3-4 KLD
Amount of water send to the CETP:	Not applicable as treated effluent shall be mnaged within the unit and no waste water will be discharge out side from the plant premises.
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Total 6 KLD of Effluent shall be generated from the proposed project. Looking to the quantity of effluent, an Effluent Treatment Plant of 6 KLD capacity has been proposed to treat the effluent. Treated effluent shall be used back to the treatment process of unit and excess water shall be used for plantation, water sprinkling and other non-portable domestic uses. The ETP will involved Physico-chemical followed by biological treatment.
Disposal of the ETP sludge	100-125 kg/ day of ETP sludge shall be generated. The same shall be managed as per direction from MPCB>

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	HW CAT No. 34.2	MT/year	NA	As per actual	As per actual	Sent to CHWTSDF
2	Incineration Ash	BMW Cat. No.9	MT/year	NA	As per actual	AS per actial	Sent to CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Incinerator	HSD	1	30	0.40	85.0
2	DG Sets	HSD	1	7.9	0.076	163.0

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	AS per requirement	As per Requirement
41.Source of Fuel		Local market		
42.Mode of Transportation of fuel to site		By local road		

43.Green Belt Development	**Total RG area :**	Total 33% of total area shall be secured for Green Belt Development.
	No of trees to be cut :	No any tree will be removed
	Number of trees to be planted :	Total 350 plant (Tree-250 & Shrubs-100) will be planted including ground flora.
	List of proposed native trees :	Terminalia arjuna, Terminalia elliptica, Millingtonia hortensis, Tamarindus indica, Azadirachta indica, Bauhinia purpurea, Erythrina indica, Ficus glomerata, Michelia champaca, Polyalthia longifolia, Butea monosperma, Dalbergia sissoo, Cassia fistula, Alstonia scholaris, Holoptelea integrifolia, Allamanda cathartica etc. shall be planted.
	Timeline for completion of plantation :	Total 350 Plant species (Tree-250 & Shrubs-100) will be planted in entire 4 year plantation programs. Required nutrients/water/manure and protection mess shall be provided. Ground flora will also be developed in open area

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	Terminalia arjuna	Arjuna	30	Reduce Noise Pollution
2	Albizia lebbeck	Fry wood	20	Sulphur Dioxide Absorbing species
3	Azadira chtaindica	Neem	20	Sulphur Dioxide Absorbing species
4	Polyalthia longifolia	Ashoka	30	Sulphur Dioxide Absorbing species
5	Grevillea ptehdifolia	Silky grevillea	20	Reduce Noise Pollution
6	Lagerstroemia flosreginae	Pride of India	30	Suspended Pollutant controlling Plant/Other Ornamental plant
7	Anthocephalus cadamba	Kadam	30	Suspended Pollutant controlling Plant/Other Ornamental plant
8	Bauhinia purpurea	Orchid Tree	30	Suspended Pollutant controlling Plant/Other Ornamental plant
9	Cassia fistula	Golden Shower tree	20	Suspended Pollutant controlling Plant/Other Ornamental plant

10	Michelia champaca	Orange champak	20	Suspended Pollutant controlling Plant/Other Ornamental 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	Shrubs species shall be planted as per availability of area	Shrubs species shall be planted as per availability of area	Shrubs species shall be planted as per availability of area

47.Energy

Power requirement:	**Source of power supply :**	DG Sets
	During Construction Phase: (Demand Load)	As per requirement
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	Total electricity requirement of the project is about 79.39 KVA. Required power will be sourced from Maharashtra State Electricity Distribution Corporation Limited (MSEDCL).
	During Operation phase (Demand load):	as above
	Transformer:	Required facility shall be provided
	DG set as Power back-up during operation phase:	100 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Solar panels shall be installed in the gate and boundary of the facility which will reduce to consumption of electricity.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	As above	As above

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

Emission from Construction. Construction waste, dust emission during transportation of construction material, Noise pollution etc.. Incineration ash, emission from stack, Effluent generation and residue from the treatment and few quantity of Domestic waste shall be generated.	NA	Construction waste shall be managed as per C & D Management rule, 2016. All hazardous waste shall be managed as per Hazardous and Other waste (Management and Trans boundary) Rule, 2016. Solid Waste Shall be managed as per Solid Waste Management Rule, 2016. Incineration ash shall be stored and sent to CHWTSDF. Effluent Treatment Plant has been proposed for Effluent. The gases after being burnt at 1050°C shall be run into multi cyclone and a venturi scrubber followed by a flooded scrubber wit

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in Project cost
	O & M cost:	As above

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 management	Regular water sprinkling and closed transportation of construction material etc	1.50
2	Water Pollution management	Supply of drinking water & arrangement of modular toilets	1.0
3	Solid & Haz. Waste Management	Storage and proper disposal of Solid waste, Haz. Waste, construction waste and other waste	2.0
4	Occupational health & Safety	Providing of PPEs, fire safety arrangements, first-aid facility	2.0
5	Others	Other as per requirement	1.0

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 Management including instrumentation	Air Pollution Management including instrumentation. Water sprinkling etc.	5.0	3.0

2	Water and Waste water management	Effluent Treatment Plant, Arrangement for drinking water	5.0	4.0
3	Solid and hazardous waste management	Disposal of Hazardous waste management. Separate storage arrangement etc.	30.0	5.0
4	Greenbelt Development	Two tier plantations shall be developed including planting of Big, Medium Trees and shrubs and maintenance	15.0	5.0
5	Environmental Monitoring & Analysis	Arrangement for monitoring, Portable instruments purchases, regular monitoring etc.	5.0	8.0
6	Miscellaneous	Miscellaneous	0.0	2.0

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
Necessary arrangement has been provided to store the Incineration ash, ETP Sludge and Waste collected from Medical units.	Included in the design of unit	Included in the design of unit	As per Guidelines	As per Guidelines	As per Guidelines	As per Guidelines	As per Guidelines

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Necessary arrangement for Internal road has been provided with required width of road and turning radius and arrangement of parking.

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Provided as per Revised Guideline of CPCB for establishment of CBWTF project
	Area per car:	As above
	Area per car:	As above
	Number of 2-Wheelers as approved by competent authority:	As above
	Number of 4-Wheelers as approved by competent authority:	As above
	Public Transport:	Not involved
	Width of all Internal roads (m):	nternal road has been provided with required width of road and turning radius for proper movement of vehicles.
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No any National Park, Wild Life Sanctuary, Biosphere reserve present within the 10 km radius area from project site
	Category as per schedule of EIA Notification sheet	Category 7 (da) "Biomedical Waste Treatment Facilities" as per Amendment dated 17th April, 2015 of EIA Notification, 2006
	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	19-11-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP obtained ToR in 130th meeting of SEAC-1 held on 1-2nd July, 2106. The proposal was considered again in 142nd meeting held on 13th September, 2017 wherein SEAC asked to conduct Public Hearing as per EIA Notification, 2006 and submit reprot along with EIA/EMP.

Now PP submitted EIA/EMP report along with Public Consultation report for appraisal.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant SEAC decided to defer the proposal till PP submits compliance of following points,

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
2) PP to submit their alternate plan for the treatment and disposal of biomedical waste generated in their jurisdiction during the period of construction and commissioning of the proposed plant.
3) PP to submit revised water balance calculations and effleunt geenration calculations with respect to the capacity of Effluent Treatment Plant.
4) PP to collect samples from upstram and downstream of the river Panchaganga as baseline data and include the same in the EIA reprot.
5) PP to take utmost care to comply with the applicable regulations for the treatment and disposal of Municipal Solid Waste, Sewage Treatment etc. to avoid nuisence to the people residing nearby; PP to include same in the EIA reprot.
6) PP to submit detailed plan for redressal of various issues riased by the public during Public Consultation process. PP shall make necessary provision of funds required for this purpose and include cost in the EMP.
7) PP to include above points in the EIA/EMP and submit revised EIA/EMP report.

FINAL RECOMMENDATION

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

158th (B) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 158th (B) ,Day-3 **Meeting Date** January 4, 2019

Subject: Environment Clearance for Gumgaon Manganese Mine (Underground)

Is a Violation Case: No

1.Name of Project	Gumgaon Manganese Mine
2.Type of institution	Government
3.Name of Project Proponent	M/s MOIL Limited
4.Name of Consultant	Wolkem India Limited, Udaipur, Rajasthan
5.Type of project	Mining of Manganese mineral
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion project - mining of Manganese mineral with enhancement of production capacity from 90,000 MTPA to 2,03,200 MTPA.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, The Environmental Clearance was granted vide J-11015/77/2003-IA.II (M) dated 6/12/2004.
8.Location of the project	Topo sheet No 55 K/15 & 55O/3
9.Taluka	Saoner
10.Village	Gumgaon, Khapa, Tegai and Rajna
Correspondence Name:	Mr. KISHORE CHANDRAKER
Room Number:	NA
Floor:	NA
Building Name:	MOIL Bhawan
Road/Street Name:	1-A ,Katol Road,
Locality:	Katol Road
City:	Nagpur
11.Area of the project	other area
12.IOD/IOA/Concession/Plan Approval Number	Composite scheme of mining & PMCP for all the leases was approved vide letter No. NGP/MN/MPLN-258/NGP. Dated 09/07/2013.
	IOD/IOA/Concession/Plan Approval Number: Composite scheme of mining & PMCP for all the leases was approved vide letter No. NGP/MN/MPLN-258/NGP. Dated 09/07/2013.
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	It is a existing Mining project
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	The LOI for ML area of 85.896ha. has been issued on 6th April, 2016 through PL route.
15.Total Plot Area (sq. m.)	85.896 Ha
16.Deductions	NA
17.Net Plot area	85.896 Ha
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 05-11-2018
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	1000000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	It is existing project and 12.1 ha infrastructure
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese Ore	7500	9433	16933

32.Total Water Requirement

Dry season:	**Source of water**	Underground Mine and bore well
	Fresh water (CMD):	710
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	710
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA

Wet season:	**Source of water**	Underground Mine and bore well
	Fresh water (CMD):	710
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	710
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
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**
Fresh water requirement	200	510	710	20	51	71	NA	NA	NA
Industrial Process	36	50	86	3.6	5.0	8.6	NA	NA	NA
Gardening	200	224	424	20	22	42	0	0	NA
Domestic	100	100	200	10	10	20	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	In the area the groundwater level is ranging between 2 m to 6.0 m bgl in the rainy season and 8 m to 10 m in summer season.
	Size and no of RWH tank(s) and Quantity:	As per CGWA guidelines
	Location of the RWH tank(s):	M.L area
	Quantity of recharge pits:	For "C" Type Quarter - It is estimated that about 132.00 m^3/yr. of rainwater will be recharged to the groundwater through proposed recharge scheme. For "A" Type Quarters:- It is estimated that about 202.00 m^3/yr. of rainwater will be recharged to the groundwater through proposed recharge scheme.
	Size of recharge pits :	A recharge pit having the dimension of 2m x2.5m and 1.50m deep has been proposed for the "C" type quarters building. For "A" type quarters, a recharge pit of 2.0mx 2.0m and 1.50m deep has been recommended based on the rainfall data. The Parapet wall of 0.30m with one side over flow pipe above the ground level may be constructed. RCC cover should be provided on top of the recharge pit.
	Budgetary allocation (Capital cost) :	Rs 50000
	Budgetary allocation (O & M cost) :	Rs 20000
	Details of UGT tanks if any :	Not Applicable
35.Storm water drainage	**Natural water drainage pattern:**	The main water course of the area is Kanhan River which flows about 1.5 kms on the eastern side of the lease. The Korardhari nala flows through south of the lease hold area and join at 2.5 km down south-east to Kanhan River. Also there are number of non-perennial water courses and nalas originating from the above mentioned ridges from higher slopes of the hill to main drainage system of Kanhan River.
	Quantity of storm water:	As per CGWA guidelines
	Size of SWD:	As per CGWA guidelines
Sewage and Waste water	**Sewage generation in KLD:**	500 KLD
	STP technology:	Anerobic
	Capacity of STP (CMD):	No.1 and 500 KLD
	Location & area of the STP:	M.L area
	Budgetary allocation (Capital cost):	Rs 4500000/-
	Budgetary allocation (O & M cost):	Rs 20000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	It is proposed to store the quantity with single layer of 5 mts height, 100 mts length & 20mts width with 30º slope. On maturity of dump capacity, it will be stabilized by plantation. 31751 MT Mineral reject as Over burden
	Disposal of the construction waste debris:	NA

Waste generation in the operation Phase:	**Dry waste:**	Over burden waste – 31751 MT
	Wet waste:	Used Oil 1 KL/Month
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	50 Kg/Day
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Over burden will be dumped in the mining lease area
	Wet waste:	CPCB/SPCB Authorized processor and recycler
	Hazardous waste:	CPCB/SPCB Authorized processor and recycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	CHWTSDF
	Others if any:	NA
Area requirement:	**Location(s):**	M.L area
	Area for the storage of waste & other material:	M.L area
	Area for machinery:	STP plant already installed and E.T.P. will be installed as per based on requirement
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 43 Lakhs
	O & M cost:	Rs 3 Lakhs

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):		NA			
Capacity of the ETP:		NA			
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		NA			
Disposal of the ETP sludge		NA			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Spent Oil	5.1	-	1 KLD	2 KLD	3 KLD	CPCB /SPCB authorized processor and recycler
2	Chemical sludge from waste water treatment	34.3	-	50 Kg/D	50 Kg/D	100 Kg/D	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1500 KVA	HSD and as per requirement	1	30	0.398	Maintaining CPCB Norms

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	As per requirement	As per requirement	As per requirement
41.Source of Fuel		Provide by Authorized person		
42.Mode of Transportation of fuel to site		Trucks		

43.Green Belt Development	**Total RG area :**	28.24 Ha will be planted
	No of trees to be cut :	NA
	Number of trees to be planted :	42410
	List of proposed native trees :	Neem, Shisham, Amaltas Mango, Karanj,Pipal ,Sagwan ,Bel ,Siras
	Timeline for completion of plantation :	Life of the Mine

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	10410	Pollution tolerant & Medicinal
2	Dalbargia Sisso	Shisham	4000	Pollution tolerant & Medicinal
3	Cassia fistula	Amaltas	3000	Pollution tolerant & Medicinal
4	Mangifera Indica	Mango	6000	Pollution tolerant & Medicinal
5	Pongamia Pinnata	Karanj	5000	Pollution tolerant
6	Ficus religious	Pipal	4000	Pollution tolerant & Medicinal
7	Tectona grandis	Sagwan	3000	Pollution tolerant & Medicinal
8	Aegel marmelos	Bel	3000	Pollution tolerant & Medicinal
9	Albizzia Sp.	Siras	4000	Pollution tolerant
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 :**	M.S.E.B.C. 11 KV Line is provided up to village Khapa and near manganese deposit of gumgaon area.
	During Construction Phase: (Demand Load)	As per requirement
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	As per requirement
	During Operation phase (Demand load):	As per requirement
	Transformer:	As per requirement
	DG set as Power back-up during operation phase:	As per requirement
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	As per requirement

48.Energy saving by non-conventional method:

A Grid connected 5MW Solar Power Project at Munsar Mine expected to be commissioned in Nov.18. Electricity generated from this Plant will be used as captive at Gumgaon, Kandri and Chikla.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Reduction in running hours of compressor	0.74 Lakh kWh
2	Reduction in consumption by replacing C & S plant BC2 conventional light with 15 W LED	0.07 Lakh kWh
3	Reduction of consumption by introducing transparent roof sheet at substation /compressor ZZ house /generator house building	0.03 Lakh kWh
4	Saving of KWH due to introduction of natural ventilator at roof	0.16 Lakh kWh

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Mining ,Loading and unloading .transportation of Minerals	Dust suppression and Plantation	All Environmental mitigation measures will be done as per MPCB.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 50 lakhs
	O & M cost:	Rs 20 lakhs

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	Pollution Control	Garland Drain, Water sprinkler, retaining walls)	25	10
2	Pollution Monitoring	Air, soil, Water, Noise	10	5
3	Occupational Health	Medical check	10	5
4	Green Belt	Plantation	25	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
Own Magzinefor storage of Explosive	Explosive Licence No. E/HQ/MH/22/483/ (E-33527	Within Lease	4500 KG	4500 KG	3000 KG	1. SBL Energy, Nagpur 2. Premiere Exp Ltd., Nagpur	Manual transport from Magzine to mine by explosive container

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:	NA
	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):	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	Category B-1, Project activity -1(a)
	Court cases pending if any	No
	Other Relevant Informations	I. The proposal of Expansion of Gumgaon Manganese mining project belonging to the MOIL Limited is for mining of Manganese mineral with enhancement of production capacity from 90,000 MTPA to 2,03,200 MTPA in the mining lease area of 85.896 ha. II. The project was earlier presented to MoEF for grant of Environmental Clearance at project involves both expansions in ML area and production capacity of existing Gumgaon Underground Mine. The Environmental Clearance was granted vide J-11015/77/2003-IA.II (M) dated 6/12/2004. III. The Gumgaon Mine comprises of three leases- Lease I- 48.5960 Ha, Lease II- 1.33 Ha and Lease III- 35.97 Ha. in Saoner Tehsil, Nagpur District, Maharashtra. Lease was granted in favor of MOIL for 20 Year and hence expiry of lease is 30/06/2022 for Lease-I, 23/02/2014 for Lease-II and 29/06/2020 for Lease-III. IV. Composite scheme of mining & PMCP for all the leases was approved vide letter No. NGP/MN/MPLN-258/NGP. Dated 09/07/2013. V. The Consent is granted for a period upto30/06/2020 – consent order no. BO/JD(APC)EIC No.:12710/13474-15/R/CC-4324 on dated 29/03/2016. VI. The proposed Manganese mining area of 85.896 Hectare (ha) in Gumgaon, Khapa, Rajna and Tegai Village, Saoner Tehsil, Nagpur District, Maharashtra the Lease deed for Mining Lease has been issued to MOIL over an area of 85.896 ha. in village Gumgaon, khapa, Rajna and Tegai, Tah.: Saoner of Dist: Nagpur of Maharashtra State, by Government of Maharashtra vide letter number MMN-1005/C.R.777/Ind-9,dated 11.05.2007 Corrigendum dated 15/04/2008 (For Lease I – 48.596 Ha), MLV-N-984/2015/3023 dated 21/10/2015(For Lease II– 1.33 Ha),MMN 2280/127045(2785)IND.9 dated 20/06/1986 corrigendum dated 23/01/1987 & extended up to 29/06/2050 vide letter no.MLV-N/256/2017/1171 dated 15/05/2017(For Lease III: 35.97 Ha). VII. Scheme of Mining over an area of 85.896 ha of ML in favor of MOIL in Village Gumgaon, Khapa, Rajna and Tegai Tah: Saoner, Distt. Nagpur, Maharashtra State. Approved of Scheme in respect of Manganese ore deposit of Moil Ltd. is vide letter no. NGP/MN/MPLN-258/NGP-2017 on dated 20.06.2017 Lease-I, NGP/MN/MPLN-361/NGP-2017 on dated 07.06.2017 Lease-II & NGP/MN6/MPLN-4013/NGP-2017 on dated 12.07.2017 Lease-III, over an area of 85.896 ha. situated in village- Gumgaon, Khapa, Rajna & Tegai, Tehsil Saoner, District Nagpur of Maharashtra State.
	Have you previously submitted Application online on MOEF Website.	Yes

	Date of online submission	16-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

PP to carry out Public Consultation as per procedure stipulated in the EIA Notification, 2006 and submit point wise compliance of the issues raised during Public Consultation.

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

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

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

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

DECISION OF SEAC

PP to submit certified copy of compliance of earlier No. J-11015/77/2003-IA.II (M) dated 06.12.2104 from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017.

During deliberations it was observed that, PP planned benificiation of the minerals on site which fall under the category 2(b) which is not mentioned by PP in their application. PP to make necessary changes in the Consolidated Statement.

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

Specific Conditions by SEAC:

1) PP to calculate ecological foot print of propsoed mining activity along with mitigation measures; PP to inlcude same in the EIA report.
2) PP to submit details about total beneficiation involved in the proposed activity.
3) PP to submit approved mining plan incorporating survey numebrs, gat Nos etc. in the mining plan.
4) PP to attach all lease agreements to the EIA reprot.
5) PP to conduct study on the impact of drilling/ blasting on the surrounding environment including biodoversity and include the same in EIA report.
6) PP to include impact of blasting on the hydrology of the area along with mitigation measures and include the same in EIA report.
7) PP shall not take effective steps on site after expiry of exisitng lease period till PP obtain extension of lease from the competent Authority.
8) PP to include details of legal requirements under various Acts and Ruels apploicable to the proposed project, current staus of complaince and proposed plan of activities along with time schedule to fulfil all legal requirements.
9) PP to submit details of waste management plan in the EIA reprot including handling, storage and dispsoal of over burdon.

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.