

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Application for obtaining Environmental Clearance of Kachurwahi-Wadegaon Manganese Mine, Production Capacity 50000 TPA by combination of O/C, U/G Method & Dump Recovery, area 78.5 Ha, villages Kachurwahi & Wadegaon, Tahsil Ramtek, District Nagpur.

Is a Violation Case: No


1.Name of Project	Kachurwahi-Wadegaon Manganese Mine
2.Type of institution	Private
3.Name of Project Proponent	Veet Rag Exploration & Minerals Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services, Nagpur
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	List of survey nos. attached
9.Taluka	Ramtek
10.Village	Kachurwahi, Wadegaon
Correspondence Name:	Veet Rag Exploration & Minerals Pvt. Ltd.
Room Number:	Plot No . 267, Ganesh Phadnavis Bhavan,
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Near Triangular Park, Dharampath,
City:	Nagpur
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Mining Plan approved by IBM
15.Total Plot Area (sq. m.)	78.5 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 30-06-2003
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	50000000

22.Number of buildings & its configuration


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 1 of
109**

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)


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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese	Nil	4166.67	4166.67


32.Total Water Requirement

Dry season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	15
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	15
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 2 of
109

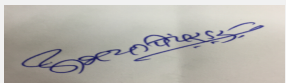
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Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Wet season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	15
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	15
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Nil	5	5	Nil	4	4	Nil	1	1
Gardening	Nil	2	2	Nil	2	2	Nil	Nil	Nil
Industrial Process	Nil	8	8	Nil	8	8	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	8 -- 10 m during pre-monsoon season
	Size and no of RWH tank(s) and Quantity:	1 recharge pit and 1 recharge pit with shaft
	Location of the RWH tank(s):	Recharge pit near mine office building, recharge pit with shaft in the mine pit void at the end of mining
	Quantity of recharge pits:	172 m ³ /anum by recharge pit and 237813 recharge pit with shaft after end of mining
	Size of recharge pits :	3m x 3m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 500000/-
	Budgetary allocation (O & M cost) :	30000/-
	Details of UGT tanks if any :	None


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 3 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	Not Applicable. However, the rain water will be channelized to the natural water courses like gullies and depression through appropriate drainage system with
	Quantity of storm water:	-
	Size of SWD:	Not Applicable

Sewage and Waste water	Sewage generation in KLD:	Nil
	STP technology:	Not Applicable
	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:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable

Waste generation in the operation Phase:	Dry waste:	205877.85 m3
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	Dry waste:	Waste rock generated will be used for backfilling of mined out area and material for maintenance of roads within the mining lease, balance will be stonred in n
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Area requirement:	Location(s):	Mined out area and non-mineralisd part of the mining lease
	Area for the storage of waste & other material:	0.02 Ha
	Area for machinery:	-

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

37.Effluent Charecterestics



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 4 of 109



Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Nil	120 KL/year	120 KL/year

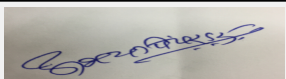
41.Source of Fuel HP petrol pump near Village Airoli, Dist Nagpur (apprx. 5 km from mine)

42.Mode of Transportation of fuel to site By road

43.Green Belt Development	Total RG area :	26 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	52000
	List of proposed native trees :	Neem, Babool, Arjuna, Mango, Shesham, Peepal, Jamun, Imli.
	Timeline for completion of plantation :	34000 trees will be planted in first 5 years and about 18000 trees will be planted after 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	6000	Created to intercept dust, gaseous pollutants and noise
2	Terminalia arjuna	Arjuna	6000	Created to intercept dust, gaseous pollutants and noise


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 5 of
109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

3	Mangifera indica	Mango	6000	Created to intercept dust, gaseous pollutants, noise and fruits
4	Dalbergia sissoo	Shesham	5000	Created to intercept dust, gaseous pollutants and noise
5	Acacia nilotica	Babool	5000	Created to intercept dust, gaseous pollutants and noise
6	Punica granatum	Anar	5000	Created to intercept dust, gaseous pollutants, noise and fruits
7	Ziziphus mauritiana	Ber	5000	Created to intercept dust, gaseous pollutants, noise and fruits
8	Ficus religiosa	Peepal	4000	Created to intercept dust, gaseous pollutants and noise
9	Syzygium cumini	Jamun	5000	Created to intercept dust, gaseous pollutants, noise and fruits
10	Tamarindus indica	Imly	5000	Created to intercept dust, gaseous pollutants, noise and fruits

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 Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	2 x 500 KVA
	During Operation phase (Demand load):	2 x 500 KVA
	Transformer:	2 x 500 KVA
	DG set as Power back-up during operation phase:	1 x 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

It is proposed to install 10 Solar Light poles within mining lease area to saving energy by non-conventional method

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 6 of 109


Dr. Umakant Dangat (Chairman SEAC-I)

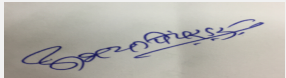
1	Solar light	10 lamps					
50.Details of pollution control Systems							
Source	Existing pollution control system	Proposed to be installed					
Air Pollution Control	Not Applicable	Dust Suppression by terrain					
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 100000/-					
	O & M cost:	Rs. 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 Pollution Control	Dust Suppression	-	2			
2	Water Pollution Control	Desilting Tanks, garland drain, Boul	3	-			
3	Pollution Monitoring	Hydrogeological monitoring, Air, W - 3	-	3			
4	Conservation of Natural Resources ³	Solar Lightening arrangement, Rain	2	-			
5	Plantation /Reclamation	Reclamation Biological reclamation	-	1			
6	Occupational Health	Fire Fighting Equipments (portable)	1	0.5			
51.Storage of chemicals (inflammable/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
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	Not Applicable					

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018	Page 7 of 109	Signature:  Name: Dr. Umakant Dangat (Chairman SEAC-I)
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Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	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	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	As per data submitted by PP 1.0 CMD domestic waste water will be generated from the proposed activity. PP to provide treatemnt facility for the same.
Drainage pattern of the project	PP provided drains as per contour on the plot.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 8 of
109**

Signature: 
**Name: Dr. Umakant Dangat
(Chairman SEAC-I)**

Solid Waste Management	Waste rock generated will be used for backfilling of mined out u/g area and for maintenance of roads within the mining areas. No dump or any waste shall be stored, dumped outside mine area.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. PP to use closed container/vehicles for the transportation of the mine ore.
Energy Management	PP proposes two numbers of DG sets with capacity 500 KVA and 125 KVA respectively using diesel as a fuel.
Traffic circulation system and risk assessment	PP to provide 9 meters roads for the easy movement of vehicles. PP to ensure that no parking shall be on the public roads or on any private land.
Landscape Plan	PP proposes to plant the trees on non mine land of the lease area.
Disaster management system and risk assessment	PP proposes to cordon the mine pit to avoid any accident.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP of cost of Rs. 6 Lakhs as a capital cost and Rs. 6.5 Lakhs as a recurring cost for the maintenance of environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

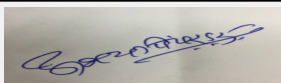
Brief information of the project by SEAC

PP obtained ToR from the EAC. MoEF&CC vide No. J-11015/97/2016-IA-II(M) dated 15th March, 2016 under category 1(a)B1 of the schedule attached to the EIA Notification, 2006

The Public Hearing was conducted on 16th September, 2017.

Now PP submitted EIA report for appraisal.

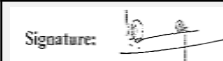
DECISION OF SEAC



Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 9 of
109**



Signature:
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

During deliberations PP informed that, the lease permission obtained till 20139 but the total lease land is not yet transferred to their name.

The proposal was appraised as per Office Memorandum issued by MoEF&CC dated 7th October, 2014 which states as below,

" It has been accordingly decided that the following docuemnts relating to the acquisition of land w.r.t the project site may be considered as adequate by EAC's/SEAC's at the time of appraisal of the case for EC:

(i).....

(ii). In case the land is being acquired through private negotiations with the land owners, credible document showing the intent of the land owners to sell the land for the proposed project."

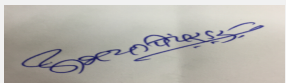
PP during deliebrations informed that, around 3 acre land has been purchased and other is in process of purchase.

However, PP to note that, the EC granted for a project on the basis of aforesaid documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project and mentioned in the EC.

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

Specific Conditions by SEAC:

- 1) As per Maharashtra Irrigation Act - 1967, PP to ensure to obtain permission from the duly empowered canal officer for carrying out mining, quarrying operations requiring the use of explosives within a distance of 200 meters from boundaries of the canal.
- 2) PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
- 3) PP to carry out vibration studies and implement the suggestions obtianed. PP to ensure that, no impact of vibrations shall cross the mine lease area.
- 4) PP to use enabling modern technologies for monitoring of the mine area to ensure safety of the people working in the mine.
- 5) PP to obtain permission from completent authority for drawing ground water.
- 6) PP to strictly implement the mineing closure plan approved by competent Authority.
- 7) PP to use "nonnel" detonator for balsting purpose.
- 8) PP to left 50 meters distance on each side of the high tension electricity line passing through the plot area fo rthe safety of the people on site. No movement shall be allowed under the high tension line.
- 9) PP to ensure that no dust pollution be created on site during operations or during transportation of the ore. PP to use waterspray and closed contianers for transportation.
- 10) PP to submit point wise compliance along with implementation schedule of the issues raised during the Public Hearing.
- 11) PP to provide prefabricated STP for the treatment of domestic sewage.
- 12) 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.
- 13) PP to provide new and renewable energy for the illumination of the common areas, surrounding areas, office buildings etc.
- 14) PP to use fly ash for the refilling of mine pits.


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**


**Page 10
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

FINAL RECOMMENDATION


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

SEAC-AGENDA-00000000161


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 11
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

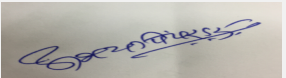
SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Application for obtaining Environmental Clearance of Kachurwahi Manganese Mine, Production Capacity 25000 TPA by U/G Method, area 6.71 Ha, village Kachurwahi, Tahsil Ramtek, District Nagpur.

Is a Violation Case: No


1.Name of Project	Kachurwahi-Wadegaon Manganese Mine
2.Type of institution	Private
3.Name of Project Proponent	Veet Rag Exploration & Minerals Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services, Nagpur
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	359, 360, 367 & 381
9.Taluka	Ramtek
10.Village	Kachurwahi
Correspondence Name:	Veet Rag Exploration & Minerals Pvt. Ltd.
Room Number:	Plot No . 267, Ganesh Phadnavis Bhavan,
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Near Triangular Park, Dharampath,
City:	Nagpur
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Mining Plan approved by IBM
15.Total Plot Area (sq. m.)	6.71 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable Approved Non FSI area (sq. m.): Not applicable Date of Approval: 11-04-2017
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	28500000

22.Number of buildings & its configuration


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 12
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**


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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese	Nil	2083.33	2083.33


32.Total Water Requirement

Dry season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 13 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Wet season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	20
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Water Requirement									
Domestic	Nil	1	1	Nil	0.8	0.8	Nil	0.2	0.2
Gardening	Nil	5	5	Nil	5	5	Nil	Nil	Nil
Industrial Process	Nil	14	14	Nil	14	14	Nil	Nil	Nil


34.Rain Water Harvesting (RWH)

Level of the Ground water table:	8 -- 10 m during pre-monsoon season
Size and no of RWH tank(s) and Quantity:	1 Rooftop Rainwater Harvesting Structure and 1 Percolation Tank
Location of the RWH tank(s):	Rooftop Rainwater Harvesting Structure (Recharge pit) near Tubewell, Percolation Tank in the mine pit void at the end of mining
Quantity of recharge pits:	378 m ³ /anum by recharge pit and 18473 m ³ /anum by Percolation Tank after end of mining
Size of recharge pits :	3m x 3m x 2 m
Budgetary allocation (Capital cost) :	Rs. 500000/-
Budgetary allocation (O & M cost) :	30000/-
Details of UGT tanks if any :	None

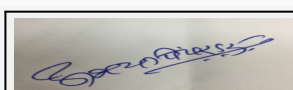

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 14 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)


35.Storm water drainage	Natural water drainage pattern:	Not Applicable. However, the rain water will be channelized to the natural water courses like gullies and depression through appropriate drainage system with
	Quantity of storm water:	-
	Size of SWD:	Not Applicable
Sewage and Waste water	Sewage generation in KLD:	Nil
	STP technology:	Not Applicable
	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:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	6600 m3
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Waste rock generated will be used for backfilling of mined out u/g area and material for maintenance of roads within the mining lease.
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	Mined out area and non-mineralised part of the mining lease
	Area for the storage of waste & other material:	1.14 Ha
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	-
	O & M cost:	-
37.Effluent Charecterestics		



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 15 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Nil	50 KL/year	50 KL/year


41.Source of Fuel HP petrol pump near Village Airoli, Dist Nagpur (apprx. 5 km from mine)

42.Mode of Transportation of fuel to site By road

43.Green Belt Development	Total RG area :	4 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	8000
	List of proposed native trees :	Neem, Mango, Shesham, Peepal, Jamun, Imli, Ber, Anar etc.
	Timeline for completion of plantation :	34000 trees will be planted in first 5 years and about 18000 trees will be planted after 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	Created to intercept dust, gaseous pollutants and noise
2	Azadirachta indica	Neem	1000	Created to intercept dust, gaseous pollutants and noise


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 16 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

3	Ficus religiosa	Peepal	1000	Created to intercept dust, gaseous pollutants and noise
4	Dalbergia sissoo	Shesham	1000	Created to intercept dust, gaseous pollutants and noise
5	Dalbergia sissoo	Shesham	1000	Created to intercept dust, gaseous pollutants and noise
6	Mangifera indica	Mango	1000	Created to intercept dust, gaseous pollutants, noise and fruits
7	Tamarindus indica	Imly	1000	Created to intercept dust, gaseous pollutants, noise and fruits
8	Ziziphus mauritiana	Ber	1000	Created to intercept dust, gaseous pollutants, noise and fruits

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 Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1 x 500 KVA
	During Operation phase (Demand load):	1 x 500 KVA
	Transformer:	1 x 500 KVA
	DG set as Power back-up during operation phase:	1 x 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:


It is proposed to install 10 Solar Light poles within mining lease area to saving energy by non-conventional method

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar light	5 lamps


50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 17 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Air Pollution Control	Not Applicable	Dust Suppression by terrain
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Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 50000/-
	O & M cost:	Rs. 5000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Dust Suppression	-	1.5
2	Water Pollution Control	Desilting Tanks, garland drain, Boul	2	-
3	Pollution Monitoring	Hydrogeological monitoring, Air, W - 3	-	1
4	Conservation of Natural Resources ³	Solar Lightening arrangement, Rain	1.5	-
5	Plantation /Reclamation	Reclamation Biological reclamation	-	0.5
6	Occupational Health	Fire Fighting Equipments (portable)	0.5	0.5

51.Storage of chemicals (inflammable/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
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Not Applicable
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018


Page 18 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	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	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	As per data submitted by PP 0.2 CMD domestic waste water will be generated from the proposed activity. PP to provide treatemnt facility for the same.
Drainage pattern of the project	PP provided drains as per contour on the plot.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 19
of 109**

Signature: 
**Name: Dr. Umakant Dangat
(Chairman SEAC-I)**

Solid Waste Management	Waste rock generated will be used for backfilling of mined out u/g area and for maintenance of roads within the mining areas. No dump or any waste shall be stored, dumped outside mine area.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. PP to use closed container/vehicles for the transportation of the mine ore.
Energy Management	PP proposes two numbers of DG sets with capacity 500 KVA and 125 KVA respectively using diesel as a fuel.
Traffic circulation system and risk assessment	PP to provide 9 meters roads for the easy movement of vehicles. PP to ensure that no parking shall be on the public roads or on any private land.
Landscape Plan	PP proposes to plant the trees on non mine land of the lease area.
Disaster management system and risk assessment	PP proposes to cordon the mine pit to avoid any accident.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP of cost of Rs. 4 Lakhs as a capital cost and Rs. 3.5 Lakhs as a recurring cost for the maintenance of environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

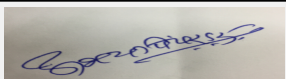
PP obtained ToR from SEAC-1 in 134th meeting of held on 7th to 9th September, 2016 under category 1(a)B1 with following additional ToR points,

1. The EIA Report shall be in accordance with the Model ToR prescribed by MoEF published in Notification dated April, 2015.
2. The EIA report should contain details of management of natural drainage, management of mine pit water and management of solid waste.
3. Detailed diagram showing lease boundary, garland canal, settling tank, stock and dump sites shall be submitted.

The Public Hearing was conducted on 16th September, 2017.


Now PP submitted EIA report for appraisal.

DECISION OF SEAC


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 20
of 109**


 Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

During deliberations PP informed that, the lease permission obtained till 20139 but the total lease land is not yet transferred to their name.

The proposal was appraised as per Office Memorandum issued by MoEF&CC dated 7th October, 2014 which states as below,

" It has been accordingly decided that the following docuemnts relating to the acquisition of land w.r.t the project site may be considered as adequate by EAC's/SEAC's at the time of appraisal of the case for EC:

(i).....

(ii). In case the land is being acquired through private negotiations with the land owners, credible document showing the intent of the land owners to sell the land for the proposed project."

PP during deliebrations informed that, around 3 acre land has been purchased and other is in process of purchase.

However, PP to note that, the EC granted for a project on the basis of aforesaid documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project and mentioned in the EC.

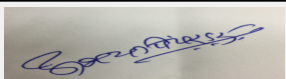
After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the following conditions.

Specific Conditions by SEAC:

- 1) PP shall obtain permission from the Competent Authority as per provisions of the Maharashtra Irrigation Act - 1967 for carrying out mining, quarrying operations requiring the use of explosives within a distance of 200 meters from boundaries of the canal.
- 2) PP shall comply with all the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
- 3) PP to carry out vibration studies and implement recommendations to ensure that, the impact of vibrations are contained within the battery limit of mining lease area.
- 4) PP to use enabling modern technologies for monitoring of the mine area to ensure safety of the workers.
- 5) PP to obtain permission from competent authority for drawing ground water.
- 6) PP to strictly implement approved mining plan and also mining closure plan as approved by the Competent Authority.
- 7) PP to use "nonnel" detonator for balsting purpose.
- 8) PP to maintain buffer area of 50 meters distance on both sides of the high tension electricity line passing through the plot area for the safety of the people on site. No movement shall be allowed under the high tension line.
- 9) PP to ensure that no dust pollution be created on site during operations or during transportation of the mine ore. PP to use water spray and closed containers for transportation.
- 10) PP to submit point wise compliance along with implementation schedule of the issues raised during the Public Hearing.
- 11) PP to provide prefabricated STP for the treatment of domestic sewage.
- 12) PP to prepare and implement CER (Corporate Environment Responsibility) plan in consultation with the District Authorities as per OM issued by MoEF&CC dated 01.05.2018.
- 13) PP to provide new and renewable energy for the illumination of the common areas, surrounding areas, office buildings etc.
- 14) PP to explore possibility to use fly ash for the refilling of mine pits.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 21
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Application for obtaining Environmental Clearance of Kachurwahi Manganese Mine, Production Capacity 25000 TPA by U/G Method, area 6.71 Ha, village Kachurwahi, Tahsil Ramtek, District Nagpur.

Is a Violation Case: No

1.Name of Project	Kachurwahi-Wadegaon Manganese Mine
2.Type of institution	Private
3.Name of Project Proponent	Veet Rag Exploration & Minerals Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services, Nagpur
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	359, 360, 367 & 381
9.Taluka	Ramtek
10.Village	Kachurwahi
Correspondence Name:	Veet Rag Exploration & Minerals Pvt. Ltd.
Room Number:	Plot No . 267, Ganesh Phadnavis Bhavan,
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Near Triangular Park, Dharampath,
City:	Nagpur
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Mining Plan approved by IBM
15.Total Plot Area (sq. m.)	6.71 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 11-04-2017
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	28500000

22.Number of buildings & its configuration



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 22 of 109



Dr. Umakant Dangat (Chairman SEAC-I)


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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese	Nil	2083.33	2083.33

32.Total Water Requirement

Dry season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 23
of 109


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Wet season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	20
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Nil	1	1	Nil	0.8	0.8	Nil	0.2	0.2
Gardening	Nil	5	5	Nil	5	5	Nil	Nil	Nil
Industrial Process	Nil	14	14	Nil	14	14	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	8 -- 10 m during pre-monsoon season
	Size and no of RWH tank(s) and Quantity:	1 Rooftop Rainwater Harvesting Structure and 1 Percolation Tank
	Location of the RWH tank(s):	Rooftop Rainwater Harvesting Structure (Recharge pit) near Tubewell, Percolation Tank in the mine pit void at the end of mining
	Quantity of recharge pits:	378 m ³ /anum by recharge pit and 18473 m ³ /anum by Percolation Tank after end of mining
	Size of recharge pits :	3m x 3m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 500000/-
	Budgetary allocation (O & M cost) :	30000/-
	Details of UGT tanks if any :	None

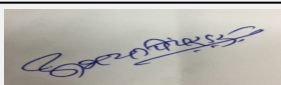

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 24 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	Not Applicable. However, the rain water will be channelized to the natural water courses like gullies and depression through appropriate drainage system with
	Quantity of storm water:	-
	Size of SWD:	Not Applicable
Sewage and Waste water	Sewage generation in KLD:	Nil
	STP technology:	Not Applicable
	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:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	6600 m3
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Waste rock generated will be used for backfilling of mined out u/g area and material for maintenance of roads within the mining lease.
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	Mined out area and non-mineralised part of the mining lease
	Area for the storage of waste & other material:	1.14 Ha
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	-
	O & M cost:	-
37.Effluent Charecterestics		


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 25 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Nil	50 KL/year	50 KL/year

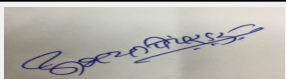
41.Source of Fuel HP petrol pump near Village Airoli, Dist Nagpur (apprx. 5 km from mine)

42.Mode of Transportation of fuel to site By road

43.Green Belt Development	Total RG area :	4 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	8000
	List of proposed native trees :	Neem, Mango, Shesham, Peepal, Jamun, Imli, Ber, Anar etc.
	Timeline for completion of plantation :	34000 trees will be planted in first 5 years and about 18000 trees will be planted after 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	Created to intercept dust, gaseous pollutants and noise
2	Azadirachta indica	Neem	1000	Created to intercept dust, gaseous pollutants and noise


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 26 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

3	Ficus religiosa	Peepal	1000	Created to intercept dust, gaseous pollutants and noise
4	Dalbergia sissoo	Shesham	1000	Created to intercept dust, gaseous pollutants and noise
5	Dalbergia sissoo	Shesham	1000	Created to intercept dust, gaseous pollutants and noise
6	Mangifera indica	Mango	1000	Created to intercept dust, gaseous pollutants, noise and fruits
7	Tamarindus indica	Imly	1000	Created to intercept dust, gaseous pollutants, noise and fruits
8	Ziziphus mauritiana	Ber	1000	Created to intercept dust, gaseous pollutants, noise and fruits

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 Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1 x 500 KVA
	During Operation phase (Demand load):	1 x 500 KVA
	Transformer:	1 x 500 KVA
	DG set as Power back-up during operation phase:	1 x 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:


It is proposed to install 10 Solar Light poles within mining lease area to saving energy by non-conventional method

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar light	5 lamps

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 27 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Air Pollution Control	Not Applicable	Dust Suppression by terrain
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Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 50000/-
	O & M cost:	Rs. 5000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Dust Suppression	-	1.5
2	Water Pollution Control	Desilting Tanks, garland drain, Boul	2	-
3	Pollution Monitoring	Hydrogeological monitoring, Air, W - 3	-	1
4	Conservation of Natural Resources ³	Solar Lightening arrangement, Rain	1.5	-
5	Plantation /Reclamation	Reclamation Biological reclamation	-	0.5
6	Occupational Health	Fire Fighting Equipments (portable)	0.5	0.5

51.Storage of chemicals (inflammable/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
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Not Applicable
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

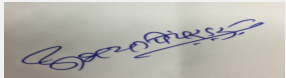
Page 28 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	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	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	As per data submitted by PP 0.2 CMD domestic waste water will be generated from the proposed activity. PP to provide treatemnt facility for the same.
Drainage pattern of the project	PP provided drains as per contour on the plot.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 29
of 109**

Signature: 
**Name: Dr. Umakant Dangat
(Chairman SEAC-I)**

Solid Waste Management	Waste rock generated will be used for backfilling of mined out u/g area and for maintenance of roads within the mining areas. No dump or any waste shall be stored, dumped outside mine area.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. PP to use closed container/vehicles for the transportation of the mine ore.
Energy Management	PP proposes two numbers of DG sets with capacity 500 KVA and 125 KVA respectively using diesel as a fuel.
Traffic circulation system and risk assessment	PP to provide 9 meters roads for the easy movement of vehicles. PP to ensure that no parking shall be on the public roads or on any private land.
Landscape Plan	PP proposes to plant the trees on non mine land of the lease area.
Disaster management system and risk assessment	PP proposes to cordon the mine pit to avoid any accident.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP of cost of Rs. 4 Lakhs as a capital cost and Rs. 3.5 Lakhs as a recurring cost for the maintenance of environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

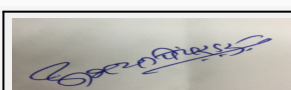
PP obtained ToR from SEAC-1 in 134th meeting of held on 7th to 9th September, 2016 under category 1(a)B1 with following additional ToR points,

1. The EIA Report shall be in accordance with the Model ToR prescribed by MoEF published in Notification dated April, 2015.
2. The EIA report should contain details of management of natural drainage, management of mine pit water and management of solid waste.
3. Detailed diagram showing lease boundary, garland canal, settling tank, stock and dump sites shall be submitted.

The Public Hearing was conducted on 16th September, 2017.

Now PP submitted EIA report for appraisal.

DECISION OF SEAC



Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 30
of 109**



**Dr. Umakant Dangat
(Chairman SEAC-I)**

During deliberations PP informed that, the lease permission obtained till 20139 but the total lease land is not yet transferred to their name.

The proposal was appraised as per Office Memorandum issued by MoEF&CC dated 7th October, 2014 which states as below,

" It has been accordingly decided that the following docuemnts relating to the acquisition of land w.r.t the project site may be considered as adequate by EAC's/SEAC's at the time of appraisal of the case for EC:

(i).....

(ii). In case the land is being acquired through private negotiations with the land owners, credible document showing the intent of the land owners to sell the land for the proposed project."

PP during deliebrations informed that, around 3 acre land has been purchased and other is in process of purchase.

However, PP to note that, the EC granted for a project on the basis of aforesaid documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project and mentioned in the EC.


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

Specific Conditions by SEAC:

- 1) PP shall obtain permission from the Competent Authority as per provisions of the Maharashtra Irrigation Act - 1967 for carrying out mining, quarrying operations requiring the use of explosives within a distance of 200 meters from boundaries of the canal.
- 2) PP shall comply with all the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
- 3) PP to carry out vibration studies and implement recommendations to ensure that, the impact of vibrations are contained within the battery limit of mining lease area.
- 4) PP to use enabling modern technologies for monitoring of the mine area to ensure safety of the workers.
- 5) PP to obtain permission from competent authority for drawing ground water.
- 6) PP to strictly implement approved mining plan and also mining closure plan as approved by the Competent Authority.
- 7) PP to use "nonnel" detonator for balsting purpose.
- 8) PP to maintain buffer area of 50 meters distance on both sides of the high tension electricity line passing through the plot area for the safety of the people on site. No movement shall be allowed under the high tension line.
- 9) PP to ensure that no dust pollution be created on site during operations or during transportation of the mine ore. PP to use water spray and closed containers for transportation.
- 10) PP to submit point wise compliance along with implementation schedule of the issues raised during the Public Hearing.
- 11) PP to provide prefabricated STP for the treatment of domestic sewage.
- 12) PP to prepare and implement CER (Corporate Environment Responsibility) plan in consultation with the District Authorities as per OM issued by MoEF&CC dated 01.05.2018.
- 13) PP to provide new and renewable energy for the illumination of the common areas, surrounding areas, office buildings etc.
- 14) PP to explore possibility to use fly ash for the refilling of mine pits.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 31
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

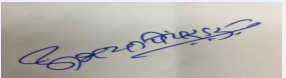
SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Application for obtaining Environmental Clearance of Kachurwahi-Wadegaon Manganese Mine, Production Capacity 50000 TPA by combination of O/C, U/G Method & Dump Recovery, area 78.5 Ha, villages Kachurwahi & Wadegaon, Tahsil Ramtek, District Nagpur.

Is a Violation Case: No


1.Name of Project	Kachurwahi-Wadegaon Manganese Mine
2.Type of institution	Private
3.Name of Project Proponent	Veet Rag Exploration & Minerals Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services, Nagpur
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	List of survey nos. attached
9.Taluka	Ramtek
10.Village	Kachurwahi, Wadegaon
Correspondence Name:	Veet Rag Exploration & Minerals Pvt. Ltd.
Room Number:	Plot No . 267, Ganesh Phadnavis Bhavan,
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Near Triangular Park, Dharampath,
City:	Nagpur
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Mining Plan approved by IBM
15.Total Plot Area (sq. m.)	78.5 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 30-06-2003
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	50000000

22.Number of buildings & its configuration


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

Page 32
of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)


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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese	Nil	4166.67	4166.67

32.Total Water Requirement

Dry season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	15
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	15
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 33
of 109


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Wet season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	15
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	15
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Nil	5	5	Nil	4	4	Nil	1	1
Gardening	Nil	2	2	Nil	2	2	Nil	Nil	Nil
Industrial Process	Nil	8	8	Nil	8	8	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	8 -- 10 m during pre-monsoon season
	Size and no of RWH tank(s) and Quantity:	1 recharge pit and 1 recharge pit with shaft
	Location of the RWH tank(s):	Recharge pit near mine office building, recharge pit with shaft in the mine pit void at the end of mining
	Quantity of recharge pits:	172 m ³ /anum by recharge pit and 237813 recharge pit with shaft after end of mining
	Size of recharge pits :	3m x 3m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 500000/-
	Budgetary allocation (O & M cost) :	30000/-
	Details of UGT tanks if any :	None


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 34 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	Not Applicable. However, the rain water will be channelized to the natural water courses like gullies and depression through appropriate drainage system with
	Quantity of storm water:	-
	Size of SWD:	Not Applicable

Sewage and Waste water	Sewage generation in KLD:	Nil
	STP technology:	Not Applicable
	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:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable

Waste generation in the operation Phase:	Dry waste:	205877.85 m3
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	Dry waste:	Waste rock generated will be used for backfilling of mined out area and material for maintenance of roads within the mining lease, balance will be stonred in n
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Area requirement:	Location(s):	Mined out area and non-mineralisd part of the mining lease
	Area for the storage of waste & other material:	0.02 Ha
	Area for machinery:	-

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


37.Effluent Charecterestics



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 35 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Nil	120 KL/year	120 KL/year

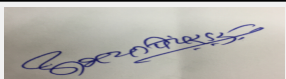
41.Source of Fuel HP petrol pump near Village Airoli, Dist Nagpur (apprx. 5 km from mine)

42.Mode of Transportation of fuel to site By road

43.Green Belt Development	Total RG area :	26 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	52000
	List of proposed native trees :	Neem, Babool, Arjuna, Mango, Shesham, Peepal, Jamun, Imli.
	Timeline for completion of plantation :	34000 trees will be planted in first 5 years and about 18000 trees will be planted after 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	6000	Created to intercept dust, gaseous pollutants and noise
2	Terminalia arjuna	Arjuna	6000	Created to intercept dust, gaseous pollutants and noise


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 36 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

3	Mangifera indica	Mango	6000	Created to intercept dust, gaseous pollutants, noise and fruits
4	Dalbergia sissoo	Shesham	5000	Created to intercept dust, gaseous pollutants and noise
5	Acacia nilotica	Babool	5000	Created to intercept dust, gaseous pollutants and noise
6	Punica granatum	Anar	5000	Created to intercept dust, gaseous pollutants, noise and fruits
7	Ziziphus mauritiana	Ber	5000	Created to intercept dust, gaseous pollutants, noise and fruits
8	Ficus religiosa	Peepal	4000	Created to intercept dust, gaseous pollutants and noise
9	Syzygium cumini	Jamun	5000	Created to intercept dust, gaseous pollutants, noise and fruits
10	Tamarindus indica	Imly	5000	Created to intercept dust, gaseous pollutants, noise and fruits

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 Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	2 x 500 KVA
	During Operation phase (Demand load):	2 x 500 KVA
	Transformer:	2 x 500 KVA
	DG set as Power back-up during operation phase:	1 x 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

It is proposed to install 10 Solar Light poles within mining lease area to saving energy by non-conventional method

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 37 of 109


Dr. Umakant Dangat (Chairman SEAC-I)


1	Solar light	10 lamps					
50.Details of pollution control Systems							
Source	Existing pollution control system	Proposed to be installed					
Air Pollution Control	Not Applicable	Dust Suppression by terrain					
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 100000/-					
	O & M cost:	Rs. 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 Pollution Control	Dust Suppression	-	2			
2	Water Pollution Control	Desilting Tanks, garland drain, Boul	3	-			
3	Pollution Monitoring	Hydrogeological monitoring, Air, W - 3	-	3			
4	Conservation of Natural Resources ³	Solar Lightening arrangement, Rain	2	-			
5	Plantation /Reclamation	Reclamation Biological reclamation	-	1			
6	Occupational Health	Fire Fighting Equipments (portable)	1	0.5			
51.Storage of chemicals (inflammable/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
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	Not Applicable					

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018	Page 38 of 109	Signature:  Name: Dr. Umakant Dangat (Chairman SEAC-I)
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Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	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	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
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Drainage pattern of the project	PP provided drains as per contour on the plot.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 39
of 109**

Signature: 
**Name: Dr. Umakant Dangat
(Chairman SEAC-I)**

Solid Waste Management	Waste rock generated will be used for backfilling of mined out u/g area and for maintenance of roads within the mining areas. No dump or any waste shall be stored, dumped outside mine area.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. PP to use closed container/vehicles for the transportation of the mine ore.
Energy Management	PP proposes two numbers of DG sets with capacity 500 KVA and 125 KVA respectively using diesel as a fuel.
Traffic circulation system and risk assessment	PP to provide 9 meters roads for the easy movement of vehicles. PP to ensure that no parking shall be on the public roads or on any private land.
Landscape Plan	PP proposes to plant the trees on non mine land of the lease area.
Disaster management system and risk assessment	PP proposes to cordon the mine pit to avoid any accident.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP of cost of Rs. 6 Lakhs as a capital cost and Rs. 6.5 Lakhs as a recurring cost for the maintenance of environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

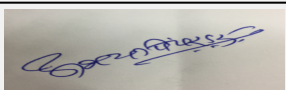
Brief information of the project by SEAC

PP obtained ToR from the EAC. MoEF&CC vide No. J-11015/97/2016-IA-II(M) dated 15th March, 2016 under category 1(a)B1 of the schedule attached to the EIA Notification, 2006

The Public Hearing was conducted on 16th September, 2017.

Now PP submitted EIA report for appraisal.

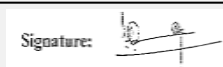
DECISION OF SEAC

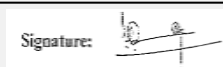


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 40
of 109**



Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

During deliberations PP informed that, the lease permission obtained till 20139 but the total lease land is not yet transferred to their name.

The proposal was appraised as per Office Memorandum issued by MoEF&CC dated 7th October, 2014 which states as below,

" It has been accordingly decided that the following docuemnts relating to the acquisition of land w.r.t the project site may be considered as adequate by EAC's/SEAC's at the time of appraisal of the case for EC:

(i).....

(ii). In case the land is being acquired through private negotiations with the land owners, credible document showing the intent of the land owners to sell the land for the proposed project."

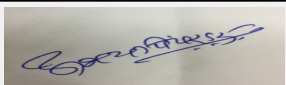
However, PP to note that, the EC granted for a project on the basis of aforesaid documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project and mentioned in the EC.

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

Specific Conditions by SEAC:


- 1) As per Maharashtra Irrigation Act - 1967, PP to ensure to obtain permission from the duly empowered canal officer for carrying out mining, quarrying operations requiring the use of explosives within a distance of 200 meters from boundaries of the canal.
- 2) PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
- 3) PP to carry out vibration studies and implement the suggestions obtained. PP to ensure that, no impact of vibrations shall cross the mine lease area.
- 4) PP to use enabling modern technologies for monitoring of the mine area to ensure safety of the people working in the mine.
- 5) PP to obtain permission from competent authority for drawing ground water.
- 6) PP to strictly implement the mining closure plan approved by competent Authority.
- 7) PP to use "nonnel" detonator for blasting purpose.
- 8) PP to left 50 meters distance on each side of the high tension electricity line passing through the plot area for the safety of the people on site. No movement shall be allowed under the high tension line.
- 9) PP to ensure that no dust pollution be created on site during operations or during transportation of the ore. PP to use waterspray and closed containers for transportation.
- 10) PP to submit point wise compliance along with implementation schedule of the issues raised during the Public Hearing.
- 11) PP to provide prefabricated STP for the treatment of domestic sewage.
- 12) 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.
- 13) PP to provide new and renewable energy for the illumination of the common areas, surrounding areas, office buildings etc.
- 14) PP to use fly ash for the refilling of mine pits.

FINAL RECOMMENDATION


**Abhay Pimparkar (Secretary
SEAC-I)**


**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 41
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**


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

SEAC-AGENDA-00000000161


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 42
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

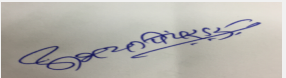
SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Application for obtaining Environmental Clearance of Kachurwahi Manganese Mine, Production Capacity 25000 TPA by U/G Method, area 6.71 Ha, village Kachurwahi, Tahsil Ramtek, District Nagpur.

Is a Violation Case: No


1.Name of Project	Kachurwahi-Wadegaon Manganese Mine
2.Type of institution	Private
3.Name of Project Proponent	Veet Rag Exploration & Minerals Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services, Nagpur
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	359, 360, 367 & 381
9.Taluka	Ramtek
10.Village	Kachurwahi
Correspondence Name:	Veet Rag Exploration & Minerals Pvt. Ltd.
Room Number:	Plot No . 267, Ganesh Phadnavis Bhavan,
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Near Triangular Park, Dharampath,
City:	Nagpur
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Mining Plan approved by IBM
15.Total Plot Area (sq. m.)	6.71 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable b) Non FSI area (sq. m.): Not applicable c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable Approved Non FSI area (sq. m.): Not applicable Date of Approval: 11-04-2017
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	28500000

22.Number of buildings & its configuration


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 43
of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

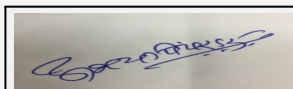
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		
26.Height of the building(s)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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Manganese	Nil	2083.33	2083.33

32.Total Water Requirement

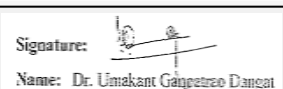
Dry season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 44 of 109




Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Wet season:	Source of water	Tubewell and Mine pit water
	Fresh water (CMD):	20
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	20
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Water Requirement									
Domestic	Nil	1	1	Nil	0.8	0.8	Nil	0.2	0.2
Gardening	Nil	5	5	Nil	5	5	Nil	Nil	Nil
Industrial Process	Nil	14	14	Nil	14	14	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	8 -- 10 m during pre-monsoon season
	Size and no of RWH tank(s) and Quantity:	1 Rooftop Rainwater Harvesting Structure and 1 Percolation Tank
	Location of the RWH tank(s):	Rooftop Rainwater Harvesting Structure (Recharge pit) near Tubewell, Percolation Tank in the mine pit void at the end of mining
	Quantity of recharge pits:	378 m ³ /anum by recharge pit and 18473 m ³ /anum by Percolation Tank after end of mining
	Size of recharge pits :	3m x 3m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 500000/-
	Budgetary allocation (O & M cost) :	30000/-
	Details of UGT tanks if any :	None


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 45 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)


35.Storm water drainage	Natural water drainage pattern:	Not Applicable. However, the rain water will be channelized to the natural water courses like gullies and depression through appropriate drainage system with
	Quantity of storm water:	-
	Size of SWD:	Not Applicable
Sewage and Waste water	Sewage generation in KLD:	Nil
	STP technology:	Not Applicable
	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:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	6600 m3
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Waste rock generated will be used for backfilling of mined out u/g area and material for maintenance of roads within the mining lease.
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	Mined out area and non-mineralised part of the mining lease
	Area for the storage of waste & other material:	1.14 Ha
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	-
	O & M cost:	-
37.Effluent Charecterestics		



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 46 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Nil	50 KL/year	50 KL/year


41.Source of Fuel HP petrol pump near Village Airoli, Dist Nagpur (apprx. 5 km from mine)

42.Mode of Transportation of fuel to site By road

43.Green Belt Development	Total RG area :	4 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	8000
	List of proposed native trees :	Neem, Mango, Shesham, Peepal, Jamun, Imli, Ber, Anar etc.
	Timeline for completion of plantation :	34000 trees will be planted in first 5 years and about 18000 trees will be planted after 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	Created to intercept dust, gaseous pollutants and noise
2	Azadirachta indica	Neem	1000	Created to intercept dust, gaseous pollutants and noise


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 47
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

3	Ficus religiosa	Peepal	1000	Created to intercept dust, gaseous pollutants and noise
4	Dalbergia sissoo	Shesham	1000	Created to intercept dust, gaseous pollutants and noise
5	Dalbergia sissoo	Shesham	1000	Created to intercept dust, gaseous pollutants and noise
6	Mangifera indica	Mango	1000	Created to intercept dust, gaseous pollutants, noise and fruits
7	Tamarindus indica	Imly	1000	Created to intercept dust, gaseous pollutants, noise and fruits
8	Ziziphus mauritiana	Ber	1000	Created to intercept dust, gaseous pollutants, noise and fruits

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 Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1 x 500 KVA
	During Operation phase (Demand load):	1 x 500 KVA
	Transformer:	1 x 500 KVA
	DG set as Power back-up during operation phase:	1 x 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:


It is proposed to install 10 Solar Light poles within mining lease area to saving energy by non-conventional method

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar light	5 lamps

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 48 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Air Pollution Control	Not Applicable	Dust Suppression by terrain
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Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 50000/-
	O & M cost:	Rs. 5000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Dust Suppression	-	1.5
2	Water Pollution Control	Desilting Tanks, garland drain, Boul	2	-
3	Pollution Monitoring	Hydrogeological monitoring, Air, W - 3	-	1
4	Conservation of Natural Resources ³	Solar Lightening arrangement, Rain	1.5	-
5	Plantation /Reclamation	Reclamation Biological reclamation	-	0.5
6	Occupational Health	Fire Fighting Equipments (portable)	0.5	0.5

51.Storage of chemicals (inflammable/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
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Not Applicable
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018


Page 49 of 109


 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	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	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	As per data submitted by PP 0.2 CMD domestic waste water will be generated from the proposed activity. PP to provide prefabricated STP.
Drainage pattern of the project	PP provided drains as per contour on the plot.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 50
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

Solid Waste Management	Waste rock generated will be used for backfilling of mined out u/g area and for maintenance of roads within the mining areas. No dump or any waste shall be stored, dumped outside mine area.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. PP to use closed container/vehicles for the transportation of the mine ore.
Energy Management	PP proposes two members of DG sets with capacity 500 KVA and 125 KVA respectively using diesel as a fuel.
Traffic circulation system and risk assessment	PP to provide 9 meters roads for the easy movement of vehicles. PP to ensure that no parking shall be on the public roads or on any private land.
Landscape Plan	PP proposes to plant trees on non mine land of the lease area.
Disaster management system and risk assessment	PP proposes to cordon the mine pit to avoid any accident. PP also providing Personal Protective Equipment for the safety of the workers.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP of cost of Rs. 4 Lakhs as a capital cost and Rs. 3.5 Lakhs/Yr. as a recurring cost for the maintenance of environmental parameters.
Any other issues related to environmental sustainability	PP shall maintenance of public roads on which their vehicles will ply for transportation of mine ore etc.

Brief information of the project by SEAC


PP obtained ToR from SEAC-1 in 134th meeting of SEAC-1 held on 7th to 9th September, 2016 under category 1(a)B1 with following additional ToR points,

1. The EIA Report shall be in accordance with the Model ToR prescribed by MoEF published in Notification dated April, 2015.
2. The EIA report should contain details of management of natural drainage, management of mine pit water and management of solid waste.
3. Detailed diagram showing lease boundary, garland canal, settling tank, stock and dump sites shall be submitted.

The Public Hearing was conducted on 16th September, 2017.


Now PP submitted EIA report for appraisal.

DECISION OF SEAC


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 51
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

During deliberations PP informed that, the lease permission granted by Director General of Mines till 2039 and process of land acquisition is in progress.

The proposal was appraised as per Office Memorandum issued by MoEF&CC dated 7th October, 2014 which states as below,

" It has been accordingly decided that the following documents relating to the acquisition of land w.r.t the project site may be considered as adequate by EAC's/SEAC's at the time of appraisal of the case for EC:

(i).....

(ii). In case the land is being acquired through private negotiations with the land owners, credible document showing the intent of the land owners to sell the land for the proposed project."

However, PP to note that, the EC granted for a project on the basis of aforesaid documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project and mentioned in the EC.

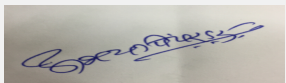
After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the following conditions.

Specific Conditions by SEAC:

- 1) PP shall obtain permission from the Competent Authority as per provisions of the Maharashtra Irrigation Act - 1967 for carrying out mining, quarrying operations requiring the use of explosives within a distance of 200 meters from boundaries of the canal.
- 2) PP shall comply with all the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
- 3) PP to carry out vibration studies and implement recommendations to ensure that, the impact of vibrations are contained within the battery limit of mining lease area.
- 4) PP to use enabling modern technologies for monitoring of the mine area to ensure safety of the workers.
- 5) PP to obtain permission from competent authority for drawing ground water.
- 6) PP to strictly implement approved mining plan and also mining closure plan as approved by the Competent Authority.
- 7) PP to use "nonnel" detonator for blasting purpose.
- 8) PP to maintain buffer area of 50 meters distance on both sides of the high tension electricity line passing through the plot area for the safety of the people on site. No movement shall be allowed under the high tension line.
- 9) PP to ensure that no dust pollution be created on site during operations or during transportation of the mine ore. PP to use water spray and closed containers for transportation.
- 10) PP to submit point wise compliance along with implementation schedule of the issues raised during the Public Hearing.
- 11) PP to provide prefabricated STP for the treatment of domestic sewage.
- 12) PP to prepare and implement CER (Corporate Environment Responsibility) plan in consultation with the District Authorities as per OM issued by MoEF&CC dated 01.05.2018.
- 13) PP to provide new and renewable energy for the illumination of the common areas, surrounding areas, office buildings etc.
- 14) PP to explore possibility to use fly ash for the refilling of mine pits.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 52
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

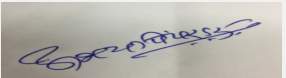
SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Application for obtaining Environmental Clearance of Stone Quarry of Shri Virchand Harideo Khatri, area 6.58 Ha, Survey No 357, at Village - Wasunde, Tehsil - Daund, District - Pune

Is a Violation Case: No


1.Name of Project	Stone Quarry (Minor Mineral)
2.Type of institution	Private
3.Name of Project Proponent	Shri Virchand Harideo Khatri
4.Name of Consultant	Srushti Seva Private Limited
5.Type of project	Mining project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Survey No 357
9.Taluka	Daund
10.Village	Wasunde
Correspondence Name:	Shri Virchand Harideo Khatri
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	At P.O. Baramati ,Tahsil Baramati, Pune District, Pin Code:- 413 102
City:	Baramati
11.Area of the project	Municipal
12.IOD/IOA/Concession/Plan Approval Number	No
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	6.58 Ha
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 22-06-2018
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	90000000

22.Number of buildings & its configuration


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
 November 2, 2018**

**Page 53
 of 109**

Signature: 
 Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
 (Chairman SEAC-I)**

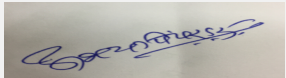
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	Not applicable		
24.Number of expected residents / users	Not applicable		
25.Tenant density per hectare	Not applicable		
26.Height of the building(s)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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Stone	Nil	8854	8854


32.Total Water Requirement

Dry season:	Source of water	Purchased Water / Mine Pit.
	Fresh water (CMD):	12.5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	12.5
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 54
of 109


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Wet season:	Source of water	Purchased Water / Mine Pit.
	Fresh water (CMD):	12.5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	12.5
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Nil	2	2	Nil	0.5	0.5	Nil	1.5	1.5
Gardening	Nil	10.5	10.5	Nil	10.5	10.5	Nil	Nil	Nil
Fresh water requirement	Nil	12.5	12.5	Nil	12.0	12.0	Nil	0.5	0.5

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	15 m
	Size and no of RWH tank(s) and Quantity:	One Mine Sump 10m x 10m x 2m and Water Pond of about 2993 sqm
	Location of the RWH tank(s):	Mine Sump at southern side of lease and , Water Pond at central part of the lease area
	Quantity of recharge pits:	3120 m3
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	-
	Budgetary allocation (O & M cost) :	-
	Details of UGT tanks if any :	No


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 55 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	Not Applicable. However, the rain water will be channelized to the natural water courses like gullies and depression through appropriate drainage system.
	Quantity of storm water:	2763 m3
	Size of SWD:	-
Sewage and Waste water	Sewage generation in KLD:	Nil
	STP technology:	Not Applicable
	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:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	13236.44 m3
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	-
Mode of Disposal of waste:	Dry waste:	Waste generated shall be stored at the designated Dump
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	-
Area requirement:	Location(s):	Central part near the western boundary of the leasehold area.
	Area for the storage of waste & other material:	3600 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	-
	O & M cost:	-
37.Effluent Charecterestics		



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 56 of 109

Signature:



Name: Dr. Umakant Dangat

Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Nil			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Nil	-	-

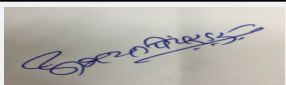
41.Source of Fuel

42.Mode of Transportation of fuel to site

43.Green Belt Development	Total RG area :	2.54 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	5250 trees
	List of proposed native trees :	Asan, Awala, Bor, Chichwa, Desi Badam, Hiwar, Kadulimb, Karak, Karanj, Kassod, Kavath, Kala Tembhorni, Kala Umbar, Maharukh, Moha, Pakad, Palas, PandharaTembhorni, Peru, Sag
	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	Terminalia alata	Asan	300	Created to intercept dust, gaseous pollutants and noise


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 57
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

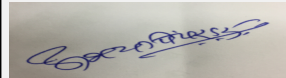
2	Emblica officinalis	Awala	300	Created to intercept dust, gaseous pollutants, noise and fruits
3	Ziziphus jujuba	Bor	150	Created to intercept dust, gaseous pollutants, noise and fruits
4	Albiziaodoratissima	Chichwa	300	Created to intercept dust, gaseous pollutants and noise
5	Terminaili acatapa	Desi badam	300	Created to intercept dust, gaseous pollutants, noise and fruits
6	Acacia leucophloea	Hiwar	300	Created to intercept dust, gaseous pollutants and noise
7	Azadirachta indica	Kadulimb	300	Created to intercept dust, gaseous pollutants and noise
8	Dendrocalamus strictus	Karak	300	Created to intercept dust, gaseous pollutants and noise
9	Pongamia pinnata	Karanj	300	Created to intercept dust, gaseous pollutants and noise
10	Senna siamea	Kassod	300	Created to intercept dust, gaseous pollutants and noise
11	Feronia limonia	Kavath	300	Created to intercept dust, gaseous pollutants, noise and fruits
12	Diospyros peregrina	Kala Tembhorni	300	Created to intercept dust, gaseous pollutants, noise and fruits
13	Ficus hispida	Kala Umbar	300	Created to intercept dust, gaseous pollutants, noise and fruits
14	Ailanthus excelsa	Maharukh	150	Created to intercept dust, gaseous pollutants and noise
15	Madhuca indica	Moha	300	Created to intercept dust, gaseous pollutants, noise and fruits
16	Ficus lacor	Pakad	150	Created to intercept dust, gaseous pollutants and noise
17	Butea monosperma	Palas	300	Created to intercept dust, gaseous pollutants and noise
18	Diospyros melanoxylon	Pandhara Tembhorni	200	Created to intercept dust, gaseous pollutants and noise
19	Psidium guava	Peru	200	Created to intercept dust, gaseous pollutants, noise and fruits
20	Tectona grandis	Sag	200	Created to intercept dust, gaseous pollutants, noise and timber

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


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 58
of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Power requirement:	Source of power supply :	Maharashtra Electricity Distribution Company
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	7.5 KW
	During Operation phase (Demand load):	7.5 KW
	Transformer:	Nil
	DG set as Power back-up during operation phase:	-
	Fuel used:	Not Applicable
	Details of high tension line passing through the plot if any:	A 440 KV overload transmission line is passing through south-west corner of the applied ML area. Safety distance of 50 m each side of the transmission line shall be maintained.

48. Energy saving by non-conventional method:

Installation of Solar Powered Street Lights in Wasunde Village under CER activities.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	-	-

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution	Nil	Black topping of approach road, Water Sprinkling during mining activities
Water Pollution	Nil	Construction of Garland Drain & Bund
Noise Pollution	Nil	Preventive Maintenance of all machinery, equipment
Overburden Dump Management	Nil	Construction of Garland Drain & Plantation

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 3,00,000/-
	O & M cost:	-

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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


b) Operation Phase (with Break-up):



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 59 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring Programme	Monitoring for Air, Water, Noise & Groundwater	Nil	3.0
2	Air Pollution	Black topping of approach road, Water Sprinkling during mining activities	3.0 (Included under mining cost)	3.0
3	Air Pollution & Noise Pollution	Plantation	3.0	1.0
4	Overburden Dump Management	Construction of Garland Drain & Plantation	Cost of garland drain construction and maintenance is included in mining cost and plantation cost is included in above	Cost of garland drain construction and maintenance is included in mining cost and plantation cost is included in above
5	Water Treatment	Treatment of Domestic Effluent	2.0	0.25
6	Water Pollution	Construction of Garland Drain & Bund	Cost of garland drain and bund construction and maintenance is included in mining cost	Cost of garland drain and bund construction and maintenance is included in mining cost
7	Noise Pollution	Preventive Maintenance of all machinery, equipment	Included in equipment cost	-
8	Occupational Health & Safety	Periodic Health Check-ups of Workers	2.0	1.75

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

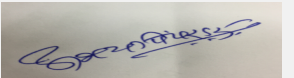
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	Not Applicable
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

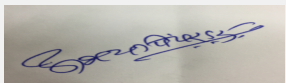
Page 60
of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Parking details:	Number and area of basement:	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Mayureshwar Supe Wildlife Sanctuary is located at a distance about 13.40 km in the west direction of the applied mining lease area.
	Category as per schedule of EIA Notification sheet	1(a) B2
	Court cases pending if any	Nil
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-


SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	As the project is category B2 no EIA is required, PP has prepared Environment Management Plan. PP proposes water sprinkling during the operations to reduce air pollution due to dust.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP generates 1.5 CMD waste water from domestic use, PP to ensure to provide prefabricated STP.
Drainage pattern of the project	PP proposes drains considering the contour on the plot.
Ground water parameters	PP to obtain permission from Competent Authority for drawing ground water if required.


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 61
of 109**

Signature: 
**Name: Dr. Umakant Dangat
(Chairman SEAC-I)**

Solid Waste Management	Solid waste will be stored as dump on the lease area which will be subsequently converted to the green belt.
Air Quality & Noise Level issues	PP proposes air quality monitoring as per CPCB guidelines and allocated funds in the EMP. PP to use closed vehicles for the transportation of stones to reduce dust pollution.
Energy Management	The electrical demand will be 7.5 KW which will be supplied by Maharashtra Electricity Distribution Company.
Traffic circulation system and risk assessment	PP to provide nine meter wide roads for easy movement of vehicles.
Landscape Plan	The dumps will be converted into green belt.
Disaster management system and risk assessment	PP to maintain buffer area of 50 meters distance on both sides of the high tension electricity line passing through the plot area for the safety of the people on site. No movement shall be allowed under the high tension line.
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	PP proposes EMP cost of Rs. 10 Lakhs as capital and Rs. 9.0 Lakhs/Yr. as operation and maintenance cost for environmental parameters.
Any other issues related to environmental sustainability	PP shall ensure maintenance of public roads on which their vehicles will ply for transportation of mined material etc.

Brief information of the project by SEAC

PP submitted their application for prior Environment Clearance under category 1(a) B2 of the EIA Notification, 2006 amended from time to time.

DECISION OF SEAC

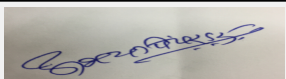
After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal for prior Environment Clearance to the SEIAA subject to the following conditions.

Specific Conditions by SEAC:

- 1) PP to maintain buffer area of 50 meters distance on both sides of the high tension electricity line passing through the plot area for the safety of the people on site. No movement shall be allowed under the high tension line.
- 2) PP to provide prefabricated STP for the treatment of domestic sewage.
- 3) PP to provide Personal Protective Equipments like nose mask with hepa filters, helmets, safety shoes, ear plugs/muffs, safety goggles etc. to the workers to prevent accidents.
- 4) PP to use "nonnel" detonators for the blasting.
- 5) PP to include water foot print and carbon foot print monitoring in the Environment Management Plan.
- 6) PP to use new and renewable energy source for the illumination of common areas, peripheral lightings, office lights etc.
- 7) PP to prepare and implementation of CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
- 8) PP to strictly implement approved mining plan and also mining closure plan as approved by the Competent Authority.


FINAL RECOMMENDATION

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


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
 November 2, 2018**

**Page 62
 of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
 (Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Proposed Expansion of Synthetic Organic Chemicals Manufacturing Facility At Plot No. 19-A/1+2, MIDC Mahad, District Raigad by Sudarshan Chemical Industries Ltd.

Is a Violation Case: No


1.Name of Project	Proposed Expansion of Synthetic Organic Chemicals Manufacturing Facility At Plot No. 19-A/1+2, MIDC Mahad, District Raigad by Sudarshan Chemical Industries Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Sudarshan Chemical Industries Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial Project, Category 5 (f)- B as per EIA notification 2006
6.New project/expansion in existing project/modernization/diversification in existing project	New project. Expansion within existing manufacturing facility
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. 19-A/1+2, MIDC Mahad, District Raigad
9.Taluka	Mahad
10.Village	Nangalwadi (Nadgaon,Kambale)
Correspondence Name:	Mr. Nagesh Kamat
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	-- IOD/IOA/Concession/Plan Approval Number: MIDC approved plot plan Approved Built-up Area: 19127.2
13.Note on the initiated work (If applicable)	Not applicable. Proposed expansion is within existing manufacturing facility.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approved plot plan
15.Total Plot Area (sq. m.)	132891 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.): 52258.31
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Approved Non FSI area (sq. m.): Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	4800000000

22.Number of buildings & its configuration


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**


**Page 63
of 109**

Signature: 
**Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)**

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))	Minimum 6 m		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 m		
29.Existing structure (s) if any	Existing facility is for manufacturing of pigments. Proposed expansion is within existing manufacturing facility.		
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	Copper Phthalocyanine Blue	0 TPA	13440 TPA	13440 TPA
2	ALPHA BLUE	2520 TPA	2280 TPA	4800 TPA
3	BETA BLUE	2160 TPA	3876 TPA	6036 TPA
4	PIGMENT GREEN	1680 TPA	3540 TPA	5220 TPA
5	QUINACRIDONE	264 TPA	-264 TPA (Downward revision)	0 TPA
6	MICA PEARL PIGMENTS	2136 TPA	864 TPA	3000 TPA
7	Cogen Power	0 MW	10 MW	10 MW
8	Sulphuric Acid (15-25%) (Byproduct)	30000 TPA	42000 TPA	72000 TPA
9	Ammonium sulphate (Wet-30%) (Byproduct)	0 TPA	20926 TPA	20926 TPA
10	Di Calcium Phosphate (Dry) (Byproduct)	0 TPA	4672 TPA	4672 TPA
11	Phosphoric acid (Byproduct)	0 TPA	4672 TPA	4672 TPA


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018


Page 64 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

12	Single Super Phosphate (Dry) (Byproduct)	0 TPA	7291 TPA	7291 TPA
13	BaSO ₄ (Byproduct)	0 TPA	16968 TPA	16968 TPA
14	Phospho Gypsum (Wet-25%) (Byproduct)	0 TPA	19592 TPA	19592 TPA
15	Aluminum Chloride (5-15%) (Byproduct)	18000 TPA	21150 TPA	39150 TPA
16	Aluminium hydroxide (Dry)	0 TPA	4275 TPA	4275 TPA
17	Copper sulphate (Dry) (Byproduct)	0 TPA	664 TPA	664 TPA
18	Chemical Gypsum (Byproduct)	7200 TPA	9669 TPA	16869 TPA
19	Recovered pigments (Byproduct)	300 TPA	563 TPA	863 TPA
20	Hypochlorite (<10%)	0 TPA	13383 TPA	13383 TPA
21	Hydrochloric Acid (25%-30%)	0 TPA	7830 TPA	7830 TPA
22	Phosphoric Acid (12-15%) (Byproduct)	7200 TPA	-7200 TPA	0 TPA
23	Phosphoric Acid (30-35%) (Byproduct)	2400 TPA	-2400 TPA	0 TPA
24	Recovered Solvents (Byproduct)	1200 TPA	-1200 TPA	0 TPA

32.Total Water Requirement

Dry season:	Source of water	MIDC
	Fresh water (CMD):	9961 (existing & proposed)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	13361 (existing & proposed)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 65 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	172	96	268	31	3	34	141	93	234
Industrial Process	4635	6753	11388	745	383	1128	3890	6370	10260
Cooling tower & thermopack	245	1228	1473	63	1010	1073	182	218	400
Gardening	41	191	232	41	191	232	0	0	0


34.Rain Water Harvesting (RWH)

Level of the Ground water table:	--
Size and no of RWH tank(s) and Quantity:	--
Location of the RWH tank(s):	--
Quantity of recharge pits:	--
Size of recharge pits :	--
Budgetary allocation (Capital cost) :	--
Budgetary allocation (O & M cost) :	--
Details of UGT tanks if any :	--

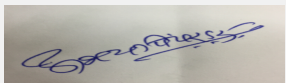

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 66 of 109


Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	Sewage generation in KLD:	234 (existing & proposed)
	STP technology:	Sewage will be treated suitably in upgraded ETP.
	Capacity of STP (CMD):	--
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Minor quantity of construction debris will be generated.
	Disposal of the construction waste debris:	Construction debris will be dispose as per norms.
Waste generation in the operation Phase:	Dry waste:	MICA Waste-1800 MTPM, Fly Ash-12355 MTPA, Paper/Canteen Waste-18 MTPA, Rubber hand gloves, PVC shoes, Tarpoulien, Paper bags-5 MTPA, Broken discarded glass-2.5 MTPA, Insulating Material-5 MTPA, Excess Biomass from ETP-1 MTPA
	Wet waste:	--
	Hazardous waste:	Sludge from WWT, Chemical Containing Residue, Used/Spent oil, Contaminated oil soaked cotton, Discarded Asbestos, Spent Solvent, Discarded containers/ liners, Filter & Filter Material, Spent Carbon
	Biomedical waste (If applicable):	15 Kg/Year
	STP Sludge (Dry sludge):	--
	Others if any:	--
Mode of Disposal of waste:	Dry waste:	Dry waste will be dispose as per Norms
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be dispose as per Hazardous waste Rule 2016
	Biomedical waste (If applicable):	As Per Biomedical Waste Rule
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	Location(s):	within plot
	Area for the storage of waste & other material:	within plot
	Area for machinery:	--


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 67 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

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

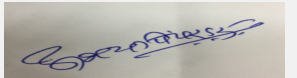
37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	1 to 4	6.5 to 8	6.5 to 8.5
2	Total Suspended solids	mg/l	180- 260	< 100	< 100
3	Total Dissolved solids	mg/l	2000-3000	< 3000	--
4	Chemical oxygen demand	mg/l	1200-1400	< 250	< 2250
5	Ammonical nitrogen	mg/l	< 100	< 50	< 50
Amount of effluent generation (CMD):		10894 CMD (Existing+ proposed)			
Capacity of the ETP:		9.5 MLD (Existing + proposed)			
Amount of treated effluent recycled :		3400 CMD (Existing + proposed)			
Amount of water send to the CETP:		7494 CMD (Existing + proposed)			
Membership of CETP (if require):		Yes, Unit is member of CETP Mahad			
Note on ETP technology to be used		Effluent from Plant > Filtration > Neutralization > Flocculation > Primary Clarifier > Sludge Removal > Aeration Tank > Sludge Removal > Secondary Clarifier > Treated Effluent			
Disposal of the ETP sludge		ETP Sludge will be disposed to CHWTSDF			

38. Hazardous Waste Details


Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Sludge from waste water treatment	35.3	MT/A	500	537	1037	Disposal to CHWTSDF
2	Chemical Containing Residue	34.1	MT/A	0.1	0.4	0.5	Disposal by send it to authorized decontamination facility/recycler or reuse send back to supplier.
3	Used/ Spent oil	5.1	Ltr/A	1000	4000	5000	disposal by selling to Register Re-refiner or lubrication for nut bolt.
4	Contaminated oil soaked cotton	33.2	kg/A	250	1000	1250	CHWTSDF
5	Discarded Asbestos	15.2	MT/A	1.2	0	1.2	to CHWTSDF
6	Spent Solvent	20.2	Ltr/A	50	0	50	Sale to authorized party/CHWTSDF
7	Discarded containers/ liners	33.1	Nos./A	4500	18000	22500	Sale to authorized party/CHWTSDF
8	Filter & Filter Material	36.2	MT/A	1	4	5	to CHWTSDF
9	Spent carbon	36.2	Kg/ A	200	800	1000	to CHWTSDF

39. Stacks emission Details

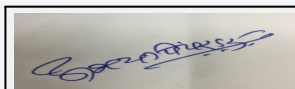

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 68 of 109


Dr. Umakant Dangat (Chairman SEAC-I)

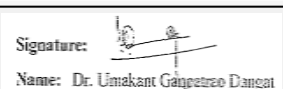
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Stack attached to Boiler (7.5T & 10T) (Existing)	Coal/ Briquette/ FO -34 MTPD	1	36	1600	140-170
2	Stack attached to HCl scrubber (Existing)	--	2	20	300	30-45
3	Stack attached to Calciner/Blender-Mica Plant (Existing)	--	3	23	1200	30-50
4	Stack attached to chlorine scrubber (Existing)	--	4	20	300	60-80
5	Stack attached to Dryer Mica (Existing)	--	5	18	1200	30-50
6	Stack attached to Scrubber Mica Reactor (Existing)	--	6	16	400	30-50
7	Stack attached to D G Set (1000 KVA) (Existing)	Diesel- 2.5 KLPM	7	16.5	150	110-130
8	Stack attached to Hot air generator (Existing)	LDO-1 MTPD	8	23	350	150-250
9	Stack attached to Calciner Crude Mica (Proposed)	--	9	6	200	50-70
10	Stack attached to Green drowning vessel (Proposed)	--	10	24	400	50-70
11	Stack attached to Wet Scrubbing system (Green charging Vessel) (Proposed)	--	11	10	300	30-50
12	Stack attached to Emergency Chlorine Scrubbing System (Proposed)	--	12	16	300	30-50
13	Stack attached to Continues Dryer (Proposed)	--	13	7	800	50-70
14	Stack attached to Continues Dryer (Proposed)	--	14	7	600	50-70
15	Stack attached to Spin Flash dryer (P/A) (Proposed)	--	15	10	600	40-60
16	Stack attached to 30 ACM DC (Proposed)	--	16	5	400	30-50
17	Stack attached to 60 ACM DC (Proposed)	--	17	4	600	30-50
18	Stack attached to Spin Flash dryer (Green SD plant) (Proposed)	--	18	9	300	50-70



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 69 of 109



Dr. Umakant Dangat (Chairman SEAC-I)

19	Stack attached to Spray Dryer (Green SD Plant) (Proposed)	--	19	12.5	1000	50-70
20	Stack attached to CPC reaction vessel (Proposed)	--	20	20	300	60-80
21	Stack attached to Co-Gen plant (Proposed)	Coal-258 MTPD	21	72	1600	300-350
22	Stack attached to Thermopac hot Oil System (Proposed)	Coal-28 MTPD	22	36	1600	225-280
23	Stack Attached to CPC SFD (Proposed)	--	23	10	600	40-60
24	Stack Attached to DCP SFD (Proposed)	--	24	10	600	50-70
25	Stack attached to Calciner Crude Mica (Proposed)	--	25	6	200	50-70
26	Stack attached to Calciner/Blender-Mica Plant (Proposed)	--	26	23	1200	30-60
27	Stack attached to Scrubber Mica Reactor (Proposed)	--	24	16	400	30-60
28	Stack attached to D G Set (3500 KVA) (Proposed)	Diesel-15 KLPM	28	16.5	150	110-150

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	34 MTPD	252 MTPD	286 MTPD
2	Briquette	54 MTPD	0 MTPD	54 MTPD
3	LDO	1 MTPD	1 MTPD	2 MTPD
4	Diesel	2.5 KLPM	15 KLPM	18 KLPM

41.Source of Fuel from nearby source

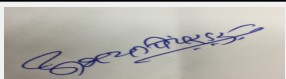
42.Mode of Transportation of fuel to site By road

43.Green Belt Development

Total RG area :	as per MIDC DC rule
No of trees to be cut :	--
Number of trees to be planted :	as per green belt development
List of proposed native trees :	--
Timeline for completion of plantation :	as per project development phase


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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	--	--	--	--


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 70 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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	--	--	--

47.Energy

Power requirement:	Source of power supply :	Partly From Inhouse Cogen & partly from MSEDCL
	During Construction Phase: (Demand Load)	from MSEDCL
	DG set as Power back-up during construction phase	from existing 1000 KVA DG set
	During Operation phase (Connected load):	Partly From Inhouse Cogen & partly from MSEDCL
	During Operation phase (Demand load):	existing- 2.5 MW & Add. proposed- 11.5 MW
	Transformer:	--
	DG set as Power back-up during operation phase:	Existing DG set- 1000 KVA & Add. proposed DG set- 3500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:


--

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--


50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution FROM Utilities, process, DG sets	Stack, bag filter, Cyclone, Process scrubber	Stack, ESP, cyclone Process scrubber
Effluent from Utilities, Process	ETP	ETP, RO, MEE
Noise pollution	PPE, Acoustic enclosure	PPE, Acoustic enclosure
Hazardous waste	Disposal to CHWTSDF, Authorized recycler	Disposal to CHWTSDF, Authorized recycler


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 71 of 109

Signature: 
Name: Dr. Umakant Gangotree Dangat (Chairman SEAC-I)

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	From Utilities, Process, DG Set	500	300
2	Environmental Monitoring	Regular Monitoring	50	10
3	Water Pollution Control	ETP, RO, MEE	2300	100
4	Hazardous waste & Solid Waste management	Storage & Disposal Of Hazardous Waste & Non Hazardous Waste	200	300
5	Green Build Development	Development & maintenance Of Green belt	50	10
6	Green Initiative	Installation & maintenance of Windmill	9000	150
7	Occupational Health & Safety	PPE, Safety Training	2000	120
8	Social welfare & upliftment	ESC budget	100	0


51.Storage of chemicals (inflammable/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
Sulphuric Acid (15-30%)	Existing / Proposed	Within Plot	190 MT/239 MT	190 MT/239 MT	As per Requirement	Nearby Source	By road
Aluminum Chloride(5-15%)	Existing / Proposed	Within Plot	140 MT/93 MT	140 MT/93 MT	As per Requirement	Nearby Source	By road
Hypochlorite (<10%)	Existing / Proposed	Within Plot	30 MT/170 MT	30 MT/170 MT	As per Requirement	Nearby Source	By road
DCT/ONT/Naptha (C10)	Existing / Proposed	Within Plot	0 MT/12 MT	0 MT/12 MT	As per Requirement	Nearby Source	By road
Sulphuric Acid 98%	Existing / Proposed	Within Plot	90 MT/305 MT	90 MT/305 MT	As per Requirement	Nearby Source	By road


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 72
of 109**

Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**

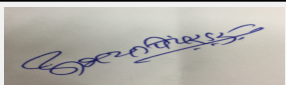
Ammonium Carbonate Solution (10 to 20%)	Existing / Proposed	Within Plot	0 MT/379 MT	0 MT/379 MT	As per Requirement	Nearby Source	By road
Caustic (48%)	Existing / Proposed	Within Plot	120 MT/92 MT	120 MT/92 MT	As per Requirement	Nearby Source	By road
Hydrochloric acid (HCl)	Existing / Proposed	Within Plot	25 MT/0 MT	25 MT/0 MT	As per Requirement	Nearby Source	By road
IBN	Existing / Proposed	Within Plot	0 MT/15 MT	0 MT/15 MT	As per Requirement	Nearby Source	By road
MCB	Existing / Proposed	Within Plot	0 MT /8 MT	0 MT /8 MT	As per Requirement	Nearby Source	By road
Chlorine	Existing / Proposed	Within Plot	40 MT/92 MT	40 MT/92 MT	As per Requirement	Nearby Source	By road

52.Any Other Information

No Information Available


53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	Number and area of basement:	--
	Number and area of podia:	--
	Total Parking area:	15894.08 sq.m.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	Min. 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	5 (f), category B
	Court cases pending if any	--
	Other Relevant Informations	--


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 73 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)


	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-12-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Project cost	Project cost submitted during TOR application- Rs. 480 Crores	Revised Project cost: Rs. 264.44 Crores
Air Pollution Control (From Utilities, Process, DG Set)	Capital cost: 500 Lacs, O & M cost: 300 Lacs/Yr	Capital cost: 275 Lacs, O & M cost: 165 Lacs/Yr
Environmental Monitoring (Regular Monitoring)	Capital cost: 50 Lacs, O & M cost: 10 Lacs/Yr	Capital cost: 28 Lacs, O & M cost: 6 Lacs/Yr
Water Pollution Control (ETP, RO, MEE)	Capital cost: 2300 Lacs, O & M cost: 100 Lacs/Yr	Capital cost: 1267 Lacs, O & M cost: 55 Lacs/Yr
Hazardous waste & Solid Waste management (Storage & Disposal)	Capital cost: 200 Lacs, O & M cost: 300 Lacs/Yr	Capital cost: 110 Lacs, O & M cost: 165 Lacs/Yr
Green Belt Development (Development & Maintenance of Green belt)	Capital cost: 50 Lacs, O & M cost: 10 Lacs/Yr	Capital cost: 28 Lacs, O & M cost: 6 Lacs/Yr
Green Initiative (Installation & maintenance of windmill)	Capital cost: 9000 Lacs, O & M cost: 150 Lacs/Yr	Capital cost: 4958 Lacs, O & M cost: 83 Lacs/Yr
Occupational Health & Safety (PPE, Safety Training)	Capital cost: 2000 Lacs, O & M cost: 120 Lacs/Yr	Capital cost: 1102 Lacs, O & M cost: 66 Lacs/Yr
Social welfare & upliftment (CER Budget)	Capital cost: 100 Lacs, O & M cost: 0 Lacs/Yr	Capital cost: 198 Lacs
Total EMP budget	EMP Budget proposed during TOR: Capital cost: 14200 Lacs, O & M cost: 990 Lacs/Yr	Revised EMP Budget: Capital cost: 7966 Lacs, O & M cost: 545 Lacs/Yr

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


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 74 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

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	

SEAC-AGENDA-0000000161

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 146th meeting of SEAC-1 held on 31st January, 2018 where in ToR was granted along with following additional ToR points,

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 entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas, 33% green belt, rain water harvesting etc.
3. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
4. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
5. PP to submit detailed water balance calculation showing water required for each activity, water required for domestic use, generation of waste water and its treatment and disposal mechanism along with design of Effluent Treatment Plant and commitment for achieving treated effluent parameters.
6. PP to obtain permission from MIDC to develop green belt around the boundary of the premises and submit details of green belt development including action plan for achieving 33% green belt area; PP to ensure land width not less than 1500 trees/Ha, giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and scheme for greening of roads used for the project shall also be incorporated. PP to make necessary arrangement of drip irrigation in the green belt areas so as to ensure maximum survival of the plants/trees.
7. PP to submit copy of HAZOP and Quantitative Risk Assessment Report.
8. PP to submit specific CSR activities including funds allocated for CSR, activities to be involved with time lines for its implementation in consultation with the District Authorities. PP to maintain separate accounts for CSR/EMP funds.
9. PP to submit plan for byproduct storage, reuse and disposal along with names of vendors.
10. PP to copy of on site emergency plan.
11. PP to submit copy of permission obtained from CETP to discharge treated effluent in the existing CETP.
12. PP to explore possibility of heat integration across the process and submit report.
13. PP to include chemical handling protocol in the EIA report.
14. PP to submit structural stability certificate of existing buildings on the site.
15. PP to provide solar energy for the illumination of administrative building area and street lights.

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

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

PP to carryout base line monitoring activity after grant of ToR and use the same of the preparation of the EIA/EMP report.

Now PP submitted EIA/EMP report for appraisal.

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018	Page 76 of 109	 Dr. Umakant Dangat (Chairman SEAC-I)
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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.

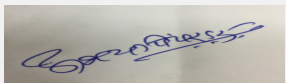
Specific Conditions by SEAC:

- 1) PP to submit revised layout as discussed in the meeting.
- 2) PP to provide ZLD for the effluent generates from the proposed expansion activities. PP to submit their plan along with design details of the ZLD plant.
- 3) PP to submit chemical compatibility chart storage and handling based on the chemical properties of the raw materials.
- 4) PP to submit detailed structural stability certificate from accredited certifying agency to accommodate proposed expansion in the existing plants.
- 5) PP to include water and carbon foot print monitoring in the Environment Management Plan,
- 6) PP to submit their plan for the CER approved by District Authorities.

FINAL RECOMMENDATION


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

SEAC-AGENDA-0000000161


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 77
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for EXPANSION OF M.S BILLETS MANUFACTURING (EXISTING CAPACITY 100 MTD TO 500 MTD) EXPANSION BY 400 MTD

Is a Violation Case: No


1.Name of Project	NILANJAN IRON PVT. LTD.
2.Type of institution	Private
3.Name of Project Proponent	MR. ANKUSH SINGLA
4.Name of Consultant	--
5.Type of project	FIVE STAR MIDC KAGAL, DIST :KOLHAPUR
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSION OF EXISTING M.S BILLETS MANUFACTURING PLANT 100 MTD TO 500 MTD (EXPANSION BY 400 MTD)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	YES, EC -2009/CR134/TC2. dated- 09/10/2009 from Environment department GoM.
8.Location of the project	PLOT NO:B-07, FIVE STAR MIDC KAGAL
9.Taluka	KARVEER
10.Village	HALSAWADE
Correspondence Name:	MR. ANKUSH SINGLA
Room Number:	N.A.
Floor:	N.A.
Building Name:	N.A.
Road/Street Name:	N.A.
Locality:	PLOT NO:B-07, FIVE STAR MIDC KAGAL
City:	KOLHAPUR
11.Area of the project	FIVE STAR MIDC AREA-KAGAL
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	PROPOSED EXPANSION ACTIVITY WILL BE START AFTER ENVIRONMENTAL CLEARANCE AND MPCB CONSENT.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	APPROVED MIDC AREA
15.Total Plot Area (sq. m.)	10174.00 SQM
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 00
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 21-06-2018
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	190000000

22.Number of buildings & its configuration



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 78 of 109



Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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	NA			
24.Number of expected residents / users	Not applicable			
25.Tenant density per hectare	Not applicable			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	NA			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	TURNING RADIUS 09 METERS.			
29.Existing structure (s) if any	Existing induction furnace shed is available with industry. The induction furnace capacity is 12 MT X 9 heat = 108 MTD. Expansion will be carried out in existing premises of the industry by installing two new induction furnaces will be installed. For expansion project two nos furnaces will be installed. 1) New 20 MT X 13 Heats= 260 MTD (Existing furnace 12 MT replaced with 20 MT) 2) New 20 MT X 12 Heats(1Heat+)=240 MTD, Total: 500 MTD (3-4% will be slag generation in total melting process)			
30.Details of the demolition with disposal (If applicable)	Not applicable			
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	MS BILLETS	3000	12000	15000
32.Total Water Requirement				



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 79 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Dry season:	Source of water	MIDC KAGAL	
	Fresh water (CMD):	60 CMD FOR EXISTING PROJECT. 90 WATER FOR PROPOSED PROJECT , THE TOTAL REQUIREMENT OF WATER WILL BE AFTER EXPANSION IS 150 CMD. THE WATER IS MAINLY REQUIRED FOR COOLING PURPOSE IN THE PROCESS, THE EVAPORATION LOSSES WILL BE 60 CMD. THE 60 CMD WATER IS REQUIRED FOR DAILY TOP-UP, THE 90 CMD WATER IS REUSE AFTER COOLING PROCESS.	
	Recycled water - Flushing (CMD):	Not applicable	
	Recycled water - Gardening (CMD):	05 CMD	
	Swimming pool make up (Cum):	Not applicable	
	Total Water Requirement (CMD) :	60 CMD	
	Fire fighting - Underground water tank(CMD):	50 CMD UG TANK WILL BE CONSTRUCTED	
	Fire fighting - Overhead water tank(CMD):	Not applicable	
	Excess treated water	Not applicable	
Wet season:	Source of water	MIDC KAGAL	
	Fresh water (CMD):	60 CMD WATER FOR EXISTING PROJECT. 90 CMD WATER FOR PROPOSED PROJECT , THE TOTAL REQUIREMENT OF WATER WILL BE AFTER EXPANSION IS 150 CMD. THE WATER IS MAINLY REQUIRED FOR COOLING PURPOSE IN THE PROCESS, THE EVAPORATION LOSSES WILL BE 60 CMD. THE 60 CMD WATER IS REQUIRED FOR DAILY TOP-UP, THE 90 CMD WATER IS REUSE AFTER COOLING PROCESS.	
	Recycled water - Flushing (CMD):	Not applicable	
	Recycled water - Gardening (CMD):	05 CMD	
	Swimming pool make up (Cum):	Not applicable	
	Total Water Requirement (CMD) :	60 CMD	
	Fire fighting - Underground water tank(CMD):	50 CMD UG TANK WILL BE CONSTRUCTED	
	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)


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 80 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)


Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	05	03	08	02	01	03	03	02	05
Industrial Process	60	90	150	24	36	60	00	00	00
Fresh water requirement	24	36	60	00	00	00	00	00	00
Gardening	03	02	05	03	02	05	00	00	00

34. Rain Water Harvesting (RWH)	Level of the Ground water table:	10-15 M BELOW GROUND LEVEL. POST MONSOON 5-10 M BELOW GROUND LEVEL.
	Size and no of RWH tank(s) and Quantity:	TWO NOS OF RAINWATER HARVESTING TANK, NUMBERS OF TANK WILL BE INCREASED IF REQUIRED.
	Location of the RWH tank(s):	WITHIN INDUSTRIAL PREMISES.
	Quantity of recharge pits:	05 NOS RAIN WATER HARVESTING PITS , NUMBERS OF PITS WILL BE INCREASED IF REQUIRED.
	Size of recharge pits :	DETAILS RAIN WATER HARVESTING PLAN WILL BE INCORPORATE IN FINAL EIA REPORT.
	Budgetary allocation (Capital cost) :	RS.600000/-
	Budgetary allocation (O & M cost) :	RS.350000/-
	Details of UGT tanks if any :	1 no : 10 m X 8 M X 3 m

35. Storm water drainage	Natural water drainage pattern:	STORM WATER DRAIN SYSTEM WILL BE CONSTRUCTED AROUND THE PLANT
	Quantity of storm water:	1017 m3 based on 100 mm rainfall in an hour
	Size of SWD:	300 mm X 400 mm X 3000 mm


Sewage and Waste water	Sewage generation in KLD:	05 KLD
	STP technology:	MBBR TECHNOLOGY
	Capacity of STP (CMD):	10 CMD
	Location & area of the STP:	IN THE PREMISES OF INDUSTRY.
	Budgetary allocation (Capital cost):	Rs.450000/-
	Budgetary allocation (O & M cost):	Rs.150000/-

36. Solid waste Management


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 81 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

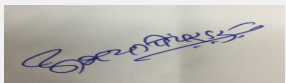
Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	EXISTING SLAG: 3.00 MTD, PROPOSED SLAG GENERATION:12.00 MTD, PROCESS DUST Existing 100 KG/DAY, Proposed 400 KG/DAY.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.1MTA
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	SLAG WILL BE CRUSHED IN SLAG CRUSHER AND IRON WILL BE RECOVERED BY MAGNETIC SEPARATOR. REMAINING CRUSHED SLAG USED FOR BRICK MAKING AND OTHER CONSTRUCTION USES.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	IT WILL USED AS MANURE FOR GARDENING.
	Others if any:	NA
Area requirement:	Location(s):	WITHIN INDUSTRIAL PREMISES.
	Area for the storage of waste & other material:	70 SQ. MTR
	Area for machinery:	50 SQ. MTR
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.1500000/-
	O & M cost:	Rs.400000/-

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	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		WATER WILL BE SETTLED AND COOLED AND WILL BE REUSED FOR COOLING PURPOSE.			
Disposal of the ETP sludge		NA			

38. Hazardous Waste Details

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


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 82 of 109


Dr. Umakant Dangat (Chairman SEAC-I)

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 FUME EXTRACTION	ELECTRICITY	1	30	1.6	50-60
2	PROPOSED FUMES EXTRACTION	ELECTRICITY	1	35	1.6	50-60

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	ELECTRICITY	5.00 MW	5.00 MW	10.00 MW

41.Source of Fuel MSEDCL

42.Mode of Transportation of fuel to site TRANSMISSION LINE OF MSEDCL

43.Green Belt Development

43.Green Belt Development	Total RG area :	NA
	No of trees to be cut :	00
	Number of trees to be planted :	700
	List of proposed native trees :	NEEM, BABUL, BAKUL, MANGO, AAPTA, BER
	Timeline for completion of plantation :	FOUR YEARS

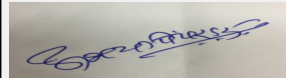
44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	AZATIRECTA INDICA	NEEM	170	SHADY TREE, MEDICINAL USE
2	ACACIA NILOTICA	BABUL	120	SHADY TREE WITH YELLOW FLOWERS
3	MIMUSO PSELENGI	BAKUL	40	SHADY TREE WITH SMALL WHITE FRAGRANT FLOWERS
4	MANGIFERA INDICA	MANGO	150	SHADY TREE
5	BAUHINIA RACEMOSA	AAPTA	70	SMALL TREE WITH SMALL WHITE FLOWERS, BUTTERFLY HOST PLANT
6	ZIZIPHUS MAURITIANA	BER	150	FAST GROWING & HARDY PLANT

45.Total quantity of plants on ground

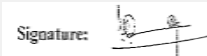
46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	AMERICAN ALEO	2*2	4
2	BLACK PHYSICNUT	3*3	9
3	GARDEN CROTON	1*1	1
4	CHINA ROSE	2*2	4


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 83 of 109


Dr. Umakant Dangat (Chairman SEAC-I)

47. Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	MSEB 1MW
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	10.00 MW
	During Operation phase (Demand load):	10.00 MW
	Transformer:	YES
	DG set as Power back-up during operation phase:	500 KVA 2 NOS.
	Fuel used:	HSD/LDO
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Nil

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED LIGHT USED FOR STREET LIGHT AND IN OFFICE.	AS PER REQUIREMENT.

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
FURNACE (AIR POLLUTION)	FUMES EXTRACTION SYSTEM HOOD FOLLOWED BY VENTURY SCRUBBER TO STACK	FUMES EXTRACTION SYSTEM HOOD FOLLOWED BY VENTURY SCRUBBER TO STACK.
DG SETS (NOISE POLLUTION),	ACOUSTIC ENCLOSURE PROVIDED.	ACOUSTIC ENCLOSURE WILL BE PROVIDED.
DOMESTIC WASTE WATER	SEPTIC TANK WITH SOAK PIT	STP PROPOSED FOR DOMESTIC WASTE WATER TREATMENT.
SOLID WASTE (SLAG)	COLLECTION ,SEGREGATION	COLLECTION ,SEGREGATION & CRUSHING

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 2.00 LACS IS ALOCATED FOR LED LIGHTS
	O & M cost:	APP. Rs. 0.25 IS REQUIRED FOR O & M.

51. Environmental Management plan Budgetary Allocation


a) Construction phase (with Break-up):



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 84 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR POLLUTION CONTROL EQUIPMENT	POLLUTION CONTROL EQUIPMENT FOR AIR POLLUTION CONTROL MEASURES	80.00	15.00
2	WATER POLLUTION CONTROL TREATMENT	WATER TREATMENT PLANTS STP WILL BE PROVIDED	03.50	00.80
3	SOLID WASTE MANAGEMENT	SOLID WASTE DISPOSAL & MANAGEMENT IN THE FORM OF MANURE & BRICK MANUFACTURING	15.00	04.00
4	OCCUPATIONAL HEALTH SAFETY MANAGEMENT	SAFETY MEASURES IN RESPECT TO HEALTH FACILITIES WILL BE PROVIDED TO WORKERS	03.00	01.00
5	ENVIRONMENTAL CELL & MONITORING	MANAGEMENT OF ENVIRONMENT BY ENVIRONMENTAL CELL	06.00	03.50
6	GREEN BELT DEVELOPMENT	PLANTATION OF VARIOUS NATIVE & OTHER SPECIES DEVELOPING THE GREEN BELT	03.00	01.00
7	NA	TOTAL	110.50	25.30

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

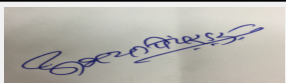
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	00	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

Nos. of the junction to the main road & design of confluence:	NA
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

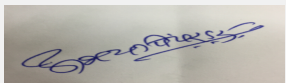
Page 85 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	THE AREA EARMARKED FOR THE PARKING IS 1220.00 SQM (ITS 12%OF THE TOTAL PLOT AREA)
	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:	50-60 TRUCKS
	Width of all Internal roads (m):	THE INTERNAL ROADS WIDTH IS 06.00 METERS.
CRZ/ RRZ clearance obtain, if any:	NA	
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA	
Category as per schedule of EIA Notification sheet	3(a)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


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 86
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

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 3(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The proposal was earlier considered in the 154th meeting of SEAC-1 where in the proposal was deferred for following reason,

" During deliberations it was observed that, the lay out shown by PP was not having areas marked for the adequate storage of raw materials and finished products. 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, Raw Material and Finished product storage areas, 33% green belt with its dimensions, rain water harvesting pit/tank locations with dimensions, storm water drain lines, along with area statement showing calculations of each area and cross sections of storm water drain and rain water harvesting pits etc. "

Now PP submitted revised layout plan.

DECISION OF SEAC

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018	Page 87 of 109	 Dr. Umakant Dangat (Chairman SEAC-I)
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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 carry out Public Consultation as per procedure stipulated in the EIA Notification, 2006 along with implementation plan of the issues raised during Public Consultation.

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

PP has obtained earlier EC vide No. EC-2009/CR-134/TC-2 dated 09.10.2009; PP to submit certified copy of compliance of earlier EC from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017

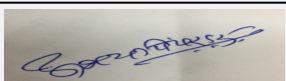
Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to explore possibility to recover waste heat by way of process re-engineering and include the same in EIA report.
- 3) PP to carry out risk assessment and submit disaster management plan.
- 4) PP to submit structural stability certificate of existing structures with respect to the accommodation of proposed expansion activities.
- 5) PP to provide new and renewable energy for illumination of office buildings , street lights, parking areas and maintain the same regularly.
- 6) PP to include slag management and disposal plan in the EIA report.
- 7) PP to include water and carbon foot print monitoring in the Environment Management Plan.

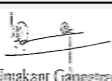
FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 88
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for PROPOSED EXPANSION OF THE EXISTING UNIT TO PRODUCE MILD STEEL (INGOTS) & M.S. ROLLED BARS

Is a Violation Case: No

1.Name of Project	SHRI KARVEER NIVASINI MAHALAXMI ISPAT PVT. LTD.
2.Type of institution	Private
3.Name of Project Proponent	Jitendra Pukhraj Gandhi
4.Name of Consultant	Green Circle Inc.
5.Type of project	METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)
6.New project/expansion in existing project/modernization/diversification in existing project	PROPOSED EXPANSION OF THE EXISTING UNIT TO PRODUCE MILD STEEL INGOTS AND BARS/ SECTIONS .
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	ENVIRONMENTAL CLEARANCE IS OBTAINED VIDE NO. SEAC-2010/CR-463/TC-2
8.Location of the project	Plot No. A -6, A7/2, MIDC Gokul Shirgaon, Kolhapur
9.Taluka	KARVEER
10.Village	GOKULSHIRGAON
Correspondence Name:	SHRI KARVEER NIVASINI MAHALAXMI ISPAT PVT. LTD.
Room Number:	PLOT NO. A-6, A-7/2
Floor:	NA
Building Name:	NA
Road/Street Name:	MIDC GOKUL SHIRGAON
Locality:	MIDC GOKUL SHIRGAON
City:	MIDC GOKUL SHIRGAON
11.Area of the project	OTHER -MIDC GOKUL SHIRGAON
12.IOD/IOA/Concession/Plan Approval Number	MIDC GOKUL SHIRGAON IOD/IOA/Concession/Plan Approval Number: No. TB/G.S./A-7/2/D-17615/of 2013-MIDC Approved Built-up Area: 8631.11
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	No. TB/G.S./A-7/2/D-17615/of 2013-MIDC
15.Total Plot Area (sq. m.)	Old (199783 + New 6712) Total = 26495 SQ.MTRS
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 0.32
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 8631.11
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: 14-10-2013
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	229600000


22.Number of buildings & its configuration



Abhay Pimparkar (Secretary SEAC-I)


SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 89 of 109




Dr. Umakant Dangat (Chairman SEAC-I)

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Not applicable	Not applicable	Not applicable	
2	Not applicable	Not applicable	Not applicable	
23.Number of tenants and shops	Not applicable			
24.Number of expected residents / users	Not applicable			
25.Tenant density per hectare	Not applicable			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	5 KM			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Available 6 mtr road			
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	M.S. CASTINGS (INGOTS)	2500	3000	5500
2	M.S. ROLLED BARS	4000	1200	5200
32.Total Water Requirement				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018


Page 90 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Dry season:	Source of water	MIDC
	Fresh water (CMD):	-
	Recycled water - Flushing (CMD):	-
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	222
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	-
Wet season:	Source of water	MIDC
	Fresh water (CMD):	-
	Recycled water - Flushing (CMD):	-
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	222
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	-
Details of Swimming pool (If any)	Not applicable	


33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	20	12	32	10	6	16	10	2	12
Cooling tower & thermopack	50	120	170	0.0	0.0	0.0	0	0	0
Gardening	16	4	20	16	4	20	0	0	0



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 91 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	35
	Size and no of RWH tank(s) and Quantity:	1 M3 & 2 NOS. OF RAIN WATER HARVESTING TANKS
	Location of the RWH tank(s):	EAST SIDE AND WEST SIDE OF PLOT
	Quantity of recharge pits:	2
	Size of recharge pits :	1MX1MX1M TWO NOS. OF RECHARGE PITS PROPOSED
	Budgetary allocation (Capital cost) :	RS. 3 LAKHS
	Budgetary allocation (O & M cost) :	RS. 15000 PER ANNUM
	Details of UGT tanks if any :	NA
35.Storm water drainage	Natural water drainage pattern:	MIDC HAS PROVIDED DRAINAGE LINE FOR NATURAL WATER DRAINAGE
	Quantity of storm water:	30 M3
	Size of SWD:	800 MM
Sewage and Waste water	Sewage generation in KLD:	1.5
	STP technology:	SEPTIC TANK PROPOSED
	Capacity of STP (CMD):	1 NO. & 2 CMD
	Location & area of the STP:	NORTH SIDE
	Budgetary allocation (Capital cost):	RS. 5.5 LAKHS
	Budgetary allocation (O & M cost):	RS. 20000/- PER ANNUM
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	SLAG (IRON OXIDES)-200 MT/M, WASTE REFRACTORY- 50 MT/M, WASTE MILL SCALE- 100 MT/M
	Wet waste:	NA
	Hazardous waste:	EXISTING = 0.5 + PROPOSED USED/SPENT OIL- 1.6 KL/A Total =2.1 KL/A
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	75 KG/A
	Others if any:	NA


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 92 of 109

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

Mode of Disposal of waste:	Dry waste:	SALE/LAND FILLING
	Wet waste:	NA
	Hazardous waste:	SALE TO AUTHORIZED REPROCESSORS & RECYCLARS
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	USED AS MANURE
	Others if any:	NA
Area requirement:	Location(s):	PLOT NO. A-6, A-7/2 MIDC GOKUL SHIRGAON,KOLHAPUR
	Area for the storage of waste & other material:	100 SQ.MTR.
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	mg/ltr	0	0	30
2	NA	mg/ltr	0	0	250
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	KL/A	0.5	1.6	2.1	SALE 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	ROLLING MILL FURNACE	COAL	1	31	0.6	312
2	INDUCTION FURNACE (8 TON)	ELECTRICITY	2	20	0.4	45
3	INDUCTION FURNACE (12 TON)	ELECTRICITY	3	31	0.6	65

40.Details of Fuel to be used

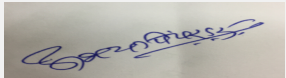

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 93 of 109


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Type of Fuel	Existing	Proposed	Total
1	COAL	300 MT/M	250 MT/M	550 MT/M
41.Source of Fuel		JAIGAD PORT		
42.Mode of Transportation of fuel to site		BY ROAD COVERED VEHICLES		
43.Green Belt Development	Total RG area :	5000 sqmtr		
	No of trees to be cut :	0		
	Number of trees to be planted :	(Existing 200 + Proposed 80 = Total = 280 No.s)		
	List of proposed native trees :	ASHOKA ,LIMB, CHINCH, VAD, MANGO ETC		
	Timeline for completion of plantation :	OCT-2019		
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	MANGIFERA INDICA	MANGO	10	NATIVE TREE WITH LOW MORTALITY RATE AND STURDY PLANT
2	AZADIRACHTA INDICA	NEEM	30	NATIVE TREE WITH LOW MORTALITY RATE AND STURDY PLANT
3	BARCHINIA CHINESIS	CHINCH	10	NATIVE TREE WITH LOW MORTALITY RATE AND STURDY PLANT
4	SARACA ASOCA	ASHOKA	150	NATIVE TREE WITH LOW MORTALITY RATE AND STURDY PLANT
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	NA	NA	NA	
47.Energy				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 94 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	9500 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	13375 KVA
	During Operation phase (Demand load):	9500 KVA
	Transformer:	EXISTING 5000 + PROPOSED 3500 = TOTAL 8500 KVA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

PROPOSED TO USE ENERGY EFFICIENT EQUIPMENT'S WITH STAR RATING TO SAVE ENERGY. ALSO PROPOSED TO USE LED FOR ENERGY SAVING.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED BULB FOR ENERGY SAVING.	25

50. Details of pollution control Systems


Source	Existing pollution control system	Proposed to be installed
ROLLING MILL FURNACE	DUST COLLECTOR WITH SUFFICIENT HEIGHT OF STACK PROVIDED	-
INDUCTION FURNACE (8 TON)	FUME EXTRACTION SYSTEM FOLLOWED BY DUST COLLECTOR PROVIDED	-
INDUCTION FURNACE (12 TON)	-	FUME EXTRACTION SYSTEM FOLLOWED BY WET SCRUBBER PROPOSED
STACK ATTACHED	COAL FIRED FURNACE	-

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	RS. 7 LAC
	O & M cost:	RS.0.7 LAC

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	0


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 95 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	ROLLING MILL FURNACE	DUST COLLECTOR	@ RS. 15 LAKHS	@ RS. 1.5 LAKHS
2	INDUCTION FURNACE (8 TON)	FUME EXTRACTION SYSTEM	@ RS. 25 LAKHS	@ RS. 1.5 LAKHS
3	INDUCTION FURNACE (12 TON)	FUME EXTRACTION SYSTEM	@ RS. 50 LAKHS	@ RS. 2.5 LAKHS
4	STACK ATTACHED	COAL FIRED FURNACE	@ RS. 15 LAKHS	@ RS. 1.5 LAKHS

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


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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	1
	Area per car:	4 SQ.MTR.
	Area per car:	4 SQ.MTR.
	Number of 2-Wheelers as approved by competent authority:	20
	Number of 4-Wheelers as approved by competent authority:	4
	Public Transport:	NA
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	NA


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 96 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	3(a)
	Court cases pending if any	NA
	Other Relevant Informations	APPLIED FOR PRIOR ENVIRONMENTAL CLEARANCE FOR EXPANSION OF STEEL PRODUCTS M.S. CASTINGS (INGOTS) - 4000 MT/M & M.S. ROLLED BARS- 2500 MT/M . PROPOSED .
	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

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018	Page 97 of 109	 Dr. Umakant Dangat (Chairman SEAC-I)
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PP applied for prior Environment Clearance under category 3(a)B1 for obtaining ToR.

The proposal was considered in the 154th meeting of SEAC - 1 held on 27th August, 2018 wherein the proposal was deferred for following reason,

"

During deliberations it was observed that, MPCB has issued show casue notice to the PP for refusal of Consent to Operate for expansion for the violation of Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981 on 07.06.2018.

In response to the above notice, PP has replied on 09.06.2018 and admitted that, they have initiated expansion activities in phased manner/stages as per the general practice/norms to match marketing and will accordingly become operational in stages with strict adherence to the parameters laid down in EC and C2E."

During discussion , PP was not able to explain what activities are initiated for expansion without obtaining prior Environment Clearance.

In view of above PP to submit detailed explanation & clarification whether there is any violation of EIA Notification, 2006. PP also to submit letter from the MPCB about final decision on the show cause notice dated 07.06.2018.

Hence, deferred."

Now PP submitted written presentation on the above observations vide letter No. M/98/18-19 dated 27.09.2018 to the committee for further decision.

DECISION OF SEAC


PP remained absent.

Hence Deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

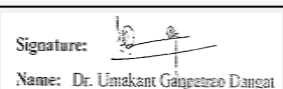
SEAC-I decided to defer the proposal. Kindly find SEAC decision above.



**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 98
of 109**



**Dr. Umakant Dangat
(Chairman SEAC-I)**

157th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th Day -1 Meeting Date November 2, 2018

Subject: Environment Clearance for Proposed R&D Laboratory center

Is a Violation Case: No

1.Name of Project	Proposed R&D Laboratory center by ELANTAS Beck India Ltd (R & D Centre).
2.Type of institution	Private
3.Name of Project Proponent	ELANTAS Beck India Ltd (R & D Centre).
4.Name of Consultant	MITCON Consultancy & Engineering Services Ltd.
5.Type of project	Other Research & Development Laboratory
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	CTS No.6019, 6020/2 & 6020/3, S.No. 146C, 146D, 147/2, 147/3, 155B/1 Mumbai-Pune Road
9.Taluka	Haveli
10.Village	Pimpri
Correspondence Name:	Dr. Vinayak Bhanu
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	CTS No.6019, 6020/2 & 6020/3, S.No. 146C, 146D, 147/2, 147/3, 155B/1 Mumbai-Pune Road
Locality:	Pimpri
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	6481.70 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.): 3003.03
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	194247000

22.Number of buildings & its configuration


Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
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Abhay Pimparkar (Secretary SEAC-I)


SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 99 of 109




Dr. Umakant Dangat (Chairman SEAC-I)

1	Not applicable	Not applicable	Not applicable	
23.Number of tenants and shops	NA			
24.Number of expected residents / users	Not applicable			
25.Tenant density per hectare	Not applicable			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	NA			
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)	Not applicable			
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	No any product manufacturing involve, Research Process mainly consists of polymerization, poly-condensation and cold mixing /blending. Reaction temperature varies between 50°C to 250°C and the reactions are carried out under ambient pressure and under blanket of inert gases.	00	00	0
32.Total Water Requirement				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018


Page 100 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Dry season:	Source of water	Not applicable
	Fresh water (CMD):	10
	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):	10
	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)	NA	


33.Details of Total water consumed

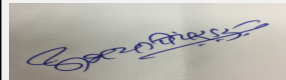

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Fresh water requirement	0	10	10	00	00	00	0	06	6
Industrial Process	00	01	1	0	0	0	0	0.5	0.5
Domestic	00	07	0	0	0	0	0	5.5	5.5
Gardening	00	02	0	0	0	0	0	0	0


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 101
of 109**

Signature: 
**Name: Dr. Umakant Dangat
(Dr. Umakant Dangat
Chairman SEAC-I)**

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	NA	
	Size and no of RWH tank(s) and Quantity:	NA	
	Location of the RWH tank(s):	NA	
	Quantity of recharge pits:	1	
	Size of recharge pits :	3 mtr (L) x 3 mtr (W) x 1mtr(D)	
	Budgetary allocation (Capital cost) :	5 lakhs	
	Budgetary allocation (O & M cost) :	1 lakhs	
	Details of UGT tanks if any :	NA	
35.Storm water drainage	Natural water drainage pattern:	Overflow/surplus water from the recharge pit will be discharged to storm water drainage	
	Quantity of storm water:	NA	
	Size of SWD:	NA	
Sewage and Waste water	Sewage generation in KLD:	NA	
	STP technology:	NA	
	Capacity of STP (CMD):	0	
	Location & area of the STP:	In the premises	
	Budgetary allocation (Capital cost):	NA	
	Budgetary allocation (O & M cost):	NA	
36.Solid waste Management			
Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA	
	Disposal of the construction waste debris:	NA	
Waste generation in the operation Phase:	Dry waste:	15 MTA	
	Wet waste:	NA	
	Hazardous waste:	Used /spent oil,Spent solvent,Distillation residue,Wastes and residue,Wastes/residues ,Sludge from treatment of waste water,Discarded containers / barrels / liner, Chemical sludge	
	Biomedical waste (If applicable):	Nil	
	STP Sludge (Dry sludge):	Nil	
	Others if any:	Nil	
 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018	Page 102 of 109	Signature:  Name: Dr. Umakant Dangat Dr. Umakant Dangat (Chairman SEAC-I)

Mode of Disposal of waste:	Dry waste:	Papers & Card boards, Plastic & HDPE, Woods & pallets etc. will be sale
	Wet waste:	NA
	Hazardous waste:	Sent to CHWTSDF
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	NA
	Others if any:	Not Application
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA


37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	mg/l	5 - 8	5.5 - 9.5	5.5-9.0
2	Total Suspended Solids	mg/l	150-250	<100	100
3	Total Dissolved Solids	mg/l	450-550	<2100	2100
4	Biological Oxygen Demand	mg/l	200-400	<100	100
5	Chemical Oxygen Demand	mg/l	700-1000	<250	250
6	Oil & Grease	mg/l	10-25	<10	10

Amount of effluent generation (CMD):	2
Capacity of the ETP:	5
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	0
Membership of CETP (if require):	0
Note on ETP technology to be used	The effluent steams of Research Laboratories are collected in effluent collection tank cum settling tank through oil / solvent trap. Settleable solids are settled by gravity then the effluent is collected in common collection cum settling. This effluent will pump into collection tank for equalization cum neutralization. Chemical sludge from settling tank is disposed of to CHWTSDF. Effluent after neutralization and equalization is charged into aeration tank / Lagoon. The aeration tank is operate
Disposal of the ETP sludge	Disposed of to CHWTSDF


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used /spent oil	5.1	MT/A	0	1	1	Authorized Re-processor
2	Spent solvent	20.2	MT/A	0	2	2	Authorized Re-processor


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 103 of 109

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

3	Distillation residue	20.3	MT/A	0	1	1	Sent to CHWTSDF
4	Wastes and residue	21.1	MT/A	0	2	2	Sent to CHWTSDF
5	Wastes/residues (not made with vegetable or animal mate)	23.1	MT/A	0	2	2	Sent to CHWTSDF
6	Sludge from treatment of waste water	33.2	MT/A	0	2	2	Sent to CHWTSDF
7	Discarded containers / barrels / liner	33.3	no./A	0	2500	2500	Authorized Re-processor
8	Chemical sludge from waste water treatment	34.3	MT/A	0	2	2	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	1	25 lit/hr	1	05	0.15	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	25 L/hr	25 L/hr

41.Source of Fuel Authorized Vendors


42.Mode of Transportation of fuel to site Road

43.Green Belt Development	Total RG area :	2463.046 sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	250
	List of proposed native trees :	Son chafa , Royal Palm, Suru, Neem, etc.
	Timeline for completion of plantation :	1-2 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	Son chafa	Magnolia champaca	30	Beautification, Medicinal Value,
2	Royal Palm	Roystonea regia	30	Beautification
3	Suru	Casuarina equisetifolia	15	Beautification
4	Neem	Azadirachta indica	25	Pollution control , Medicinal Value
5	Tamhan	Lagerstroemia speciosa	25	Beautification
6	Kusar/ Ran mogra	Jasminum Malabaricum	30	Beautification
7	Chitrak	Plumbago auriculata	30	Beautification, Medicinal Value,
8	Putranjiva	Putranjiva roxburghii	25	Native species, Medicinal Value
9	Kunti	Murraya paniculata	30	Beautification, Medicinal Value

45.Total quantity of plants on ground


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 104 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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	0	0

47.Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	687 KW
	During Operation phase (Demand load):	258 KVA
	Transformer:	NA
	DG set as Power back-up during operation phase:	320 KVA
	Fuel used:	HSD
Details of high tension line passing through the plot if any:	NA	

48.Energy saving by non-conventional method:

Solar plant is 250 KWp supply electricity generated to corporate office & new R&D building.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	0

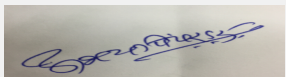
50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent	NA	ETP
Solid waste	NA	Sent to CHWTSDF
DG set	Not applicable	DG set as per CPCB standards

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	166.97 lakhs
	O & M cost:	3-5 lakhs


51.Environmental Management plan Budgetary Allocation**a) Construction phase (with Break-up):**

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018

Page 105
of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

1	Air and Noise Environment	Water For Dust Suppression, Air & Noise monitoring	0.50
2	Water Environment	Tanker water for construction Water monitoring	0.50
3	Land Environment	Site Sanitation Gardening	1
4	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Personal protective equipment	1.75

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	NA	2.5
2	Water	RWH	5	1
3	effluent	ETP	7	2
4	Energy	Solar PV Cells	166.79	5
5	Land Environment	Gardening	10	2
6	Solid waste	Solid waste management E-waste management Top soil management	5	1

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


Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	0	0	0	NA	NA

52.Any Other Information

No Information Available


53.Traffic Management

Nos. of the junction to the main road & design of confluence:	NA
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Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018


Page 106 of 109

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	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



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 157th Day -1 Meeting Date: November 2, 2018

Page 107 of 109



Dr. Umakant Dangat (Chairman SEAC-I)

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

The proposal was considered in the 149th meeting of SEAC-1 held on 7th April, 2018 where in following was decided,

PP obtained Consent from Maharashtra Pollution Control Board dated 14.12.2017 for manufacturing of (i) Insulation - wire Enamel Resin - 4000 Kg/A (ii) Development Product filled compound using Epoxy Resin - 5000 Kg/A (iii) Coating and Sealants - varnish or water based paint and hardner user in Varnish and Compounds - 4000 Kg/A hence, MPCB asked PP to obtain Environmental Clearance.

During deliberations with PP and their accredited consultant, it is informed that there will be only R&D activity on the proposed site and no manufacturing will be carried out. The products obtained out of R&D will be disposed at Common Hazardous Waste Treatment, Storage and Disposal facility at Ranjangaon.

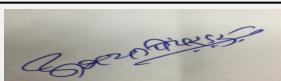
In view of above facts SEAC suggested PP to clarify following point,

i) Whether PP intends to manufacture products along with R&D activity on the proposed site? ,

If PP donot intend to carry out any manufacturing activity on the proposed site except R&D , PP may approach MPCB for necessary coorections in the Consent letter.

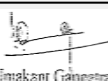
In view of above, SEAC decided to defer the proposal till clarification from PP submitted to the SEAC.

DECISION OF SEAC


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 108
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

PP submitted an affidavit on 3rd October,2018 stating that they propose to set up R&D facility.

SEAC decided to consider the proposal in next meeting.


Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-00000000161


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 157th Day -1 Meeting Date:
November 2, 2018**

**Page 109
of 109**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**