

ENVIRONMENTAL STATEMENT FORM – V

[See rule 14]

Environmental Statement for the financial year ending with 31st March – 2016

Part – A

- i Name and address of the owner/occupier of the industry operation or process. : Shri Dr. Meda Venkataiah
Executive Director
MSPL Limited,
Unit: Pellet Plant, Halavarthi Village
Koppal [Tq] & [Dist].
- ii Industry category Primary -----(STC code) Secondary ----- (SIC code). : Red
- iii Production capacity : 1.2 MTPA
- iv Year of Establishment : 16.08.2010
- v Date of last environmental statement submitted : 05/09/20

Part – B

Water and Raw Material Consumption:

i Water Consumption in m³/day:

Process : 330

Cooling : 278

Domestic : 21

Name of Products	Process water consumption per unit of products:	
	During the previous financial year (2014-15)	During the current financial year (2015-16)
Iron Ore Pellets	0.142 m3	0.119 m3

ii Raw material consumption in m³/day:

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (2014-15)	During the current financial year (2015-16)
Iron Ore Fines	Iron Ore Pellets	1.09 mts	1.07
Bentonite		6.49 kgs	8.47
Coal		52.50 kgs.	49.51

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name all the raw materials used.

Part – C

Pollution discharged to environment / unit of output: (Parameters as specified in the consent issued)

Please refer annexure: I & II

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants discharged (mass / volume)	Percentage of variation from prescribed standards with reasons
(a) Water
(b) Air

Part - D

HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management and Handling Rules, 1985)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year (2014-15)	During the current financial year (2015-16)
1. From Process	1.0 MT	4.8 MT
2. From Pollution Control Facilities	-	-

Part - E

SOLID WASTES

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process	N.A	N.A
2. From Pollution Control Facilities	N.A	N.A
3. Quantity recycled or re-utilized within the unit	N.A	N.A

PART - F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- 1) Used Oil (Hazardous Waste) for the quantity of 7560 litres disposed to CPCB authorized re-processor M/s Amol oils, Jalagaon Maharashtra. Copy of the manifestation is enclosed herewith. (Annexure-III)
- 2) There is no soild waste generation in our facility.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- 1) Rain Water Harvesting System.
- 2) By adopting Energy Efficient Motors to conserve energy & benefit the environment on global scale.

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- 1) Air Pollution Control Equipments Installed (Plant De - dusting, Bagfilters Etc)
- 2) Water Pollution Control System(Soak pit,Septic Tanks are provided , planne for STP)
- 3) Green Belt development (15.00 Acres Plantation has been done)
- 4) Noise Pollution Control (For DG Sets Accoustic Enclosure Provided)

PART - I

Any other particulars for improving the quality of the environment.

- 1) Plantation OF 6000 Saplings in the plaqnt.
- 2) Minimizing the usage of water in industrial process.
- 3) Provided 1000 saplings to KSPCB office Koppal for plantation in public places.

K. Krishna Moorthy
28/9/16
V. Krishna Moorthy
Vice President - Pellet Plant
o/c
[Signature]

ANNEXURE - I

SUMMARY OF STACK EMISSION MONITORING FOR YEAR 2015-16 – MSPL Plant

Sl. No.	Stack ID	Parameters	Values
1	Traveling grate of P.P.	SPM mg/Nm ³	43.36
2	Plant dedusting system		43.18
3	Bentonite grinding unit		42.00
4	chimney with BF at prop.building dust silo & bentonite silo & additive silo.		42.36
5	Stack with bag filter at PCI Mill		41.91
6	Traveling grate of P.P.	Sox mg/Nm ³	46.06
7	Plant dedusting system		BDL
8	Bentonite grinding unit		BDL
9	chimney with BF at prop.building dust silo & bentonite silo & additive silo.		BDL
10	Stack with bag filter at PCI Mill		BDL
11	Traveling grate of P.P.	Nox mg/Nm ³	11.71
12	Plant dedusting system		BDL
13	Bentonite grinding unit		BDL
14	chimney with BF at prop.building dust silo & bentonite silo & additive silo.		BDL
15	Stack with bag filter at PCI Mill		BDL

The above value are average of year 2015-16 and the testing is done by M/S Premier Lab Hospet.

ANNEXURE - II

SUMMARY OF A A Q MONITORING FOR THE YEAR 2015-16 – MSPL Pellet Plant

Sl. No.	Location	Parameters	Standards	Average
1	Halavarthi Village	PM 10 $\mu\text{g}/\text{m}^3$	100	52.40
2		PM 2.5 $\mu\text{g}/\text{m}^3$	60	22.64
3		Sox mg/Nm^3	80	22.06
4		Nox mg/Nm^3	80	13.31
5		CO mg/m^3	4	0.30
6	Near OHC	PM 10 $\mu\text{g}/\text{m}^3$	100	53.67
7		PM 2.5 $\mu\text{g}/\text{m}^3$	60	25.67
8		Sox mg/Nm^3	80	19.38
9		Nox mg/Nm^3	80	12.56
10		CO mg/m^3	4	0.30
11	Near Plant Fence Behind IOGS	PM 10 $\mu\text{g}/\text{m}^3$	100	54.00
12		PM 2.5 $\mu\text{g}/\text{m}^3$	60	25.67
13		Sox mg/Nm^3	80	18.87
14		Nox mg/Nm^3	80	13.72
15		CO mg/m^3	4	0.23

The above value are average of year 2015-16 and the testing is done by M/S Premier Lab Hospet.

ANNEXURE - III

SUMMARY OF NOISE LEVEL MONITORING FOR THE YEAR 2015-16 – MSPL Pellet Plant

Sl. No.	Location	Unit	Standard	Leq.	Average
1	Ball Mill (+6M Platform)	dB(A)	80 dB(A)	Max.	72.18
				Min.	62.36
				Leq.	67.36
2	Filtration (+12M Platform)			Max.	65.64
				Min.	57.45
				Leq.	62.27
3	Compressed Air Station			Max.	66.82
				Min.	58.55
				Leq.	63.36
4	Bentonite Grinding Mill			Max.	63.00
				Min.	56.27
		Leq.	60.64		
5	Main ESP Fan	Max.	66.00		
		Min.	59.27		
		Leq.	63.09		
6	UD/HR Fan	Max.	70.91		
		Min.	60.45		
		Leq.	65.36		
7	Travelling Gate (+10M)	Max.	67.09		
		Min.	57.45		
		Leq.	64.09		
8	Pump House	Max.	68.91		
		Min.	59.45		
		Leq.	64.18		
9	Annular Cooler Fan / Blower	Max.	64.18		
		Min.	57.27		
		Leq.	60.27		
10	Nitrogen Plant	Max.	66.73		
		Min.	55.27		
		Leq.	63.18		
11	PCI Mill	Max.	68.73		
		Min.	57.55		
		Leq.	62.55		

The above value are average of year 2015-16 and the testing is done by M/S Premier Lab Hospet.

ANNEXURE - IV

SUMMARY BOREWELL WATER SAMPLE ANALYSIS FOR THE YEAR 2015-16 – MSPL Pellet Plant

Location : Gayathri Borewell

Sl. No.	Parameters	Unit	Standards		Average
			DL	PL	
1	pH	-	6.5-8.5	No Relaxation	16.79
2	Turbidity	NTU	1	5	5.36
3	Colour	Co Pt	5	15	Colourless
4	Conductivity	µmhos	-	-	2015.64
5	Total Dissolved Solids	mg/l	500	2000	1408.73
6	Total Hardness as CaCO ₃	mg/l	200	600	644.36
7	Chlorides as Cl	mg/l	250	1000	306.73
8	Total Alkalinity as CaCO ₃	mg/l	200	600	413.55
9	Sulphates as SO ₄	mg/l	200	400	210.09
10	Calcium as Ca	mg/l	75	200	135.00
11	Magnesium as Mg	mg/l	30	100	74.36
12	Iron as Fe	mg/l	0.3	No Relaxation	0.33
13	Fluorides as F	mg/l	1	1.5	2.58
14	Nitrates as NO ₃	mg/l	45	No Relaxation	12.31
15	Total Chromium as Cr	mg/l	0.05	No Relaxation	BDL

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