

HEG LTD. MANDIDEEP		LIST OF SIGNIFICANT ASPECTS AND IMPACTS				F-EMS-14	
						Date :	5/6/2010
S.No.	Section	Activity	Environmental Aspects	Environmental Impact	Operating Condition	Significance Rating	Ref. OCP/EMP
1	BM	Unloading of CPC in hopper	Dust Emission	Air pollution	Normal	21	P-OCP-11
2	BM & All Dept.	Storage & Disposal of scrap battery	Spillage of Acid on Ground	Land & Water Pollution	Abnormal	21	P-EMS-05
3	BAKING	Baking of product Conv. Baking	Smoke Emission from Stack.	Air Pollution	Normal	29	P-OCP-03
4	BAKING	Baking of product at RH	Smoke Emission from Stack. (Electrostatic Tar Precipitator)	Air Pollution	Normal	29	P-OCP-10
5	BAKING	Manual Scrapping at Baking & RH	Spillage of Met Coke grains & Dust Emission at work place.	Air Pollution	Normal	27	P-OCP-08
6	BAKING	Manual Screening of Packing Grain.	Dust Emission at work place.	Air Pollution	Normal	27	P-OCP-07
7	BAKING	Operation of Scrapping Machine at Baking & RH.	Dust Emission from Stack	Air Pollution	Abnormal	25	P-OCP-14
8	BAKING	Machining of Baked Electrode from L-70 & BECO m/c.	Dust Emission from Stack	Air Pollution	Abnormal	25	P-OCP-20
9	ER	Dressing	Used Cotton/Pathological Discharge	Trivial Bacteria and exposure in environment	Abnormal	27	P-OCP-18
10	ER	Injections	Needles	Land Pollution	Abnormal	27	P-OCP-18
11	ETP	Primary & Secondary Treatment of effluent water	Sludge	Purification of water by removing flocculated sludge from effluent water.	Abnormal	23	P-OCP-04
12	GRP	Graphitising the Baked Electrode in LWG, Acheson & GF Furnace.	Gas & Fume Emission viz. CO, CO <sub>2</sub> , SO <sub>2</sub>	Air Pollution	Normal	21	P-OCP-05
13	GRP	Screening / Grain treatment at IGT 1,5 & old GT.	Metcoke Dust, emission through stack	Air Pollution	Normal	25	P-OCP-06
14	GRP	Consumption of Resource in Graphitisation Process	Consumption of Power, Met coke, Hard board, Water.	Resource Depletion.	Normal	23	P-GRP-01,02 & S-GRP-01,02

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15	RMS/GEP	CPC withdrawl, handling, crushing, screening & grinding.	Emission of SPM. (Dust)	Air Pollution through Stack.	Normal	23	P-OCP-19
16	RMS/GEP	Unloading, Opening of Pitch Drums / Bags & Breaking of Pitch & filling in Hopper through Grab Bkt.	Emission of Pitch Dust.	Air Pollution at work place.	Normal	23	P-OCP-02
17	RMS/GEP	Weighing, Mixing & Conditioning of CPC, Green Scrap, Iron Oxide & Staric Acid.	Emission of SPM at Weighing, Mixer & Conditioner Floor.	Air Pollution at work place.	Normal	23	P-OCP-13
18	RMS/GEP	Recirculation of flying shear pit water into coling bath.	Oil Contaminated Water in cooling bath, storage tank & drain line.	Water Pollution	Normal	23	P-OCP-04
19	RMS/GEP	Grinding of CPC at R-Mill	Emission of SPM. (Dust)	Air Pollution through Stack.	Normal	23	P-OCP-19
20	RMS/GEP	Recirculation of flying shear pit water into coling bath.	Oil Contaminated Water in cooling bath, storage tank & drain line.	Water Pollution	Normal	23	P-OCP-04
21	GEP & IMP.	Operation of HOB.	Emission of SPM. (Dust)	Air Pollution through Stack.	Normal	23	P-OCP-33
22	PFS	MACHINING OF GRAPHITE ELECTRODES & NIPPLES	Emission of Dust through Stack	AIR POLLUTION	Normal	27	P-OCP-25
23	PFS	Bagging of Graphite Fines.	Emission of Dust	Emission of Dust	Normal	21	P-OCP-26
24	S&D	Fumigation of Containers	Emission of Fumes.	Air Pollution Ozone layer depletion	Normal	23	P-OCP-15
25	TK	Rebaking of Impregnated product in Tunnel kiln through HAG.	Fume Emission	Air Pollution	Abnormal	21	P-OCP-32
26	PE-M	OPERATION OF STEAM BOILERS IN UTILITY	STACK EMISSION	AIR POLLUTION	Abnormal	23	P-OCP-31
<b>SIGNIFICANT ASPECTS UNDER DESIGN STAGE.</b>							
1	Design Office	Installation of Tunnel Kiln # 3	Fumes Emission Through Stack.	Air Pollution	Normal	21	P-OCP-32
2	Design Office	Installation of 5 Nos. 240 K Amps. Graphite LWG Furnace in Hall No. 6	Gas & Fume Emission viz. CO, CO2, SO2	Air Pollution	Normal	21	P-OCP-05

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1	All Dept.	Cleaning work	Oil soaked cotton	Pollution of land	Abnormal	Legal (Haz.Waste rule)	P-OCP-27
2	BM & All Dept.	Painting	Disposal of empty paint drums.	LAND POLLUTION	Abnormal	Legal (Haz.Waste rule)	P-OCP-30
3	BM & All Dept.	Storage & Disposal of used waste oil	Spillage of oil on Ground	Land & Water Pollution	Abnormal	Legal (Haz.Waste rule)	P-OCP-23
4	ETP	Pumping of effluent water from sumps / tanks to ETP	Waste water	Land/Water pollution due to over flow.	Abnormal	Legal (Water act 1974)	P-OCP-04
5	IMP	Vacuuming in A/C.	Pitch fumes emission through Incinerator stack.	Air Pollution	Normal	Legal (Air act 1981)	P-OCP-34
6	IMP	Preheating of Baked product in preheaters through hot air generator at FI	Emission through Stack	Air Pollution	Abnormal	Legal (Air act 1981)	P-EMP-27
7	IMP	Preheating of Baked product in preheaters through hot air generator at NCI	Emission through Stack	Air Pollution	Abnormal	Legal (Air act 1981)	P-EMP-28

**REMARK:**

MANAGEMENT HAS DECIDED THAT ASPECTS HAVING SIGNIFICANCE RATING 20 AND ABOVE WILL BE CONSIDRED AS SIGNIFICANT ASPECTS..