

EXECUTIVE SUMMARY
OF
EIA & EMP REPORT
OF
CHIKLA MANGANESE MINING LEASE (70.831 Ha)
AT

Village: Chikla,
Tehsil: Tumsar,
District: Bhandara,
State: Maharashtra,
(Area- 70.831 Ha)

Khasra No: Government Land Gut No: p.o.595/2, 610/2, 611/2, 613/2, p.o.614, p.o.685, p.o.694, 602, 603, 604, 647, 648, 649, 650, 651, p.o.653, p.o.659, p.o.658, 661, p.o.662, p.o.657, 660

Private Land Gut No: p.o.595/1, p.o.596, 598,599, 600, p.o.607, 608, 609, 610/1, 611/1, 612, 613/1, 641, 643/1, 643/2, 644/1, 644/2, 644/3, 644/4, 645, p.o.691, p.o.693, p.o.695, 698, 699, 434, 700, 701, 702, p.o.704, p.o.705/1, 705/2, p.o.706.

Proposed Max. Production Capacity – 2,00,000 TPA of Manganese Ore

APPLICANT

M/s Moil Limited
Moil Bhavan,
1A Katol Road, Nagpur
Maharashtra

Prepared By

Environment Consultancy:

Zenith Environment Consultancy

QCI – NABET Accredited Environment Consultant

Certificate No. - NABET/EIA/26-29/RA 0472 (Rev.01)

Validity – 13.01.2029, Noida, U.P.



1.0 INTRODUCTION

Environmental Impact Assessment (EIA) is a process, used to identify the environmental, social and economic impacts of a project prior to decision-making. It is a decision making tool, which guides the decision makers in taking appropriate decisions for proposed projects. EIA systematically examines both beneficial and adverse consequences of the proposed project and ensure that these impacts are taken into account during the project designing.

The Environmental Impact Assessment Documentation has been prepared in terms of EIA notification of the MoEF dated 14-9-2006 and its subsequent amendments thereof and the EIA Guidance Manual for Mining of Minerals (Feb, 2010) of MoEF, Govt. of India, for seeking environmental clearance for mining in the existing area of Chikla Manganese Mining Lease (70.831 Ha) measuring 70.831 hectares falling under category “B1” due to the order of Hon’ble NGT (PB), Ministry of Environment, Forest & Climate Change (MoEF &CC), Govt. of India vide Office Memorandum F.No. L 11011/175/2018-IA-II (M) dated 12-12-2018.

1.1 Location of the Project

The project is located at Gut No. Government Land Gut No: p.o.595/2, 610/2, 611/2, 613/2, p.o.614, p.o.685, p.o.694, 602, 603, 604, 647, 648, 649, 650, 651, p.o.653, p.o.659, p.o.658, 661, p.o.662, p.o.657, 660

Private Land Gut No: p.o.595/1, p.o.596, 598,599, 600, p.o.607, 608, 609, 610/1, 611/1, 612, 613/1, 641, 643/1, 643/2, 644/1, 644/2, 644/3, 644/4, 645, p.o.691, p.o.693, p.o.695, 698, 699, 434, 700, 701, 702, p.o.704, p.o.705/1, 705/2, p.o.706, Village: Chikla, Tehsil: Tumsar & District: Bhandara and State: Maharashtra over an area of 70.831 Ha

Table No. 1.1 Latitude & Longitude of Lease Area

Pillar No.	Pillar Latitude	Pillar Longitude
BP-1	21° 32' 45.914" N	79° 46' 13.207" E
BP-2	21° 32' 45.660" N	79° 46' 12.064" E
BP-3	21° 32' 51.416" N	79° 46' 8.414" E
BP-4	21° 32' 53.876" N	79° 46' 4.310" E
BP-5	21° 32' 50.622" N	79° 46' 4.089" E
BP-6	21° 32' 50.565" N	79° 46' 5.138" E
BP-7	21° 32' 49.271" N	79° 46' 6.418" E

BP-8	21° 32' 44.410" N	79° 46' 8.818" E
BP-9	21° 32' 43.332" N	79° 46' 9.144" E
BP-10	21° 32' 43.491" N	79° 46' 5.274" E
BP-11	21° 32' 43.583" N	79° 46' 3.033" E
BP-12	21° 32' 44.478" N	79° 45' 59.773" E
BP-13	21° 32' 45.105" N	79° 45' 51.741" E
BP-14	21° 32' 45.316" N	79° 45' 49.002" E
BP-15	21° 32' 45.560" N	79° 45' 45.833" E
BP-16	21° 32' 45.714" N	79° 45' 42.170" E
BP-17	21° 32' 55.392" N	79° 45' 38.317" E
BP-18	21° 32' 55.298" N	79° 45' 43.101" E
BP-19	21° 32' 58.259" N	79° 45' 43.264" E
BP-20	21° 32' 58.327" N	79° 45' 43.650" E
BP-21	21° 32' 56.670" N	79° 45' 44.781" E
BP-22	21° 32' 58.871" N	79° 45' 45.729" E
BP-23	21° 32' 57.011" N	79° 45' 57.719" E
BP-24	21° 33' 1.676" N	79° 45' 57.936" E
BP-25	21° 33' 1.549" N	79° 46' 2.236" E
BP-26	21° 33' 3.073" N	79° 46' 2.379" E
BP-27	21° 33' 2.964" N	79° 46' 2.739" E
BP-28	21° 33' 1.964" N	79° 46' 3.704" E
BP-29	21° 32' 55.857" N	79° 46' 0.444" E
BP-30	21° 32' 54.489" N	79° 46' 0.529" E
BP-31	21° 32' 54.065" N	79° 46' 1.351" E
BP-32	21° 32' 54.957" N	79° 46' 2.153" E
BP-33	21° 32' 55.073" N	79° 46' 8.535" E
BP-34	21° 32' 57.687" N	79° 46' 12.771" E
BP-35	21° 32' 57.078" N	79° 46' 13.716" E
BP-36	21° 32' 56.433" N	79° 46' 13.173" E
BP-37	21° 32' 39.374" N	79° 46' 6.924" E
BP-38	21° 32' 36.886" N	79° 46' 3.024" E
BP-39	21° 32' 36.281" N	79° 45' 54.338" E
BP-40	21° 32' 35.488" N	79° 45' 54.161" E
BP-41	21° 32' 34.788" N	79° 45' 47.876" E
BP-42	21° 32' 35.544" N	79° 45' 47.723" E
BP-43	21° 32' 35.571" N	79° 45' 32.524" E
BP-44	21° 32' 27.944" N	79° 45' 33.991" E
BP-45	21° 32' 28.142" N	79° 45' 33.274" E
BP-46	21° 32' 26.783" N	79° 45' 38.394" E

BP-47	21° 32' 25.880" N	79° 45' 38.062" E
BP-48	21° 32' 21.870" N	79° 45' 37.733" E
BP-49	21° 32' 22.468" N	79° 45' 32.970" E
BP-50	21° 32' 23.718" N	79° 45' 33.034" E
BP-51	21° 32' 28.649" N	79° 45' 30.495" E
BP-52	21° 32' 29.207" N	79° 45' 27.432" E
BP-53	21° 32' 30.920" N	79° 45' 25.028" E
BP-54	21° 32' 34.770" N	79° 45' 24.091" E
BP-55	21° 32' 38.177" N	79° 45' 23.261" E
BP-56	21° 32' 40.448" N	79° 45' 22.708" E
BP-57	21° 32' 40.337" N	79° 45' 24.422" E
BP-58	21° 32' 39.929" N	79° 45' 30.349" E
BP-59	21° 32' 39.657" N	79° 45' 34.353" E
BP-60	21° 32' 37.124" N	79° 45' 34.477" E
BP-61	21° 32' 37.273" N	79° 45' 40.542" E
BP-62	21° 32' 38.360" N	79° 45' 41.050" E
BP-63	21° 32' 39.283" N	79° 45' 41.488" E
BP-64	21° 32' 39.548" N	79° 45' 50.728" E
BP-65	21° 32' 39.275" N	79° 45' 50.745" E
BP-66	21° 32' 39.448" N	79° 45' 53.302" E
BP-67	21° 32' 46.406" N	79° 45' 33.074" E
BP-68	21° 32' 47.818" N	79° 45' 28.238" E
BP-69	21° 32' 49.131" N	79° 45' 24.950" E
BP-70	21° 32' 49.789" N	79° 45' 25.444" E
BP-71	21° 32' 50.583" N	79° 45' 25.138" E
BP-72	21° 32' 52.503" N	79° 45' 25.950" E
BP-73	21° 32' 52.990" N	79° 45' 24.945" E
BP-74	21° 32' 55.355" N	79° 45' 27.581" E
BP-75	21° 32' 57.098" N	79° 45' 27.938" E
BP-76	21° 32' 56.914" N	79° 45' 32.364" E
BP-77	21° 32' 56.310" N	79° 45' 35.036" E
BP-78	21° 32' 54.704" N	79° 45' 34.613" E
BP-79	21° 32' 50.752" N	79° 45' 34.014" E
BP-80	21° 32' 50.284" N	79° 45' 36.053" E
BP-81	21° 32' 48.607" N	79° 45' 37.343" E
BP-82	21° 32' 47.798" N	79° 45' 37.133" E
BP-83	21° 32' 48.142" N	79° 45' 33.523" E
BP-84	21° 32' 56.788" N	79° 44' 54.830" E
BP-85	21° 32' 55.290" N	79° 44' 54.034" E

BP-86	21° 32' 43.861" N	79° 44' 53.037" E
BP-87	21° 32' 46.936" N	79° 44' 42.568" E
BP-88	21° 32' 49.261" N	79° 44' 41.871" E
BP-89	21° 32' 49.367" N	79° 44' 42.081" E
BP-90	21° 32' 52.338" N	79° 44' 40.971" E
BP-91	21° 32' 52.774" N	79° 44' 43.125" E

Table No. 1.2 Salient Features of Project

Project Name	Chikla Manganese Mining Lease (70.831 Ha)
Location of mine	Village: Chikla, Tehsil: Tumsar, District: Bhandara and State: Maharashtra
Area	70.831 Ha
Gut No.	Government Land Gut No: p.o.595/2, 610/2, 611/2, 613/2, p.o.614, p.o.685, p.o.694, 602, 603, 604, 647, 648, 649, 650, 651, p.o.653, p.o.659, p.o.658, 661, p.o.662, p.o.657, 660 Private Land Gut No: p.o.595/1, p.o.596, 598,599, 600, p.o.607, 608, 609, 610/1, 611/1, 612, 613/1, 641, 643/1, 643/2, 644/1, 644/2, 644/3, 644/4, 645, p.o.691, p.o.693, p.o.695, 698, 699, 434, 700, 701, 702, p.o.704, p.o.705/1, 705/2, p.o.706 .
Minerals to be mined	Manganese Ore
Total Mineable reserves	11,83,094.98 Tonnes
Life of mine	5.9 years or say 6 years
Max. Proposed production	Proposed Maximum Production Capacity 2,00,000 TPA
Method of mining	Underground mining method by Cut & Fill method.
No of working days	305 days (as per the Mining Plan)
Water demand	Total water requirement for the project is 115 KLD, comprising 5 KLD of fresh water and 110 KLD of recycled mine water. Recycled mine water will be utilized for dust suppression, plantation, sand stowing. Fresh water requirement is limited to drinking and domestic purposes and is proposed to be sourced from groundwater. The company will obtain NOC from CGWA for abstracting ground water.
Sources of water	Fresh Water is proposed to be sourced from groundwater through authorized sources.
Man power	46 (as per the mining Plan)
Seismic zone	Zone II (Low Damage Risk Zone)
Other Provisions of Mining Plan	As per the approved mining Plan the progressive mine closer plan will be imposed

	- Occupational safety will be imposed. - Detailed Feasibility report will be imposed.
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Table 1.3: Environment Sensitivity

S.NO.	Particulars	Details
1	Nearest Railway Station	Gobarwahi railway station is about 4.20 km from point no BP-87 in SSW direction.
2	Nearest Airport/Airstrip	Suktara Domestic Airport is about 49.72 Km from point no BP-90 in NNW direction.
3	Nearest School	DAV MOIL Public School is about 1.45 km from point no BP-87 in SSW direction.
4	Nearest Hospital	Primary Health Center (PHC), Nakadongri, is About 2.70 km from point no BP-85 in NNW direction.
5	Nearest Worship Place	Shiv Mandir Chikala lies on the project site near point no BP-88.
6	Nearest Habitation	Chikhala Village is about 0.05 km from point no BP-22 in NNW direction.
7	Nearest National/State Highway/ Roads	NH-543K is about 11.95 km from Point no BP-01 in ESE direction SH-54 is about 0.60 km from point no BP-90 in WNW direction. MOIL Chikla Mines road near Point No BP-53.
5	State, National boundaries	MH-MP State Boundary is about 4.55 km from Point No. BP-26 in NNE direction.
8	Water bodies	A Pond is about 0.10 km from Point no BP-35 in ENE direction. Chikhla Reservoir is about 0.25 km from Point No BP-90 in WNW direction. A Pond near Chikla village is about 0.25 km from Point No. BP-84 in NNE direction.

		Kawalewada small Reservioris about 1.28 km from Point no BP-27 in NNE direction. Chandpur Dam is about 2.65 km from Point No BP-48 in SSE direction. Bawanthari River is about 4.55 km from Point No. BP-26 in NNE direction. Nawa talav is about 1.90 km from Point No. BP-90 in NNW direction. Bada Talav is about 8.0 km from Point No BP-90 in WSW direction.
9	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	There is no wild life sanctuaries within 10 km radius.
10	Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Musalkhapa (RF) is about 8.63 km From Point No BP-90 in NNW direction. Bwanthari (RF) is about 7.30 km From Point No BP-87 in SW direction. Chandpura North (RF) is about 3.35 km From Point no BP-38 in SW direction. Chandpura South (RF) is about 3.00 km From Point No BP-48 in SSE direction. Phulchur (RF) is about 7.48 km from Point no BP-35 in ENE direction. Kapurwihiri (RF) is about 6.98 km from Point no BP-27 in NNE direction. Garra South (RF) is about 9.30 km from Point no BP-27 in NNE direction.

Green Belt

During the proposal period about trees will be planted around the mining lease.

Table 1.4 Total Green Belt Plan

Sl. No.	Year	Green Belt location	Area Proposed to be Covered (Ha)	No. of Plants proposed	Expected Survival Rate (%)	Estimated Expenditure
1.	Year 1	Near BP 55	0.45	1125	70	3,00,000
2.	Year 2	Near BP 56	0.45	1125	70	3,00,000
3.	Year 3	Near BP 57	0.45	1125	70	3,00,000
4.	Year 4	Near BP 58	0.45	1125	70	3,00,000
5.	Year 5	Near BP 59	0.42	1050	70	3,00,000

The following characteristics should be taken into consideration while selecting plant species for green belt development and tree plantation.

- They should be fast growing and tall trees.
- They should be perennial and evergreen.
- They should have thick canopy cover.
- Plantation should be done in appropriate alternate rows around the proposed site to prevent lateral pollution dispersion.
- The trees should maintain regional ecological balance and conform to soil and hydrological conditions. Indigenous species should be preferred.

1.2 BASE LINE DATA

This section contains the description of baseline studies of the 10 Km radius of the area surrounding “Chikla Manganese Mining Lease (70.831 Ha)”. The data collected has been used to understand the existing environment scenario around the proposed mining project against which the potential impacts of the project can be assessed.

Environmental data has been collected in relation to propose mining for:-

- (a) Land
- (b) Water
- (c) Air
- (d) Biological
- (e) Noise
- (f) Socio-economic

1.3 AMBIENT AIR QUALITY

The results of AAQ are given in Annexure, the results when compared with National Ambient Air Quality Standards (NAAQS) of Central Pollution Control Board (CPCB) for "Residential, Rural and Industrial Areas" show that the average values of ambient air quality parameters are well within the stipulated limit.

Observations:

a) Suspended Particulate Matter (PM₁₀)

- i. The minimum level is **42.37 $\mu\text{g}/\text{m}^3$**
- ii. The maximum level is **76.98 $\mu\text{g}/\text{m}^3$**
- iii. The 98th percentile ranges from **66.04 – 46.91 $\mu\text{g}/\text{m}^3$**

(NAAQS Standards is 100 $\mu\text{g}/\text{m}^3$ for PM₁₀)

b) Particulate Matter (PM_{2.5})

- i. The minimum level is **24.16 $\mu\text{g}/\text{m}^3$**
- ii. The maximum level is **39.56 $\mu\text{g}/\text{m}^3$**
- iii. The 98th percentile ranges from **34.68 – 38.64 $\mu\text{g}/\text{m}^3$**

(NAAQS Standards is 60 $\mu\text{g}/\text{m}^3$ for PM 2.5)

c) Sulphur Dioxide (SO₂)

- i. The minimum level is **5.14 $\mu\text{g}/\text{m}^3$**
- ii. The maximum level is **14.56 $\mu\text{g}/\text{m}^3$**
- iii. The 98th percentile ranges from **6.25 – 14.24 $\mu\text{g}/\text{m}^3$**

(NAAQS Standards is 80 $\mu\text{g}/\text{m}^3$ for SO₂)

d) Oxides of Nitrogen (NO₂)

- i. The minimum level is **8.35 $\mu\text{g}/\text{m}^3$**
- ii. The maximum level is **21.72 $\mu\text{g}/\text{m}^3$**
- iii. The 98th percentile ranges from **10.55 – 21.70 $\mu\text{g}/\text{m}^3$**

(NAAQS Standards is 80 $\mu\text{g}/\text{m}^3$ for NO₂)

1.4 NOISE ENVIRONMENT

Day Time: -

Minimum level –46.8 dB (A)

Maximum level – 65.5 dB (A)

Night Time: -

Minimum level – 37.5 (A)

Maximum level – 56.8 dB (A)

1.5 WATER ENVIRONMENT

Observation:

Analysis of sampling Surface Water: -

- Total Coliform (MPN/100 ml)- 2.5×10^3 - 5.0×10^3 MPN/100 ml
- Faecal Coliform (MPN/100 ml)- 1.0×10^3 – 2.8×10^3 MPN/100 ml
- Biochemical Oxygen Demand: 2.1- 5.0 mg/l
- Chemical Oxygen Demand: 21.4- 30.0 mg/l.
- Dissolved Oxygen (DO): 7.10 – 7.80 mg/l
- pH ranges between 7.29– 7.64

Analysis of sampling Ground Water: -

- Total Coliform (MPN/100 ml) – Absent
- E. Coli (MPN/100 ml)- Absent
- pH varies from 7.16–7.82
- Total hardness varies from 198–289 mg/L

1.6 SOIL ANALYSIS REPORT

Physical characteristics of soil were characterized through specific parameters viz bulk density, porosity, water holding capacity, pH, electrical conductivity and texture. Soil pH plays an important role in the availability of nutrients. Soil microbial activity as well as solubility of metal ions is also dependent on pH.

Observations:

Samples collected from identified locations indicate the soil is sandy type.

- pH value ranging from 7.22 to 7.89
- Electrical conductivity (EC): 380.0 to 510.0 μ mhos/cm
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1.7 BIOLOGICAL ENVIRONMENT

The lease area as well as buffer zone area reveals no endangered and endemic species of flora and fauna in the area.

1.8 WATER REQUIREMENT

Total water requirement for the project is 115 KLD, comprising 5 KLD of fresh water and 110 KLD of recycled mine water. Recycled mine water will be utilized for dust suppression, plantation, sand stowing. Fresh water requirement is limited to drinking and domestic purposes and is proposed to be sourced from groundwater. The company will obtain NOC from CGWA for abstracting ground water.

The following table shows the water balance of the mine activity:

WATER CONSUMPTION (KLD)

Activity	Water requirement (KLD)
Dust suppression	5.0
Domestic	5.0
Plantation	5.0
Sand Stowing	100.0
Total	115.0

1.9 LAND FOR DISPOSAL OF WASTE WITH JUSTIFICATION:

Not required as the available soil will be used to develop area for plantation; weathered waste/rejects will also be used in repair and maintenance of roads.

1.10 SOCIO-ECONOMICS

The mining activity does not involve any displacement of human settlement. Public buildings, exist within the lease area but in is an underground mining project so there is no involvement of displacement. The mining operation will not disturb/ relocate any village or need resettlement. Thus no adverse impact is anticipated.

The impact of mining activity in the area is positive on the socio-economic environment of the region. Chikla Manganese Mining Lease providing employment to local population and it will be give preference to the local people whenever there is requirement of man power.

1.11 OCCUPATIONAL HAZARDS AND SAFETY

Occupational safety and health is very closely related to productivity and good employer-employee relationship. The factors of occupational health Chikla Manganese Mining Lease mainly dust and land degradation. Safety of employees during operation and maintenance etc. shall be as per Mines rules and regulations.

To avoid any adverse effect on the health of workers due to various pollutants, sufficient measures relating to safety and health will also be practiced:

- Provision of rest shelters for mine workers with amenities like drinking water etc.
- All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc.
- Training of employees for use of safety appliances and first aid in vocational training center.
- Regular maintenance and testing of all equipment as per manufacturers' guidelines.
- Periodical Medical Examination (PME) of all workers by a medical Officer
- First Aid facility is provided at the mine site.
- Close surveillance of the factors in working environment and work practices which may affect environment and worker's health.
- Working of mine as per approved mining plan and environmental plans.

1.12 ENVIRONMENTAL MANAGEMENT PLAN

The mining activities involve, excavation, loading, haulage and transportation of mineral. These activities lead to generation of air borne dust, which can cause air pollution in and around the mining lease area, if appropriate control measures are not taken. Similarly mining causes Land Degradation, Noise and Water Pollution etc. in the area.

In order to minimize impacts of mining on different environmental parameters and to keep air and water quality within prescribed limits of CPCB, a rapid Environmental Management Plan (EMP) is prepared to strictly follow it. This helps in resolving all environmental and ecological issues due to mining in the area. The environmental management plan includes all measures and safety precautions necessary for safe mining along with rehabilitation measures for mined out areas.

ANNUAL EMP COST			
S NO.	Particulars	Budget Provisions (Rs)	
		Capital	Recurring

1(a).	Water sprinkling facility with Water tanker from Third Party for outgoing and incoming transportation vehicles for haul and transportation (Three times in day) (4KLD liter capacity = 1 Tanker), Daily water requirement = 3 KLD, Total working days = 243 days, Total water consume in 243 days = 729 KLD Number of Tanker in a year = $729/4 = 182.25$ Tanker or 183 Tanker Cost = 300 Rs/Tanker	40,000	54,900
1(b).	Water requirement for domestic use from Third Party (4KLD liter capacity = 1 Tanker), Daily water requirement = 2 KLD, Total working days = 243 days, Total water consume in 243 days = $243 \times 2 = 486$ KLD Number of Tanker in a year = $486/4 = 121.5$ or say 122 Tanker Cost = 300 Rs/Tanker		36,600
2.	Maintenance of approach 1,500 m @ 300Rs. /Meter.	4,50,000	10,000
3.	Monitoring twice a year (Air, Water & Noise twice a year) (Ambient Air @ INR 19,500, Water @ INR 25,000 & Ambient Noise @ INR 7,500) for one day at the core Site & Vibration monitoring to the near habitation & near sensitivity (INR – 50,000)	Nil	1,54,000
4.	Proposed Plantation = 5,625 1. 1125 Plants will be planted near BP 55 2. 1125 Plants will be planted near BP 56 3. 1125 Plants will be planted near BP 57 4. 1125 Plants will be planted near BP 58 5. 1125 Plants will be planted near BP 59	15,00,000	20,000
5.	10 Tarpaulin Sheet for mineral Cover (Transportation of Minerals) 1 tarpaulin sheet x 500 Rs.	5,000	500
6.	Wire Fencing 777m x 200 Rs/meter (20m after leaving distance from entrance gate, exit gate).	1,55,400	20,000
Labour Welfare			
7.	Temporary rest shelter & Guard room with 5 Kw Solar panel with maintenance & battery backup solar lights.	4,50,000	40,000
8.	Two separate Bio-toilets for males and females with Maintainace.	60,000	5,000
9.	(a) Occupational health Survey with cardiovascular and pulmonary health vital parameters as prescribed by H&S 46 Labour @ 6000 Rs. = 2,76,000 Rs./twice per year @6000 x 2 x 46	5,52,000	--

	B. Medical emergency fund for the workers.	60,000	--
10.	PPES to Work (Helmet shoes, gloves, goggle etc.) , 46 labor @3000 Rs.	1,38,000	5,000
11.	First Aid Kits , Number of kits 4	600	200
12.	Fire Safety (1 nos.) , @ 50,000	50,000	2,500
Solid Waste Management			
13.	Bins 2 Nos.	500	200
Others			
14.	Vehicle Maintenance + PUC Certification	Nil	15,000
15.	Signage and Caution Board	5,000	1,000
Total EMP Cost		34,66,500	3,64,900

1.15 CONCLUSION

All possible environment aspects have been adequately assessed and necessary control measures have been formulated to meet statutory requirements. Thus implementing this project will not have any appreciable negative impacts.
