

# UMARIA UG MINE

## APPENDIX – 1

(See paragraph – 6)

### FORM – 1

(I) Basic information

S.No.	Item	Details			
1	Name of the project/s	Umaria Underground Mine			
2	S.No.in the schedule	1(a)			
3	Proposed Capacity/area/length/tonnage to be handled/command area/lease area/number or wells to be drilled.	Capacity of Project: 0.35 MTY Mine Area: 512.54 Ha Total 100 nos. of boreholes have been drilled in the block.			
4	New/Expansion/Modernization	Neither new nor expansion. Application for revalidation of existing EC granted under EIA Notification 1994; desired under MoEF&CC, GOI, Gazette Notification SO 1530(E) dated 06.04.2018. No change in existing EC Capacity of 0.35 MTPA.			
5	Existing Capacity/ Area etc.	0.35 MTY / Area : 512.540 Ha			
6	Category of Project i.e.'A' or 'B'	'A'			
7	Does it attract the general condition? If yes, please specify.	No			
8	Dose it attract the specific condition? If Yes, please specify.	No			
9	Location	Bandhavgarh & Manpur Tehsil of Umaria District. Latitude : 23 <sup>o</sup> 30'N to 23 <sup>o</sup> 33'N Longitude : 80 <sup>o</sup> 47'E to 80 <sup>o</sup> 53'E			
	Plot/ Survey/ Khasra No	Covered in Toposheet No. 64-A/14 of Survey of India. Scale- 1:50,000			
	Villages	7 villages - Bhagra, Bilarikop, Chhatan camp, Khalesar, Lalpur, Umaria Khas, Umaria Tanaja			
	Tehsil	Bandogarh & Manpur			
	District	Umaria			
	State	Madhya Pradesh			
10	Nearest railway station /airport Along with distance in kms.	Umaria Railway Station about 4.0 K.m. from mine.			
11	Nearest Town, City, District Headquarters along with distance in Kms.	Town : Umaria :2.0 Km Collectorate Umaria District: 4.0 Km			
12	Village, Panchayats, Zilla Parishad, Municipal corporation, Local body (complete postal address with	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Panchayat/ Municipal</td> <td style="width: 33%;">Village</td> <td style="width: 33%;">Contact No.</td> </tr> </table>	Panchayat/ Municipal	Village	Contact No.
Panchayat/ Municipal	Village	Contact No.			

	telephone Nos. to be given			
		Kirantal Piparia (Manpur Tehsil)	Bhagra, Bilarikop,	9340255085 9301392321
		Umaria Nagar Panchayat (Bandhavgarh Tehsil)	Chhatan camp, Khalesar, Lalpur, Umaria Khas, Umaria Tanaja	9425183859 8463837158 9306050416 9893349366 8463837158
13	Name of the applicant	S. D. Dwivedi		
14	Registered Address	Office of General Manager, Johilla Area SECL, Post- Nowrozabad, District- Umaria (Madhya Pradesh), Pin- 484555		
15	Address of correspondence			
	Name	S. D. Dwivedi		
	Designation (Owner/Partner/CEO)	General Manager, Johilla Area		
	Address	Office of General Manager, Johilla Area SECL, Post- Nowrozabad, District- Umaria (Madhya Pradesh)		
	Pin code	484555		
	E-mail	gmjhl@secl.gov.in, gmenvtsecl@gmail.com, noenvtjhl.secl@gmail.com		
	Telephone No.	07753-268277		
	Fax No.	07753-268223		
16	Details of Alternative sites examined if any . Location of these sites should be shown on a topo sheet	Coal Mining is a site specific activity. The mine is already operational.		
17	Interlinked Projects	No		
18	Whether separate application of interlinked project has been submitted?	Not Applicable		
19	If yes, date of submission	Not Applicable		
20	It no. reason	Not Applicable		
21	Whether the proposal involves approval /clearance under if yes, details of same and their status to be given a). Forest conservation Act 1980 b). Wildlife protection Act 1972 c). CRZ Notification 1991	No		
22	Whether there is any government order/Policy relevant/relating to site?	No		



23	Forest Land involved (ha)	Nil
24	Whether there is any litigation pending against the project is or land in which the project is proposed to be set up? a). Name of the Court b). Case No c). Orders/directions of the Court, if any and its relevance with the proposed project.	No case under EP Act.

(II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	Total land involved in the Project (Mining Area) – 512.54 Ha Breakup of land is as follows: 1. Forest/RF : Nil 2. Tenancy land : 440.535 Ha 3. Govt. Land : 72.005 Ha <b>Total: 512.540 Ha</b>
1.2	Clearance of existing land, vegetation and buildings?	Yes	<b>Land acquired under MMRD Act, 1957</b>
1.3	Creation of new land uses?	Yes	This is an underground mine, no major post mining land usages will change.  Breakup of land is as follows: 1. Forest/RF : Nil 2. Tenancy land : 440.535 Ha 3. Govt. Land : 72.005 Ha <b>Total: 512.540 Ha</b>
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Total 100 boreholes were drilled within the mine block.
1.5	Construction work?	No	Construction of the major buildings already completed.
1.6	Demolition work?	Yes	As per Final Mine Closure Plan. Progressive mine closure plan has been prepared & duly approved by SECL Board in its 221 <sup>st</sup> meeting on 27.01.2014
1.7	Temporary sites used for construction works or housing of construction workers?	No	Not Applicable

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4/9/18

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1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	There are only office buildings/ Infrastructures & service roads.
1.9	Underground works including mining or tunneling?	Yes	Underground Mining
1.10	Reclamation works?	Yes	Not Applicable
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production and manufacturing processes?	Yes	Underground Mining with Bord & Pillar Method.
1.14	Facilities for storage of goods or materials?	Yes	About 1.0 hectare area is used for storage of goods & coal stock.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	i). Underground mine water is being treated in the surface settling tanks and chemical treatment in filter plant. The treated water is being utilized for the drinking purpose, industrial purposes i.e. spraying, plantation & in underground workings. ii). No solid waste generated.
1.16	Facilities for long term housing of operational workers?	Yes	There are combined residential colonies for Umaria and Piparia UG mines.
1.17	New road, rail or sea traffic during construction or operation?	No	Road Network already present, No need of new construction.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	No
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	No
1.20	New or diverted transmission lines or pipelines?	No.	No
1.21	Impoundment, damming, culverting realignment or other changes to the hydrology of water courses or aquifers?	No	No change in water bodies at surface.
1.22	Stream crossings?	Yes	One seasonal Jore (chapha nalla) exist in the lease hold area which is 150 mtrs away from incline no.2.  Two canals - Umrar canal no.1 on west side and Umrar canal No.2 on east side of the mining area. All statutory precautions taken as per CMR-2017.



1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Due to mine activity aquifers will be intersected and inflow of ground water. Total water requirement for the project is 755 KLD to be met by mine water supply & from other sources such as tapping ground water (tube wells etc.)
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	No
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Coal is transported from underground face to surface bunker through belt conveyor. After that coal is being transported from coal stock yard to railway siding/consumers by covered truck/tippers.
1.26	Long-term dismantling or decommissioning or restoration works?	Yes	It will be dealt in final mine closure plan. Progressive Mine Closure plan prepared & approved by SECL Board on 27.01.2014
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	All Decommissioning of machinery and equipments will be dealt in final mine closure plan.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Employment (as on 01.04.2018): 469
1.29	Introduction of alien species?	No	Not applicable.
1.30	Loss of native species or genetic diversity?	No	Not applicable.
1.31	Any other actions?	No	Not applicable.

**2. Use of Natural resources for construction or operation of the Project (Such as land, water, Materials or energy, especially any resources which are non-renewable or in short supply):**

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
2.1	Land especially undeveloped or agricultural land (ha)	Yes	Agriculture land is 440.535 Ha.
2.2	Water (expected source & competing users) unit : KLD	Yes	Total water requirement for the project is 755 KLD (Industrial demand- 335 KLD & Domestic demand: 420 KLD) to be met by mine water supply and tube wells and to be utilized in mine operation, dust suppression, plantation and domestic purpose.
2.3	Minerals (MT)	Yes	Mineable reserve : 2.343 MT (Seam No. IV) (as on 01-04-2018)
2.4	Construction material – stone, aggregates, sand / soil (expected source) (MT)	Yes	Construction material will be used in u/g for making sectionalisation /isolation & ventilation stopping & other work etc.- 0.002 MT

			Source of construction materials: Stone crushers and river sand.
2.5	Forests and timber (source – MT)	No	Nil
2.6	Energy including electricity and fuels (source, competing users) unit : fuel (MT), energy (MW)	Yes	Electricity: 8524 MWH consumed in 2017-18, Fuel : Diesel &POL -0.02 KL/day
2.7	Any other natural resources (use appropriate standard units)	No	Not applicable.

**3. Use, storage transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.**

Sl. No.	Information/Checklist confirmation	No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna and water supplies)	No	Not Applicable.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Not Applicable.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	Not Applicable.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	No	Not Applicable.
3.5	Any other causes	No	Not Applicable.

**4. Production of solid wastes during construction or operation or decommissioning (MT/month).**

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
4.1	Spoil, overburden or mine wastes	No	Not Applicable.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	In residential colony: Soak pits & Septic tanks have been constructed for discharge of domestic effluents.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Generation of Hazardous wastes of Cat.-5.1- Spent/Used Oil- 0.180 MT/year Cat.-5.2- Waste oil sludge- 0.108 MT/Year
4.4	Other industrial process wastes	No	Not applicable.
4.5	Surplus product	No	Not applicable.
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Sewage disposal system with conventional septic tanks & soak pits in residential colony.
4.7	Construction or demolition wastes	Yes	As per Final Mine Closure Plan.



4.8	Redundant machinery or equipment	Yes	P&M items are surveyed off beyond their serviceable life as and when necessary.
4.9	Contaminated solids or other materials	No	Not applicable.
4.10	Agricultural wastes	No	Not applicable.
4.11	Other solid wastes	No	Not applicable.

#### 5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	Emissions due to burning of fossil fuels from vehicles/ machinery deployed which is being controlled by water spraying.
5.2	Emissions from production processes.	Yes	The quantity is insignificant.
5.3	Emissions from materials handling including storage or transport	Yes	Release of dust during loading/unloading operations & during transport of coal which is being controlled by water spraying.
5.4	Emissions from construction activities including plant and equipment.	No	The mine is an old established mine further construction work is not required.
5.5	Dust or odors from handling of materials including construction materials, sewage and waste.	Yes	The generation of coal dust is within permissible limit.
5.6	Emissions from incineration of waste	No	Not applicable.
5.7	Emissions from burning of waste in open air (e.g. stashed materials, construction debris)	No	Not applicable.
5.8	Emissions from any other sources	No	Not applicable.

#### 6. Generation of Noise and Vibration, and Emissions of Light and Heat:

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
6.1	From operation of equipment e.g. engines/ventilation plant/crushers.	Yes	Operation of mining, CHP vehicles etc. However, noise level is being kept within permissible limits.
6.2	From industrial or similar processes	Yes	Noise level is being kept within permissible limits
6.3	From construction or demolition	Yes	As per final mine closure plan but will be kept within permissible limits.
6.4	From blasting or piling	Yes	Blasting intensity maintained within permissible limits as specified by DGMS.
6.5	From construction or operational traffic.	Yes	Noise level is being kept within permissible limit.

6.6	From lighting or cooling systems	Yes.	The quantity is insignificant.
6.7	From any other sources	No	Not applicable.

**7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:**

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
7.1	From handling, storage, use or spillage of hazardous materials.	Yes	Generation of Hazardous wastes of Cat.-5.1- Spent/Used Oil- 0.180 MT/Year Cat.-5.2- Waste oil sludge- 0.108 MT/Year
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Colony sewage is disposed off through septic tank and soak pit arrangement.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Fugitive emission into air is being maintained within prescribed limits.
7.4	From any other sources	No	Not Applicable.
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	No Applicable.

**8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:**

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	Yes	Emergency organization plan has been prepared as per stipulation of DGMS. Hazardous waste rule is being followed.
8.2	From any other causes	Yes	1. Roof fall in u/g 2. Electricity etc. Code of practice for Emergency organization plan has been prepared as per stipulation of DGMS.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	Yes	Although the project is not falling under seismically active zone or land slide prone zone. However mine is well equipped to deal with eventuality as enumerated in CMR 1957 and related DGMS circulars.



**9. Factors which should be considered (Such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality:**

Sl. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data.
9.1	Lead to development of supporting, facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: - Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) - Housing development - Extractive industries - Supply industries - Other	Yes	Project will lead to development of ancillary industries & an overall economic growth of nearby areas to supplement the population of the area. Along with leading to semi urban development in Infrastructure of the areas & supporting mining and other industries.
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	Land will be used for developing green belt in the depillared area, if any.
9.3	Set a precedent for later developments	Yes	Economic development in the entire region leading to over all socio economic growth.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects.	Yes	Existing mines have lead to economic development in the region.

**(iii) Environmental Sensitivity:**


Sl. No.	Areas	Name/identity	Aerial distance (within 15 km) Proposed project location boundary.
1	Areas protected under international conventions, national or local legislation for their ecological landscape, cultural or other related value.	No	Umaria RF- 2 km and Badrehal RF- 3 km
2	Areas which are important or sensitive for ecological, landscape, cultural zone, biospheres, mountains, forests.	No	Not applicable.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	Not applicable.
4	Inland, coastal, marine or underground waters	No	Not applicable.
5	State, National boundaries	No	Not applicable.

6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas.	No	Not applicable.
7	Defense installations.	No	Not applicable.
8	Densely populated or built-up area	Yes	Mining, commercial and residential, establishments of mines of SECL and villages are situated within 10 KM of the mine.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Hospitals, school, places of worship etc are situated within 10 KM of the mine.
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Yes	Except for coal reserve, no other high quality reserves encountered.
11	Areas already subjected to pollution or environmental damage, (those where existing legal environmental standards are exceeded)	No	Not applicable
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Yes	Not Applicable.

**Undertaking:** I hereby given undertaking that the data and information given in the application and enclosure are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

Date: 04.09.2018

Place: Umaria

  
 General Manager  
 Johilla Area SECL  
 श्री. मधु प्रबंधक  
 एल.ई.जी.एच. जौहिला क्षेत्र