

साऊथ ईस्टर्न कोलफील्ड्स लिमिटेड

South Eastern Coalfields Limited

South Eastern Coalfields Limited

Registered Office: Seepath Road

Post Box No : 60

BILASPUR (CHHATTISGARH) S.E.C.L



Bishrampur Area

Post:- Bishrampur Colliery

Distt:- Surajpur (Chhattisgarh)

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NO: GM / BSPR / Evt / 10A / 2018 / 1879

DATE: 03.10.2018

To

The Director IA-Coal Mining,

Ministry of Environment, Forest & Climate Change.

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi-110003

Subject: - Submission of Form-1 for revalidation of EC of Gayatri Underground coal mine of 0.30 MTPA & mine lease area 507.472 ha

Ref.:- 1. Previous EC No J-11015/26/2000-IA.II(M) dtd. 27th Nov. 2002.

2. MoEF&CC Notification S. O. 1530(E) New Delhi, the 6th April.2018

Dear Sir,

This has reference to the Environmental Clearance (EC) at reference '1' accorded to Gayatri Underground coal mine of 0.30 MTPA in project area of 507.472 ha located at Village Getra, Tehsil Ambikapur, District Surguja in Chhattisgarh State of South Eastern Coalfields Limited Bilaspur by MoEFCC vide letter dated 27th November 2002 under provisions of EIA Notification 1994.

Now as per the MoEF&CC latest Notification No S. O. 1530(E) New Delhi dated 6th April.2018, "Mining Projects, which were granted EC under provisions of EIA Notification 1994 but not obtained EC for expansion / modernization / amendment under provisions of EIA notification 2006, are required to obtain EC under notification 2006".

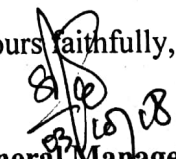
In compliance to the aforesaid Notification Form-1 of Gayatri Underground coal mine of existing EC capacity 0.30 MTPA, Lease Area 507.472 ha is enclosed herewith for your kind perusal.

In addition to above we would like to draw your kind attention that an expansion proposal for Gayatri Underground coal mine from 0.30 MTPA to 1.188MTPA in an mine lease area 507.472 ha for which Tor has already been issued by MoEF&CC vide letter no. J-11015/26/2000-IA.II(M) dated 09th August 2017.

It is therefore most earnestly solicited that our above submission may kindly be considered for revalidation of EC of Gayatri Underground coal mine of 0.30 MTPA in project area of 507.472 ha

Encl.:- As above

Yours faithfully,


General Manager
Bishrampur Area

C.C. 1. Dir.Tech. (Opr.), SECL; for kind information please

2. RD, CMPDIL, RI-V, Bilaspur

3. GM (Evt & WBP),SECL, Bilaspur

GAYATRI UNDERGROUND MINE

**Village : Getra
Tehsil : Lakhanpur
District : Surguja
State : Chhattisgarh**

Project Area: 507.472 Ha
Production Capacity: 0.30 MTPA

APPLICATION FOR TOR



SOUTH EASTERN COALFIELDS LIMITED
(A MINI RATNA COMPANY)
BILASPUR (CHHATTISGARH)

GAYATRI

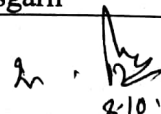
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APPENDIX- I
(See paragraph-6)
(See Paragraph 7 (ii) in case of expansion project)
FORM 1

(I) BASIC INFORMATION

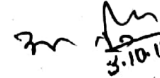
S. No	Item	Details
1	Name of the project/s	GAYATRI UNDERGROUND MINE
2	S. No. in the schedule	1(a)
3	Proposed capacity/area/length/tonnage to be handled/command area /lease area/ number of wells to be drilled	Re-validation of existing EC granted under EIA Notification 1994 ,desired under MoEFCC, GOI, Gazette Notification SO 1530(E) dated:06.04.2018 No change in Existing EC Capacity 0.30 MTPA and mine Lease area 507.472 Ha Boreholes: 180 numbers of boreholes have been drilled in an area of 22sqkm, at a borehole density of 8 no./sq.km.
4	New /Expansion /Modernization	Neither New nor Expansion. Application for re-validation of existing EC granted under EIA Notification 1994 ,desired under MoEFCC ,GOI, Gazette Notification SO 1530(E) dated:06.04.2018 No change in Existing EC Capacity 0.30 MTPA and mine Lease area 507.472 Ha
5	Existing Capacity / Area etc.	Existing capacity 0.30 MTPA and lease area 507.472 Ha.
6	Category of Project i.e. ' A' or 'B'	A
7	Does it attract the general condition? If yes, please specify.	No
8	Does it attract the specific condition? If 'yes, please specify.	No
9	Location	Gayatri Underground Mine is situated in Surguja district of Chhattisgarh.
	Plot/Survey/Khasra No	Latitude- 23 ⁰ 05'15" to 23 ⁰ 07'30" N Longitude- 82 ⁰ 53'32" to 82 ⁰ 56'53" E G.S.I. Topo Sheet No. 64 – I/16 (1:50000).
	Villages	Getra
	Tehsil	Lakhanpur
	District	Surguja
	State	Chhattisgarh


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10	Nearest railway station/ airport along with distance in kms.	Bisrampur Railway Station about is 10Kms aerial & 30kms by road from mine. Raipur Airport: 355 KM		
11	Nearest Town, city, District Headquarters along with distance in kms.	a) Towns: Surajpur - 25 Km, Bisrampur town - 15 Km b) District H/Q: Ambikapur - 40 Km District Collectorate, Surguja District, Chhattisgarh		
12	Village, Panchayats, Zilla Parishad , Municipal Corporation, Local body (complete postal address with telephone nos.to be oiven	Panchayat/ Municipal	Village	Contact Nos.
		Sarpanch	Getra	9406488233
			Pondi	9617241414
			Jobga	9826147959
13	Name of the applicant	South Eastern Coalfields Limited		
14	Registered address	Seepat Road , Bilaspur 495006. (CG)		
15	Address for correspondence:			
	Name	Ghanshyam Singh	Binay Kumar Chaudary	
	Designation (Owner/Partner /CEO)	General Manager	Sub Area Manager	
	Address	Office of the General Manager, SECL,Bishrampur Area	Gayatri UG Mine, Village-Getra, Teshsil-Lakhanpur District-Surguja Chhattisgarh	
	Pin Code	497226	497229	
	E-mail	gmspr.secl@coalindia.in	samrgk.bspr@secl.gov.in	
	Telephone No.	07752-264226	07775-205340	
	Fax No.	07752-246214	07775-205340	
16	Details of Alternative Sites examined if any. Location of these sites should be shown on a topo sheet.	The mine is operational. Coal Mining is a site specific activity.		
17	Interlinked Projects	Not Applicable		
18	Whether separate application of interlinked Project has been submitted?	Not Applicable		
19	If yes, date of submission	Not Applicable		
20	If no, reason	Not Applicable		


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21	Whether the proposal involves approval /clearance under if yes, details of same and their status to be given Forest conservation Act 1980 Wildlife protection Act 1972 CRZ Notification1991.	Combined Stage-1 & final FC for Gayatri UG and Rehar UG Mines obtained for 547.012 Ha. (including 1.712 Ha of surface rights). Gayatri UG: Mining rights 416.772 Ha; (1st phase-249.762 Ha & 2nd phase -167.010 Ha) Surface rights: 1.040 Ha Rehar UG: Mining rights 130.240 Ha; Surface rights: 0.622 Ha Final FC obtained vide F.No. 8-90/99-FC Dtd. 27.09.2000
22	Whether there is any government order / policy relevant / relating to site?	No
23	Forest land involved (ha)	249.762 Ha
24	Whether there is any litigation pending against the project and 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 / Air Act / Water 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.N.	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	Gayatri mine is an operational underground coalmine. Land use plan:- Forest : 249.762 Ha Agricultural : 200.710 Ha. Govt. Land : 41.00 Ha Others (Tenancy land) : 16.00 Ha Total land : 507.472Ha. Post mining land use plan: As this is an underground mine and only a very small portion of surface area of the land has been disturbed for its use in infrastructure and township development. The post mining land use for this


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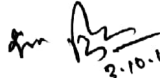
			surface land is in plantation at least in 40% area and remaining will be cultivable land. Build up area will be utilized by nearby project of SECL.
1.2	Clearance of existing land, vegetation and buildings?	Yes	Land has been acquired under CBA Act.
1.3	Creation of new land uses?	Yes	<p>Pre-mining land use plan:-</p> <p>Forest : 249.762 Ha Agricultural : 200.710 Ha. Govt. Land : 41.00 Ha Others (Tenancy land) : 16.00 Ha Total land : 507.472Ha.</p> <p>Post mining land use plan: As this is an underground mine and only a very small portion of surface area of the land has been disturbed for its use in infrastructure and township development. The post mining land use for this surface land is in plantation at least in 40% area and remaining will be cultivable land. Build up area will be utilized by nearby project of SECL.</p>
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Boreholes: 180 numbers of boreholes have been drilled in an area of 22sqkm, at a borehole density of 8 no./sq.km.
1.5	Construction work?	Yes	Construction of following infrastructure already exists, such as Substation, Pit office, Canteen, Rest shelter, First Aid room, Workshop, Weigh bridge.
1.6	Demolition works?	Yes	Progressive mine closure plan has been prepared & duly approved by SECL Board meet held in its 221st meeting held on dated 27.01.2014.
1.7	Temporary sites used for construction works or housing of construction workers?	No	Not applicable.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	Construction of following infrastructure already exists, such as Substation, Pit office, Canteen, Rest shelter, First Aid room, Workshop, Weigh bridge.
1.9	Underground works including mining or tunneling?	Yes	Extraction of Coal through underground mining method.


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1.10	Reclamation works?	No	Not Applicable.
1.11	Dredging?	No	Not Applicable.
1.12	Offshore structures?	No	Not Applicable.
1.13	Production and manufacturing processes?	Yes	Extraction of Coal through underground mining method.
1.14	Facilities for storage of goods or materials?	Yes	Coal stock yard for coal storage. Yard area: 0.50 Ha.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	1. Solid Waste: No solid waste generated. 2. Mine water: Sedimentation/settling Tanks for treatment on mine water: Primary treatment :02 Nos. Secondary treatment :02 Nos. 3. Old residential colony. Soak-pits & septic tanks have been provided in residential colony.
1.16	Facilities for long term housing of operational workers?	Yes	No. of Residential quarters: 429
1.17	New road, rail or sea traffic during construction or operation?	No	No new road/rail construction required.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	No new road/rail etc. construction required
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	No Closure or diversion of existing transport routes or infrastructure will be done.
1.20	New or diverted transmission lines or pipelines?	No	Not Applicable.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Yes	The radius of influence may range from 371 meters to 475 meters from mine working.
1.22	Stream crossings?	No	Not applicable.
1.23	Abstraction or transfers of water form ground or surface waters?	Yes	Total water requirement for the project is 351cum/day (drinking at mine site & industrial use) to be met by mine water supply & from other sources such as tapping ground water (tube wells etc.)


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1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	No changes
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	1. The evacuation of coal from face to coal Stock will be done by conveyor belts. 2. Coal will be transported from coal stock to siding by covered tippers.
1.26	Long –term dismantling or decommissioning or restoration works?	Yes	It will be dealt in final mine closure plan.
1.27	On going activity during decommissioning which could have an impact on the environment?	Yes	It will be dealt in final mine closure plan.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Project manpower- 815
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) :

S.N.	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/Tenancy land : 216.710 Ha
2.2	Water (expected source & competing users) unit: KLD	Yes	Industrial demand : 341Cum/day Domestic demand : 10 Cum/day Total : 351 Cum/day
2.3	Minerals (MT)	Yes	Geological reserve: 35.28 MT Seam-I Combined – 25.00 MT Seam-0 – 10.28 MT Mineable reserve: (as per Revised RPR) Seam-I Combined – 14.00 MT Seam-0 – 6.17 MT Balance Mineable/Extractable reserve as on 30.09.2018: Seam-I Combined – 11.487 MT Seam-0 – 6.17 MT Coal extracted till 30.09.2018: 2.757 MT
2.4	Construction material- store, aggregate, sand/soil (expected source)-in MT	No	Existing infrastructure facilities are being utilized.

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2.5	Forests and timber (Source-MT)	Yes	Forest land involved: 249.762 Ha
2.6	Energy including electricity and fuels (source. competing users) Unit: fuel(MT), energy (MW)	Yes	Electricity- 6.483 x 10 ⁶ units (KWH) as per project report
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.

S. No.	Information/Checklist confirmation	Yes/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)	Yes	Cap lamp and used batteries are being replaced with the new cap lamp & battery. The storage/use/handling of hazardous substances will be taken care as per safety norms.
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) :

S.N.	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	Underground mine; Not applicable.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Combined colony for Rehar & Gaytri UG mines: Old residential colony. Soak-pits & septic tanks have been

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			provided in colony.
4.3	Hazardous wastes (as per Hazardous waste Management Rules)	Yes	Used oil/waste oil are stored in separate drums/container. Then transported to Regional Store at Area HQ for storage and finally centralized auction from SECL HQ to the authorized parties. Cap lamp, used batteries are being replaced with the new cap lamp & battery.
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	Old residential colony. Soak-pits & septic tanks have been provided in colony.
4.7	Construction or demolition wastes	Yes	As per final mine closure plan. Progressive mine closure plan has been prepared & duly approved by SECL Boards meet held in its 221st meeting held on dated 27.01.2014.
4.8	Redundant machinery or equipment	Yes	Machinery/ equipments surveyed off as and when found necessary.
4.9	Contaminated soils 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) :

S.N.	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	02LCV and 08HCV (per day) are to be deployed in the project. Transportation of coal from mine to railway siding are being will be done by covered trucks/tippers. Emissions are within permissible limit.
5.2	Emissions from production processes.	Yes	Quantity within permissible limit.
5.3	Emissions from materials handling including storage or transport	Yes	Transportation of coal from mine to railway siding are being will be done by covered trucks/tippers. Emissions are within permissible limit


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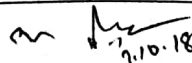
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5.4	Emission from construction activities including plant and equipment.	Yes	Emissions are within permissible limit.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Construction material not used. Domestic sewage & waste: Soak pit and septic tank provided at residential quarters. Industrial sewage and waste: no solid waste generated. Settling tank provided for treatment of mine discharge water.
5.6	Emissions from incineration of waste	No	Not Applicable.
5.7	Emissions from burning of waste in open air (e.g. slash 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:

S.N	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	Gayatri is an underground mine and there is no HEMM operational at surface. Noise from main mechanical ventilator is within permissible limit. Generation of noise, heat & light from operation of 02 LCV and 08HCV. Noise level is within permissible limits.
6.2	From industrial or similar processes	Yes	Underground mine, vibrations resulting due to blasting in mine are within permissible standards of DGMS.
6.3	From construction or demolition	Yes	As per final mine closure plan.
6.4	From blasting or piling	Yes	Underground mine, Generation of Instantaneous noise and vibration during blasting which is maintained with in the permissible limits specified by DGMS.
6.5	From construction or operational traffic	Yes	Generation of noise, heat & light from operation of 02LCV and 08HCV.


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6.6	From lighting or cooling systems.	Yes	Gayatri is an underground mine and there is no cooling plant operational at surface. Noise from main mechanical ventilator is within permissible limit.
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:

S.N.	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.	No	Underground mine; Not applicable.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Mine water: Sedimentation/settling Tanks for treatment on mine water: Primary treatment: 02 Nos. Secondary treatment: 02 Nos. Old residential colony. Soak-pits & septic tanks have been provided in residential colony.
7.3	By deposition of pollutants emitted to air into the land or into water.	Yes	The pollutants emitted are disperse/dilute/deposited in environment. The environment monitoring is being done as per coal mining standards and values recorded are within permissible limit.
7.4	From any other sources	No	Not Applicable.
7.5	Is there a risk of long term build up or pollutants in the environment from these sources?	No	Not Applicable.

8. Risks 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:

S.N	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	Standard operating practices framed for storage, safe handling and usage of explosive. All precautionary measure as stipulated in License Granted for storage


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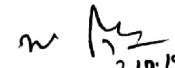
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			and use of explosive by "PESO" are strictly followed. MSDS for explosive are kept handy and followed. In addition to above Mine emergency response plan has been prepared to prevent any incidents / accidents as per guidelines of DGMS. Regular mock drills are conducted to ascertain readiness of persons.
8.2	From any other causes	Yes	1. Operation of fleet of HCV on surface and operation of other UG equipment. 2. Blasting 3. Fire 4. Mine inundation. Traffic rule, Code of practice for blasting and emergency organization plan has been prepared as per guidelines of DGMS.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	Not applicable

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

S.N	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	Semi urban development and ancillary industry developed for supporting mining and other industries. This has led to creation of social infrastructures like schools, hospitals, roads, etc which have helped in the economic development of the region. The expansion of mine will further help in development of region through CSR activities and creation of direct and indirect employment.
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	Due to underground mining, there will be a little change in land use pattern. The after use of land will be covered in the Final mine closure plan as per prevailing guidelines/norms..


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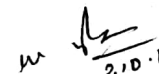

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9.3	Set a precedent for later development	Yes	Economic development leading to over all socio economic growth.
9.4	Have cumulative affects due to proximity to other existing or planned projects with similar affects.	No	Not Applicable

(ii) **Environmental Sensitivity**

S.N	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	Not Applicable.
2	Areas which are important or sensitive for ecological reasons-Wetlands, watercourses or other water bodies, coastal 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	Defence installations	No	Not Applicable.
8	Densely populated or built-up area	Yes	No of villages In core zone -03 In buffer zone -48
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Educational facilities Primary School -70 Middle School-16 Medical facilities: No. of Hospitals : 03 Post Office: 004
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Not Applicable.


SUB AREA MANAGER
R.K. Sub Area


3.10.18
खान प्रबंधक
COLLIERY MANAGER
गायत्री भूमिगत खदान
GAYATRI UNDER GROUND MINE

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)	No	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:



Ghanshyam Singh
General Manager
Bishrampur Area



B.K Chaudhary
Sub Area Manager
RG-K Sub Area



R.P Mishra
Colliery Manager
Gayatri UG Mine