

RAJNAGAR OPENCAST COAL MINE PROJECT (1.70 MTPA)

VILLAGE	DOLA (M.P.)
TEHSIL	KOTMA
DISTRICT	ANUPPUR
STATE	MADHYA PRADESH

PARTICULARS	EXISTING
PROJECT AREA	727.134 HA
PRODUCTION CAPACITY	1.70 MTY

APPLICATION
FOR
FORM-I



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

Handwritten signature
14/9/18
महामन्थक
GENERAL MANAGER
एच.ई.सी.एल., हसनपुर क्षेत्र
SECL, Hasdeo Area

Handwritten signature

APPENDIX-I
FORM-I

(i) BASIC INFORMATION

S.N	Item	Details		
1.	Name of the Project/s	Rajnagar Opencast Coal Mine Project (1.70 MTPA)		
2.	Sl. 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	Production Capacity - 1.70 MTPA Area- 727.134 ha.		
4.	New/Expansion/Modernization	<ul style="list-style-type: none"> • Extension of Validity • No increase in production capacity is proposed 		
5.	Existing capacity/Area etc.	Existing capacity-1.70 MTPA and total mining lease area is 727.134 ha. as per the existing EC.		
6.	Category of project I.e. 'A' or 'B'	'A'		
7.	Does it attract the general condition? if yes, please specify	Yes; Located in within 10 km from inter-State Boundary		
8.	Does it attract the specific condition? If yes, please specify.	No		
9.	Location	Rajnagar Opencast Coal Mine Project is situated in Hasdeo Area, SECL in Anuppur District of Madhya Pradesh. Rajnagar block falls in Survey of India Topo sheet No. 64 I/4 and lies between 23 ⁰ 11'38.92" to 23 ⁰ 13'45.03" N Latitudes and 82 ⁰ 05'42.16" to 82 ⁰ 09'31.62" E Longitude.		
	Plot/survey/Khasra no.	Survey of India Topo Sheet No. 64-I/4 (RF 1:50000)		
	Village	Pejhatola, Reunda, Naktitola & Dola	Khongapani	
	Tehsil	Kotma	Manendragarh	
	District	Anuppur	Korea	
	State	Madhya Pradesh	Chhattisgarh	
10.	Nearest Railway Station/airport along with distance in Kms.	Bijuri Railway Station 10.0 Km from the mine. Nearest Air port : Jabalpur- 320 Km.		
11.	Nearest Town, city, District Headquarter along with distance	Nearest Town : Bijuri (10.0Km) City/District H/Q :- Anuppur (65Km Madhya Pradesh)		
12.	Village, Panchayat, Zilla parishad, Municipal corporation, Local body (complete postal Address with telephone number to be given)	S.no.	Details	Tel./Mob. No.
		1.	Tehsil-Kotma	07658-233274 9669155076
		2.	Zilla Parisad- Anuppur	07659-222979 9754166040
		3.	Collectorate, Dist.- Anuppur	07659-222400
		4.	Gram Panchayat- Dola	7489531896 (Panchayat Secretary)

Handwritten Signature
14/9/18

महाप्रबंधक

GENERAL MANAGER

एल.ई.सी.एल., हसदेव क्षेत्र
SECL, Hasdeo Area

Handwritten Signature

13.	Name of the applicant	Ashok Kumar Udeniya
14.	Registered address	OFFICE OF THE AREA GENERAL MANAGER SECL, HASEDO AREA PO:South Jhagrakhand Colliery, Distt.- Korea (C.G.)
15.	Address for correspondence	
	Name	Ashok Kumar Udeniya
	Designation(owner/Partner/CEO)	Area General Manager, SECL, Hasdeo Area
	Address	OFFICE OF THE AREA GENERAL MANAGER SECL, HASEDO AREA PO:South Jhagrakhand Colliery, Distt.- Korea (C.G.)
	Pin code	497448
	E-mail	gmhsd.secl@coalindia.in, gmhsd@secl.gov.in & gmenvtsecl@gmail.com
	Telephone No.	07771-243035/+91-9425533501
	Fax No.	07771-241359
16.	Details of alternative sites examined if any. Location of these site should be shown on a topo Sheet	The mine is operational. Coal mining is a site specific activity.
17.	Interlink 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
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.	Total forest land involved- 153.371 ha. (including surrendered 68.941 ha. forest land) Details as below: (i) Earlier, 149.171 ha. forest land was diverted under Forest Conservation Act, 1980 in different proposals. Out of 149.171 ha., 80.230 ha. forest land has been applied for renewal under FC Act, 1980 for which stage-I/ In-principle approval has already been obtained vide letter no. F.No. 8-1545/2006-FC Dtd. 10.01.2008 by MoEF&CC, New Delhi. Final approval awaited. (ii) 4.20 ha. Forest land stage-I issued vide letter No F.No.8-145/2006-FC dtd. 26.11.2008. Final approval awaited b) Not applicable c) Not applicable
22.	Whether there is any government order/policy relevant/relating to site?	No
23.	Forest land involved	153.371 ha. (including surrendered 68.941 ha. forest land)

[Handwritten signature]

[Handwritten signature]
14/4/18
महाप्रबंधक
GENERAL MANAGER
एल ई सी एल, हसनपुर क्षेत्र
SECL, Hasdeo Area

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 /direction of the court, if any and its relevance with the proposed project.	No Not Applicable Not Applicable Not Applicable
-----	---	--

(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 of thereof (with approximate quantities/rates, wherever possible) With sources 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 727.134 ha Break-up as follows:- 1. Forest 153.371 ha.* 2. Tenancy/Agriculture Land 404.052 ha. 3. Govt. Land 137.361 ha. 4. Railway land 32.350 ha. Total = 727.134 ha. * Including surrendered 68.941 ha forest land
1.2	Clearance of existing land, vegetation and buildings?	No	It is a running project and clearance of existing land, vegetation and buildings has already been done.
1.3	Creation of new land uses?	Yes	Post Mining land use- Total mining area: 727.134 ha. (a) Internal dump (Reclaimed) : 395.732 ha, (b) External dump (Reclaimed): 44.312 ha. (c) For infrastructure, Explosive Magazine, road, colony etc.: 30.311 ha. (d) Water body: 107.81 ha. (e) Safety Zone: 116.619 ha. (f) Other (Railway land shall be restored and return to railway authority): 32.350 ha.
1.4	Pre-construction investigation e.g. bore houses, soil testing?	No	Not Applicable
1.5	Construction Work?	No	It is a running project and construction work of major infrastructure has already been completed.
1.6	Demolition Work	Yes	Shifting of houses shall be done.
1.7	Temporary sites used for construction works or cut and fill or excavation.	No	It is a running project; major infrastructure has already been completed.

[Handwritten signature]

[Handwritten signature]
14/4/18
महाप्रबंधक
GENERAL MANAGER
एन.ई.सी.एल., हसन क्षेत्र
N.E.C.L., Hasdeo Area

1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	No	Existing Infrastructure: Workshop, office, coal stockyard, filter plant, road, colony, magazine.
1.9	Under works including mining or tunneling?	No	Mining is being done by Opencast method.
1.10	Reclamation Works?	Yes	The combined reclamation work proposed in the mine would be: (a) Built up area (infrastructures and colony): 30.311 Ha (b) Internal dump after backfilling: 395.732 ha (c) External dump: 44.312 ha (d) Safety one: 116.619 ha (e) Final void/ water body: 107.81ha
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production and manufacturing processes?	Yes	Opencast coal mining with coal production of 1.70 MTPA
1.14	Facilities for storage of goods or materials?	Yes	Coal stock yard 11.763 ha. Magazine 0.276 ha. Store/ workshop 2.744 ha.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Total volume of OB to be generated is 25.00 MM ³ and this total volume will be backfilled in internal dump and old quarry. Oil and grease trap area - .020 ha. Sedimentation tank – 6.00 ha. Individual septic tank & soak pit has been provided in colony quarters.
1.16	Facilities for long term housing of operational workers?	Yes	Housing needs is fulfilled by already existing residential colony of the Project.
1.17	New road, rail or sea traffic during construction or operation?	No	Not Applicable; existing facilities will be used.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.	No	Existing road network is sufficient to cater the transportation. Existing roads will be further strengthened from time to time to maintain the road in proper conditions.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements.	No	Not Applicable.
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 shall be limited to mining area.
1.22	Stream crossings?	No	Not Applicable.
1.23	Abstraction or transfers of water form ground or surface waters?	Yes	There is no abstraction or transfers of water form ground or surface waters sources, however mined out water is first collected in large capacity sumps where coal particles and

(Handwritten Signature)
महाप्रबंधक

GENERAL MANAGER
एन.ई.सी.एल., हसनूर क्षेत्र
SECL, Hasdeo Area

(Handwritten Signature)

(Handwritten Signature)

			silt get settled down. Settled water is being utilized to meet the mine industrial water use (i.e. for dust suppression, workshop & green belt development). Balance quantity is further treated through pressure filters and treated water is distributed to SECL colonies and nearby area for domestic & other usages. Thus complete utilization of mined out water is ensured.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	Yes	Small ponds. First order streamlets.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Transportation of coal from face to CHP by trucks/ tippers after that the coal is being dispatched by rail mode through belt conveyor and OB transported by dumpers.
1.26	Long-term dismantling or decommissioning or restoration works?	Yes	All Long term dismantling or decommissioning or restoration works will be dealt at the time of final Mine closure as per approved MCP.
1.27	Ongoing 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?	No	Not Applicable
1.29	Introduction of alien species or genetic diversity?	No	Not Applicable
1.30	Loss of native species or genetic diversity?	No	Not Applicable
1.31	Any other action?	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 in or in short supply):-

S.N	Information/Checklist confirmation	Yes/ No	Details of thereof (with approximate quantities/rates, wherever possible) With sources of information data.
2.1	Land especially undeveloped or agricultural land (ha)	Yes	Total land involved in the project 727.134 ha Break-up as follows:- 1. Forest 153.371 ha.* 2. Tenancy/Agriculture Land 404.052 ha. 3. Govt. Land 137.361 ha. 4. Railway land 32.350 ha. Total = 727.134 ha. * Including surrendered 68.941 ha forest land
2.2	Water (expected source & competing users) unit: KLD	Yes	Mined out Water to be utilized for Mine operation/industrial use 6445 KLD and for Domestic uses 1000 KLD.

Signature

Signature
14/9/18
महाप्रबंधक
GENERAL MANAGER
एल.ई.सी.एल., हसनप क्षेत्र
SECL, Hasdeo Area

2.3	Minerals (MT)	Yes	Extractable balance reserve as on 1.04.2018 – 2.5 MT. (Coal)
2.4	Construction material stone, aggregate, sand/soil (expected source)- in MT	No	Existing infrastructure will be utilized.
2.5	Forests and timber (source-MT)	No	Not applicable being an opencast mine.
2.6	Energy including electricity and fuels(source, competing users) Unit: fuel (MT), energy (MW)	Yes	Power consumption 2017-18: 4500 KVA Fuel- Diesel: 1384.443 KL (for FY 2017-18)
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.N	Information/Checklist Confirmation	Yes/ No	Details of thereof (with approximate quantities/rates, wherever possible) With sources 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 vector (e.g. insect or water borne diseases)	No	Not applicable
3.3	Affect the welfare of people e.g. by changing living condition.	No	Not applicable
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital parents, 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 of thereof (with approximate quantities/rates, wherever possible) With sources of information data.
4.1	Spoil, overburden or mine waste	Yes	25 MM ³ OB will be generated.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Door to door collection by the TA department of Rajnagar OC Project.
4.3	Hazardous wastes (as per Hazardous waste management Rule)	Yes	Used oil generated from machineries. Authorization obtained from MPPCB to operate a facility for generation, collection, reception, storage and transport of hazardous waste (under category 5.1 & 5.2).

[Handwritten Signature]

[Handwritten Signature]
19/4/18
महाप्रबंधक
GENERAL MANAGER
एन.ई.सी.एल., इंदौर क्षेत्र
SECL, Hasdeo Area

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	Cleaning of sludge from settling tank is being done regularly. Set of septic tanks and soak pits provided to dispose of domestic sewage.
4.7	Construction or demolition wastes	Yes	Solid waste will be generated from demolition of houses, service buildings and infrastructure after mine closure. The waste so generated will be used for filling low lying areas or old quarry voids.
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	Agriculture 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 of thereof (with approximate quantities/rates, wherever possible) With sources of information data.
5.1	Emission from combustion of fossil fuels from stationary or mobile sources.	Yes	Emission from combustion of fossil fuels from HEMMs, HCVs, and MCVs deployed for OB and coal production 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	Emission from combustion of fossil fuels from HEMMs, HCVs, and MCVs deployed for OB and coal production are within permissible limit.
5.4	Emissions from construction activities including plant and equipment.	Yes	Within permissible limit.
5.5	Dust or odors from handling of materials, sewage and waste.	Yes	The generation of 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. slash materials, construction debris)	No	Not applicable
5.8	Emissions from any other sources.	No	Not applicable

[Handwritten signature]

[Handwritten signature]
 महाप्रबंधक
 GENERAL MANAGER
 एन.डी.सी.एल., हसन क्षेत्र
 SECL, Hasdeo Area

6. Generation of Noise and vibration and emissions of Light and Heat:

S.N	Information/Checklist confirmation	Yes/ No	Details of thereof (with approximate quantities /rates, wherever possible) With sources of information data.
6.1	From operation of equipment e.g. engines/ventilation plant/crushers.	Yes	Generation of noise, heat & light from operation of HEMM is within permissible limit.
6.2	From Industrial or similar processes	Yes	Vibration resulting due to blasting in mine is within permissible limits specified by DGMS.
6.3	From construction and demolition	Yes	Within permissible limit.
6.4	From blasting or piling	Yes	Generation of instantaneous noise and vibration during blasting is maintained within the permissible limits specified by DGMS.
6.5	From construction or operational traffic	Yes	Generation of noise, heat & light from operation of HEMM is within permissible limit.
6.6	From lighting or cooling system.	Yes	Within permissible limit.
6.7	From any other sources	No	Not Applicable

7. Risk of contamination of land or water from releases of pollutants in to the ground or into sewers, surface waters, ground waters, coastal waters or the sea:

S.N	Information/Checklist confirmation	Yes/ No	Details of thereof (with approximate quantities/rates, wherever possible) with sources of information data.
7.1	From handling, storage, use or spillage of hazardous materials.	Yes	Used oil generated from machineries is stored safely in closed containers and further auctioned to CPCB authorized recyclers for safe disposal.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Complete utilization of mined out water. Septic tanks with soak pits provided for domestic sewage.
7.3	By deposition of pollutants emitted to air into the land into water.	Yes	Fugitive emission into air is 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

[Handwritten signature]

[Handwritten signature]
 27/9/18
 महाप्रबंधक
 GENERAL MANAGER
 एस.ई.सी.एल., हसन क्षेत्र
 SECL, Hasdeo Area

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, ground water, coastal waters or the sea:

S.N	Information/Checklist confirmation	Yes/ No	Details of thereof (with approximate quantities/rates, wherever possible)With sources of information data.
8.1	From explosions, spillages, fires Etc. from storage, handling, use or production of hazardous substances.	Yes	Prevention of accident is planned as per mine emergency response plan prepared as per guidelines of DGMS. Mock drills are conducted to ascertain readiness of persons.
8.2	From any other causes.	Yes	* Operation of fleet of HEMM/vehicle. * Blasting. * Fire. * 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, earth quakes, landslides, cloudburst etc?)	No	Not applicable

9. Factor 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 of thereof (with approximate quantities/rates, wherever possible)With sources 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 * Others	Yes	Nos. of OC & UG mines of SECL and their colonies are situated in the study area. This has led to creation of social infra structure like school, 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 & indirect employment.
9.2	Lead to after use of the site, which could have an impact on the environment.	Yes	The biologically reclaimed land will improve the green cover in the area and help in biodiversity conservation. Final stage water body will be used for water storage and recharge to be used by society.

[Handwritten signature]

[Handwritten signature]
19/9/18
महाप्रबंधक
GENERAL MANAGER
एन.ई.सी.एल., हसनप क्षेत्र
SECL, Hasdeo Area

9.3	Set a precedent for later development	Yes	Economic development leading to overall socio-economic growth.
9.4	Have cumulative affects due to proximity to other existing or planned projects with similar affects.	Yes	The cumulative impact of operating coal mines of SECL has resulted in economic development of the area.

(i) **Environmental Sensitivity:**

S.N	Areas	Name/ Identity	Aerial distance (within 15Km 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, water courses or other water bodies, coastal Zone, biosphere, mountains, forests.	No	Not applicable
3.	Area 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 water	No	Not Applicable.
5.	State, national Boundaries	Yes	Area falls between the state boundary of C.G. & M.P.
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	Many commercial and residential establishment & mines of SECL such as west JKD U/g mine, Ramnagar U/g mine, Bijuri u/g mine, Rajnagar RO u/g mine Amadand OC mine etc. of SECL are situated within 15 KM of the project. Number of villages: In core zone-4, in buffer zone-44
9.	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	Yes	No. of Primary school – 58 No. of Middle school – 28 No. of High school – 9 No. of Sub health centre – 03 No. of Higher Secondary School – 6 No of College – 2 No of Anganbadi – 74

[Handwritten Signature]

[Handwritten Signature]
महाप्रबंधक
GENERAL MANAGER
 एन.ई.सी.एल., हसनख क्षेत्र
 SECL, Hasdeo Area

10.	Areas containing important, high quality or scarce resources (ground water resources, Surface resources, forestry, agriculture, fisheries, tourism, mineral)	Yes	A nos. of underground and Opencast coal mines of SECL are situated in the study area as mentioned above. The study area consists of patches of PF & RF. Except for coal reserve, no other high quality reserves are found in the area.
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 give 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:

Place: Hasdeo Area

Signature of the applicant

(A.K. Udeniya)

Area General Manager
SECL, Hasdeo Area

महाप्रबंधक

GENERAL MANAGER

एल.ई.सी.एल., हसदेव क्षेत्र

SECL, Hasdeo Area