

FORM-I

(I) Basic Information

1	Name of the project	Tapin South Expansion OCP (2.00 MTPA Normative Capacity & 2.50 MTPA Peak Capacity), Hazaribagh Area, Central Coalfields Limited.
	Salient Features	Tapin South OCP is a taken over mine. At the time of nationalization it was producing about 0.20 MTPA of coal from a number of small quarries. An Interim Feasibility Report was prepared for Tapin Opencast Project in September, 1975 for a rated capacity of 0.6 MTPA. At present there is no mining activity in this block. Earlier, two opencast and one UG mine were operated in this block.
		One quarry known as Quarry No -45 has been worked in the west of Jharna Nala. This Quarry has been worked upto Seam IV/V combined leaving Seam II at the bottom. It has been worked from the incrop of IV/V seam and reached upto Jharna nala thereby halted further advancement of the mine. This Quarry No-45 is water filled. OB from this mine has been dumped externally.
		It is proposed to exploit the coal seams in the dip side of the existing Quarry No-45 from Seam VIIIC to Seam II. The parameters of the opencast minefield and the technical condition of its development make it feasible to produce 2.00 MT of ROM coal per annum with normal technical indices i.e., deployment of equipment, strike length of the quarry, annual advances of the faces, etc. Therefore, an Expansion Project Report of Tapin South OCP (0.6 MTPA to 2.0 MTPA) has been approved (In Principle) by CCL Board in September, 2012.
		Ten (10) numbers of coal horizons, namely Seams VIII C, VIIIA,VIII,VII B,VII A,VII,VI ,VA,IV /V combined and II are occurring within this mining block. Seam II is the base seam of the proposed quarry. Coal produced from this mine will be of washery grade—IV. This quarry is proposed to be started after dewatering of Quarry No -



Sel Indi		
		45.
		Keeping in view the time required for release of forest land and new policy of MOEF requiring mandatory prior Stage-I release of Forest land for grant of EC, this project has been prepared in two phases.
		In Phase-I, all mining activities & infrastructure development are limited to non-forest land only. Whereas in Phase-II, the mining activity will be spread over forest land as well as non-forest land.
		Phase II is an extension of quarrying operation in Phase-I in which necessary action will be taken for obtaining forestry clearance within the 5 years life of Phase-I. Phase-II will be started from 6 th year onwards upto 19 th year, i.e. the last year of project life.
		The coal from Tapin South Expansion OCP is proposed to be dispatched to nearby Chainpur railway siding by trucks.
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	Proposed Capacity – 2.0 MTPA normative capacity & 2.50 MTPA peak capacity. Land Requirement – 178.06 Ha for Phase-I (Total land 277.15 ha for Phase-I + Phase-II) Mineable Reserves – 9.00 MT for Phase-I (Total 36.56 MT for Phase-I + Phase-II) from seam VIIIC to seam II.
	-	Total no. of Bore holes - 45
4	New / Expansion / Modernization	Expansion
5	Existing Capacity/Area etc	0.6 MTPA
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	
	Plot / Survey / Khasra No	Survey of India Topo Sheet no. 73E/5
	Village	Behra. Phusri, Kajri
	Tehsil	Churchu
	District	Hazaribagh



	State	Jharkhand
10	Nearest railway station / airport	Ranchi Road Railway Station at a distance of 30 km from
	along with distance in kms.	the block. Ranchi Airport 80 Km towards South.
11	Nearest Town, city, District	Nearest Town - Hazaribagh
	Headquarters	Nearest City - Hazaribagh
	along with distance in kms.	District Headquarters - Hazaribagh
12	Village Panchayats Zilla Parishad	Village Panchayat : Behra
	Municipal	CD Block : Churchu
	Corporation, Local body	District : Hazaribagh, Jharkhand.
	(complete postal	Pin- 825326
	Addresses with telephone nos.	
	to be given)	
13	Name of the applicant	Project Officer, Tapin South Expansion OCP, Central
		Coalfields Limited.
14	Registered Address	Tapin South Project, Hazaribagh Area, Central
		Coalfields Limited,
		PO - Tapin, Dist - Hazaribagh, Jharkhand.
		PIN- 825326
		Phone - 08987786319.
15	Address for correspondence:	
	Name	Alok Kumar
	Designation (Owner / Partner /	Dy. General Manager (Env & Forest),
	CEO	
	Address	Central Coalfields Limited,
		Darbhanga House, PO- Ranchi,
		Dist: Ranchi, Jharkhand.
	Pin Code	834001
	E-mail	-
	Telephone No.	0651-2360184
	Fax No.	0651-2360010
16	Details of Alternative Sites	Not Applicable. Coal mining project is site specific
	examined, if any.	depending on favourable geo-mining conditions.
	Location of these sites should be	Reserve proving operations have been completed and
	shown on a	Expansion Project report of Tapin South OCP has been
	toposheet	prepared. No alternative site has been considered for mine.
17	Interlinked Projects	No
18	Whether separate application of	Not Applicable
	interlinked	
	Project has been submitted	
19	If yes, date of submission	Not Applicable
20	If no, reason	Not Applicable



21	Whether proposal involves approval / clearance under	
	1. The Forest (Conservation) Act, 1980	Not required for Phase-I (required for Phase-II)
	2. The Wildlife (Protection) Act, 1972	No
	3. The CRZ Notification, 1991	No
22	Whether there is any Government Order/ Policy relevant/relating to the site	No
23	Forest land involved (hectares)	Nil for Phase-I
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

(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



1.12

1.13

Offshore structures?

manufacturing processes?

Production and

Form-I for Tapin South Expansion OCP (2.50 MTPA)

1.1 Permanent or temporary Yes Change in the land use due to mining change in land use, land operation & infrastructure development. cover or topography including increase intensity of land use (with respect to local land use plan) 1.2 Clearance of existing land, Yes In view of setting up of proposed mine and vegetation and buildings? adjoining infrastructure, clearance of existing land, vegetation and buildings is expected. 1.3 Creation of new land uses? Yes Proposed mining activity and infrastructure development will change the present land use. 1.4 Soil testing will be done at the time of detailed Pre-construction Yes investigations e.g. bore design. houses, soil testing? 1.5 Construction works? Yes Construction of Coal Handling Plant, field workshop, Sub-station, statutory buildings, etc is proposed. Approach road already exists so provision for construction of new approach is not provided. Provision for strengthening and widening of this road. A provision of 1.0 Km long haul road has been envisaged. 1.6 Demolition works? Yes Clearance of existing land, vegetation and buildings is expected. 1.7 The existing infrastructure is sufficient for this Temporary sites used for No construction works purpose. or housing of construction workers? Above ground buildings, Construction of Coal Handling Plant, field 1.8 Yes structures or earthworks workshop, Sub-station, statutory buildings, including linear structures, widening of roads etc is proposed. Excavation cut and fill or excavations will be done during mining activities. 1.9 Underground Not applicable works No includina mining tunneling? 1.10 Reclamation works? Land reclamation of internal & external Yes dumping followed by biological reclamation. 1.11 Dredging? No Not applicable.

No

Yes

Not applicable.

shovel-dumper combination.

Coal production by opencast method using



A ground bunker of capacity 7000 te for 1.14 Facilities for storage of Yes goods or materials? storing crushed coal. A small store is provided for storing the spares and consumables required for repair and maintenance of HEMM and other mining equipment. Solid wastes that will be generated in course 1.15 Facilities for treatment or Yes disposal of solid waste or of coal mining are overburden material liquid effluents? consisting of fragments of sandstone/shale of assorted size. They have not been found to generate acid mine drainage or leach high quantity of heavy metals. OB generation in Phase-I is 26.70 Mcum. Out of this, 80 % OB is proposed to be dumped externally and the balance 20 % is to be accommodated internally. Refer Plate-II for Phase-I dump plan. Total volume of OB to be generated in Phase-I & Phase-II is 128.31 Mcum. Out of this, 18 % OB is proposed to be dumped externally and the balance 82 % is to be accommodated internally. Refer Plate-III for final stage dump plan. The mine water is proposed to be treated in sedimentation pond and workshop effluent is proposed to be treated in O&G trap. Garland drains are proposed around mine pit and external dump. The water from garland drains will be routed through sedimentation pond. 1.16 Facilities for long term Yes Existing available quarter are sufficient to housing of operational accommodate the proposed man power. So no extra quarter would be required. workers? 1.17 New road, rail or sea traffic Yes Approach road already exists so no provision for construction of new approach has been during construction kept. A provision of 1.0 Km long haul road operation? has been envisaged. 1.18 rail, New road, Yes As above. air waterborne or other transport infrastructure



including new or altered routes and stations, ports, airports etc? Closure or diversion of 1.19 No Not applicable. existing transport routes or infrastructure leading to changes in traffic movements? 1.20 New diverted Not applicable. No or lines transmission or pipelines? 1.21 Impoundment, damming, Jharna Nallah passing through proposed Yes culverting, realignment or quarry area needs to be diverted in west of quarry and joined with Bokaro River towards other changes to hydrology of watercourses south of the quarry. The length of diverted or aquifers? route is approximately 2.5 Km. 1.22 Stream crossings? Yes Jharna Nallah passes through proposed quarry area. 1.23 In the opencast mine, the different aquifers Abstraction or transfers of Yes overlying the working coal seam would be water form ground or surface waters? contributing ground water to the mine by gravity drainage since they exposed/removed at the mine. As such due to this pumping/gravity drainage, cone of depression would be formed. Mine induced effect would be distinctly noticed within a distance of 300-400 m from the mine edge in the down-dip side and becomes milder/insignificant thereafter. A local change in ground topography will be 1.24 Changes in water bodies or Yes the land surface affecting created due to mining operation such as open drainage or run-off? pit, dumps of overburden and coal etc. As a result, there would be change in the drainage and surface run-off.

Within the core zone, cracks and loosening of soils would be resulted due to mining and associated activities thereby physical/textural changes would occur in soil/formation. This mine induced process increases the rate of infiltration and recharge. The back-filled area may be a good media for high groundwater recharge due to high permeability. Further,



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			the final void would store substantial quantity of rainwater, which can be utilised for domestic and agriculture use and also for recharging the groundwater source. It may be appropriate to highlight the fact that temporary groundwater loss/deficit created during active mining stage would be compensated by these different means in the post mining stage so that the initial groundwater levels are regained to normalcy at the earliest for utilization of the local population.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	There will be movement of mining workers and other personnel. Total manpower strength at the targeted output will be 716. Personnel will be commuting between colony and the mine by different modes of road transport in the shifts. Coal produced from the mine @ 6060 TPD is proposed to be transported to nearby railway siding.
1.26	Long-term dismantling or decommissioning or restoration works?	Yes	The closure activities form an integral part of mine. The residential quarters along with dispensary, sub-stations, pump house, filtration plant for providing basic amenities to workers will be maintained till the employees are required to stay. Service buildings namely, coal handling arrangement, workshop, store, office building etc will be demolished, if redundant, after mine closure and all useable items will be shifted to area store. When a residential building is vacated, the same will be demolished to prevent any unauthorized occupation.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	Yes	Solid waste generated during demolition of service and residential buildings after cessation of industrial activity will have an impact on the environment. Care will be taken to dump the solid waste in mine voids.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Influx of people will take place due to direct and indirect employment opportunities. This will continue throughout the life of the mine.
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.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	Land requirement in Phase-I for this project is 178.06 ha, which is non-forest land only. Total land requirement for Phase-I & Phase-II has been estimated as 277.15 Ha including safety zone and green belt.
2.2	Water (expected source & competing users) unit: KLD	Yes	The water requirement is proposed to be met from recycled mine water. There are no competing users of this water.
2.3	Minerals (MT)	No	Not Applicable.
2.4	Construction material, stone, aggregates and soil (expected source – MT)	Yes	Construction material for roads, culverts and service buildings is required. The same will be brought by existing road network.
2.5	Forests and timber (source – MT)	No	Not Applicable
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	For Tapin South Expansion OCP, 11 KV power would be made available from Tapin North s/s of CCL, which is located at a distance of about 2 kms. Tapin North s/s receives power from Parej East s/s which in turn, receives power from Ghato DVC s/s via Kedla (Basantpur) Central s/s of CCL. At the project, a sub-station for transforming the incoming 11 kV supply voltage to 6.6 kV would be established for feeding power to all the electrical groups of receivers proposed for this project. Transformer capacity of this substation has been proposed as 1600 KVA, 11/6.6 kV.



2.7	Any	other	natural	No	Not Applicable
	resour	resources (use appropriate			
	standa	standard units)			

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)	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):

S.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	Yes	OB generation in Phase-I is 26.70 Mcum. Out of this, 80 % OB is proposed to be dumped externally and the balance 20 % is to be accommodated internally.



			Total volume of OB to be generated in Phase-I & Phase-II is 128.31 Mcum. Out of this, 18 % OB is proposed to be dumped externally and the balance 82 % is to be accommodated internally.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Small quantity of domestic waste will be generated from Project colony which will be buried in decoaled area.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Old batteries and used engine oil will be generated. These shall be recycled through authorized recycling agents.
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	An insignificant quantity of clayey sludge from effluent settling may be produced which will be backfilled.
4.7	Construction or demolition wastes	Yes	Solid waste will be generated from demolition of residential quarters and redundant infrastructure at the time of final mine closure. The waste so generated will be backfilled in the de-coaled areas.
4.8	Redundant machinery or equipment	Yes	Old equipment and machinery will become redundant after the end of useful life and will be surveyed off and sold as scrap.
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.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	Yes	Emission from vehicles & mining machineries.



	sources		
5.2	Emissions from production processes	Yes	Dust emissions from drilling, blasting, loading and transportation of coal and OB (to be quantified in the EIA as per TOR).
5.3	Emissions from materials handling including storage or transport	Yes	Dust emissions from coal storage, handling and transportation will take place. Adequate measures shall be taken for dust suppression to mitigate the impacts.
5.4	Emissions from construction activities including plant and equipment	Yes	Adequate measures shall be taken to mitigate the impacts due to dust emission during construction activity of project infrastructure.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust will be generated from handling of materials including construction materials and solid waste.
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.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Noise will be generated during operation of HEMM and CHP. Suitable measures of noise control will be adopted. Ambient noise level outside the lease area is not likely to exceed the permissible limit of 55 dBA during daytime and 45 dBA during night-time.
6.2	From industrial or similar processes	Yes	Noise will be produced during drilling and blasting.



6.3	From construction or demolition	Yes	The noise level is likely to be well within specified limit.
6.4	From blasting or piling	Yes	Controlled blasting as per DGMS statutes will be practiced.
6.5	From construction or operational traffic	Yes	From Coal and OB transportation. The quantum is measured through regular monitoring and is likely to remain within permissible limits.
6.6	From lighting or cooling systems	No	Not applicable
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.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	No	Not applicable
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	No contamination expected as domestic sewage and mine effluent will be properly treated before discharge into local drainage.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Control measures like spraying at all dust generating points is adopted. In view of this, fugitive dust emission into air is expected to be insignificant.
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	Not applicable



8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment:

S.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	The magazine house for storage of explosives and components of SMS is maintained as per the terms and conditions of the Explosive License. In view of this, accident leading to fire or explosion is not likely. The magazine house is fenced-off and guarded round the clock from safety point of view.
8.2	From any other causes	Yes	 Slope failure in OB Dump and mine Pit Mine Inundation Blasting Fire in coal or shale dump
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	The project does not fall under seismically active zone or landslide prone area. Apart from safety measures, the mine is equipped to deal with any eventuality.

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:

S. 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.)	Yes	Supporting infrastructure facilities of the mine have already come up. This has impacted the local land use pattern. However, socio-economic growth associated with mining activity has led to semi-urbanisation. This supports development of ancillaries and other related activities.



	housing developmentextractive industriessupply industriesother		
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	Some of the activities mentioned at 9.1 above could assume permanent residency with appropriate feed sustained growth mechanism.
9.3	Set a precedent for later developments	Yes	The proposed mine infrastructure may be used in future also by other nearby projects after exhaustion of the reserves of Tapin South Expansion OCP. As such, the likelihood of precedence for later developments cannot be ruled out. Activities at 9.1 & 9.2 above will lead to over all socio economic growth of the area. Socio-economic benefits of the Project will accrue to local population also.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	As West Bokaro coalfield covers a large area having very good mining potential, associated mining activities in future with numerous closely located centers as indicated at 9.1, 9.2 and 9.3 along with other activities like coal beneficiation and power generation etc can not be ruled out. This could lead to cumulative impact on environment.

(III) Environmental Sensitivity

S. No.	Areas	Name/ Identit y	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	None	Not applicable
2	Areas which are important or sensitive for ecological reasons -Wetlands,	None	Not applicable



watercourses or other water bodies, coastal zone, biospheres, mountains, forests 3 Areas used by protected, None Not applicable important sensitive or species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration 4 Inland, coastal, marine or None Not applicable underground waters 5 State, National boundaries None Not applicable 6 Not applicable Routes or facilities used by None the public for access to recreation or other tourist, pilgrim areas Defence installations Not applicable None 8 Densely populated or built-None Not applicable up area 9 Areas occupied by sensitive None Not applicable man-made land uses (hospitals, schools, places of worship, community facilities) 10 Areas containing important, None Not applicable high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals) 11 Areas already subjected to None Not applicable pollution or environmental damage. (those where existing legal environmental standards are exceeded) 12 Areas susceptible to natural None Not applicable hazard which could cause project present to environmental problems (earthquakes, subsidence, landslides, erosion, flooding adverse extreme or



	climatic conditions)			

(IV). Proposed Terms of Reference for EIA studies

- 1. Location map showing Project and Area boundary along-with major surface features like road, rail line, surface water bodies, pits etc.
- 2. The buffer zone will comprise of 10 km zone around the mine lease area.
- 3. Present land use of core zone and buffer zone.
- 4. Authenticated list of flora and fauna in the core and buffer zones.
- 5. A site plan showing the areas ear-marked for various components of the Project.
- 6. Justification for selection of mining technology proposed for this Project.
- 7. Description of the present environmental scenario based on one –season (non-monsoon) primary base-line data on Ambient Air Quality (PM10, PM2.5, SO₂, NO_X), Water Quality, Noise Level, Soil Characteristics, Flora & Fauna.
- 8. Details of Phusri village to be affected by mining activity and R&R action plan for PAFs.
- 9. Detailed Hydro-geological study to study the impact of the proposed mining activity on ground water resources.
- 10. Water balance study showing the impact of mine-pumping of ground water and its discharge into surface water bodies.
- 11. Prediction of impact on different components of environment inter-alia
 - i) Air including noise
 - ii) Water
 - iii) Soil
 - iv) Flora & Fauna
 - v) Socio-economic scenario
- 12. Impact due to blasting, noise and vibration & solid waste management.
- 13. Conceptual post-mining land-use and reclamation and rehabilitation of mined-out area (with plans and sections) and comparision between land-use during mining and post-mining.
- 14. Progressive green-belt development plan.
- 15. Environmental management plan for mitigation of impacts.
- 16. Detail of health-care facilities available for local population.
- 17. Safety and risk-analysis study.
- 18. Detail (including video-graphy of the proceedings) of Public-hearing and issues raised by the public.
- 19. Description of the technology used for mining and allied activities.
- 20. Detail of the coal handling and transportation.
- 21. Brief description of profiles of various agencies involved in the preparation of the EIA/EMP report.
- 22. Status of Forestry Clearance, Project Approval of CCL Board.
- 23. The generic structure suggested in EIA Notification, 2006 will be followed for preparation of EIA/EMP document.



I hereby give the undertaking that the data and information given in the application and enclosures 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.

Signature of the applicant with full name, official seal & address

HOD/DGM (E&F)
On Behalf of
Project Officer
Tapin South Project,

Hazaribagh Area, Central Coalfields Limited, PO - Tapin, Dist - Hazaribagh, Jharkhand. PIN- 825326

