

UPDATED FORM-I

(I) Basic Information

S.No.	Item	Details
1	Name of the project	Expansion of North Urimari OCP
	Salient Features	<p>North Urimari OCP is situated in South Karanpura Coalfield of Central Coalfields Limited at Hazaribagh district of Jharkhand State.</p> <p>The Project have been in operation since 1997-98 against the sanctioned scheme (Diary No.DT(P&P)/1716(i) dated 15/24.6.96.for producing coal at the rate of 0.5 MTY.</p> <p>The production of the project is 3.0 MTY having non-coking coal grade of 'G8' (GCV based classification of coal).</p>
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	Capacity – 4.2 MTY Lease Area- 523.06 Ha (including 18.92 Ha colony area which is outside of lease hold area) Balance Extractable Reserves - 80.81 MT.
4	New / Expansion / Modernization	Expansion under cl-7 ii of EIA Notification,2006.
5	Existing Capacity/Area etc	3.0 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	No

S.No.	Item	Details
	specific condition? If yes, Please specify	
9	Location	The Urimari Block is located on the Northern part of the South Karanpura Coalfield in Hazaribagh district. The Latitude & Longitude of the block are 23 ⁰ 41'04"N to 23 ⁰ 42'52"N and 85 ⁰ 16'06E to 85 ⁰ 19'36"E respectively. The block is covered in Survey of India toposheet no. 73 E/6 (in 1:50,000 scale).
	Plot / Survey / Khasra No	Survey of India topo sheet no. 73 E/6 (in 1:50,000 scale)
	Village	Urimari, Potanga, Sael, Sankul, Tonyatolli
	Tehsil	Barkagaon
	District	Hazaribagh
	State	Jharkhand
10	Nearest railway station / airport along with distance in kms.	Railway station Patratu (6.5 km), Air Port (Ranchi): 75 km
11	Nearest Town, city, District Headquarters along with distance in kms.	Nearest Town – Patratu Nearest City – HazariBagh District Headquarters - HazariBagh
12	Village Panchayats Zilla Parishad Municipal Corporation, Local body (complete postal Addresses with telephone nos. to be given)	Urimari is a census town in Barkagaon CD Block in Hazaribagh Sadar subdivision, Jharkhand.
13	Name of the applicants	General Manager (Mining)/ Project Officer, North Urimari OCP, Central Coalfields Limited.
14	Registered Address	North Urimari OCP, Barka Sayal Area, Central Coalfields Limited, PO Urimari, Dist Hazaribagh , Jharkhand. PIN- 825301
15	Address for correspondence:	

S.No.	Item	Details
	Name	Soumitra Singh
	Designation (Owner / Partner / CEO)	Deputy General Manager (Env & Forest),
	Address	Central Coalfields Limited, Darbhanga House, PO- Ranchi, Dist : Ranchi, Jharkhand.
	Pin Code	834001
	E-mail	envccl@gmail.com
	Telephone No.	0651-2360184
	Fax No.	0651-2360010
16	Details of Alternative Sites examined, if any, Location of these sites should be shown on a topo sheet	Not Applicable. Coal mining project is site specific depending on favorable geo-mining conditions.
17	Interlinked Projects	None.
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 proposal involves approval / clearance under The Forest (Conservation) Act, 1980 The Wildlife (Protection) Act, 1972 The CRZ Notification, 1991	Yes No No
22	Whether there is any Government Order/ Policy relevant/relating to the site	No
23	Forest land involved	Total Forest land involved in project area, 226.51

S.No.	Item	Details
	(hectares)	Ha has been acquired (Stage II) vide letter no: F. No. 8-54/2008-FC Dt. 03.08.2011.
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

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	<p>Change in the land use due to mining operation & infrastructure development.</p> <table border="1" data-bbox="846 474 1536 1436"> <thead> <tr> <th>Description</th> <th>Forest in Ha</th> <th>GMK JJ in Ha</th> <th>Non Forest (Tenancy+GMK) Ha</th> <th>Total Area in Ha.</th> </tr> </thead> <tbody> <tr> <td>Quarry</td> <td>43.95</td> <td>75.34</td> <td>135.11</td> <td>254.4</td> </tr> <tr> <td>External OB dump</td> <td>12.47</td> <td>72.56</td> <td>83.91</td> <td>168.95</td> </tr> <tr> <td>Safety Zone</td> <td>0.95</td> <td>13.60</td> <td>29.74</td> <td>44.28</td> </tr> <tr> <td>Haul road</td> <td></td> <td>2.8</td> <td>1.70</td> <td>4.5</td> </tr> <tr> <td>Nalla diversion and garland drain</td> <td>0.31</td> <td></td> <td>10.28</td> <td>10.59</td> </tr> <tr> <td>Space for industrial construction</td> <td></td> <td>4.53</td> <td>16.89</td> <td>21.42</td> </tr> <tr> <td>Total leasehold boundary area</td> <td></td> <td></td> <td></td> <td>504.14</td> </tr> <tr> <td>* Colony area</td> <td></td> <td></td> <td>18.92</td> <td>18.92</td> </tr> <tr> <td>Total Land</td> <td>57.68</td> <td>168.83</td> <td>296.55</td> <td>523.06</td> </tr> </tbody> </table>	Description	Forest in Ha	GMK JJ in Ha	Non Forest (Tenancy+GMK) Ha	Total Area in Ha.	Quarry	43.95	75.34	135.11	254.4	External OB dump	12.47	72.56	83.91	168.95	Safety Zone	0.95	13.60	29.74	44.28	Haul road		2.8	1.70	4.5	Nalla diversion and garland drain	0.31		10.28	10.59	Space for industrial construction		4.53	16.89	21.42	Total leasehold boundary area				504.14	* Colony area			18.92	18.92	Total Land	57.68	168.83	296.55	523.06
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S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.2	Clearance of existing land, vegetation and buildings?	Yes	In view of proposed mining activity and development of adjoining infrastructure, clearance of existing land, vegetation and buildings is expected.
1.3	Creation of new land uses?	Yes	The mining activity and infrastructure development changes the present land use.
1.4	Pre-construction investigations e.g. bore holes, soil testing?	No	Not applicable
1.5	Construction works?	No	Construction of field workshop, Sub-station, statutory buildings, etc has been taken place. Approach road already exists. So no major construction is anticipated.
1.6	Demolition works?	Yes	Clearance of existing land and vegetation for mining purpose is expected.
1.7	Temporary sites used for construction works or housing of construction workers?	No	The existing infrastructure is sufficient for this purpose.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	No	Field workshop, Sub-station, statutory buildings, roads exist.
1.9	Underground works including mining or tunneling?	No	Not applicable
1.10	Reclamation works?	Yes	Land reclamation followed by biological reclamation of backfilled quarry area & external dump. The reclamation activities will be carried out as per the post mining landuse/ reclamation plan.
1.11	Dredging?	No	Not applicable.
1.12	Offshore structures?	No	Not applicable.
1.13	Production and manufacturing processes?	Yes	Coal production by opencast method using shovel-dumper combination.
1.14	Facilities for storage of goods or materials?	Yes	At present, the coal from this project is being transported to Saunda D railway siding which is at a distance of 12 kms from the face of the quarry by

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			<p>tipping trucks.</p> <p>Also, a proposal for construction of 'North Urimari Railway siding is under process. Rites has started the work of Railway Siding.</p>
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>Solid wastes that will be generated in course of coal mining are overburden material 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.</p> <p>The total volume of overburden is estimated as 136.60 M.cum.</p>
1.16	Facilities for long term housing of operational workers?	No	Existing available quarters are sufficient to accommodate the proposed man power. So no extra quarters would be required.
1.17	New road, rail or sea traffic during construction or operation?	No	Not applicable
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	Not applicable.
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	Yes	Potanga Nala is proposed to be diverted.

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	hydrology of watercourses or aquifers?		
1.22	Stream crossings?	Yes	Potanga Nala.
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	<p>In the opencast mine, the different aquifers overlying the working coal seam would be contributing ground water to the mine by gravity drainage since they are exposed/removed at the mine. As such due to this pumping/gravity drainage, cone of depression would be formed.</p> <p>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.</p>
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	Yes	<p>A local change in ground topography will be created due to mining operation such as open pit, dumps of overburden and coal etc. As a result, there would be change in the drainage and surface run-off.</p> <p>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, the final void would store substantial quantity of rainwater, which can be utilized 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.</p>
1.25	Transport of personnel or materials for	Yes	At present, the coal from this project is being transported to Saunda D railway siding which is at

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	construction, operation or decommissioning?		a distance of 12 kms from the face of the quarry by tipping trucks. Also, a proposal for construction of 'North Urimari Railway siding is under process. Rites has started the work of 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, substations, pump house, filtration plant for providing basic amenities to workers will be maintained till the employees are required to stay. Service buildings namely, 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 may 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)	No	Not applicable
2.2	Water (expected source & competing users) unit: KLD	Yes	An elaborate water supply & sewerage arrangements have been envisaged for the project & colony. The total water demand is 1146.8 m ³ /day ,out of which 917 m ³ /day is utilized for domestic and industrial purposes while rest 229.8 m ³ /day is used for storage.
2.3	Minerals (MT)	No	Not Applicable.
2.4	Construction material, stone, aggregates and soil (expected source – MT)	No	Not Applicable.
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	Total annual power requirement is 2000KVA.Source of power is DVC sub station.
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)	No	Spent / burnt oil and oil soaked filters, old batteries. The aforesaid are being taken care of as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and sent to stores for disposal through authorized agents.
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	The project has positive impact on the welfare of people.
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	Solid wastes that will be generated in course of coal mining are overburden material 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. The total volume of overburden is

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
			estimated as 136.60 M.cum.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Generated municipal waste generated will be disposed off as per provisions of municipal solid waste management & handling rules. Domestic Waste in colony is treated in septic tank-cum-soak pit. No commercial waste is generated.
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	Being treated in septic tank-cum-soak pit.
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	The redundant machineries or equipment will be transferred to other collieries where required. If they have outlived this working life, they will be surveyed off and disposed off as per Company's Rule
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 sources.	Yes	Diesel equipment will be maintained to comply with the emission norms. The SO ₂ & NO _X from diesel operated Tippers are insignificant.
5.2	Emissions from production processes	Yes	Suspended Particulate Matter (SPM) is being taken care of with water sprinkling to keep the level within permissible limit. As per the records of existing mines the level of pollutants are well within limit of Central Pollution Control Board (CPCB) standard.
5.3	Emissions from materials handling including storage or transport	Yes	Suspended Particulate Matter (SPM) & Respiratory Particulate Matter (RPM) get generated from coal transportation. They are taken care of by water sprinkling on the transport routes.
5.4	Emissions from construction activities including plant and equipment	Yes	Adequate measures shall be taken to mitigate the impacts due to dust emission. However no major construction work is proposed.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust gets generated during drilling, blasting, transportation, loading, unloading etc. Water sprinkling is done to prevent the dust from becoming air borne.
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. 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 day-time 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.(Source- Project Report)
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	Spent / burnt oil and oil soaked filters, old batteries. The aforesaid are being taken care of as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and sent to stores for disposal through

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
			authorized agents.
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.
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 buildup 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	1) Slope failure in OB Dump and mine Pit 2) Mine inundation 3) Blasting 4) Fire in coal or shale dump 5) Strata control in underground workings

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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.: <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 	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.
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 North Urimari OCP. As such, the likelihood of

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			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 South Karanpura 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 cannot be ruled out. This could lead to cumulative impact on environment.

(III) Environmental Sensitivity

S. 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	Not Applicable
2	Areas which are important or sensitive for ecological reasons -Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	No	There are no such areas in core zone. River Damodar and Aswa Protected forest falls in the buffer zone.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	There are no such areas in core zone. River Damodar and Aswa Protected forest falls in the buffer zone.
4	Inland, coastal, marine or underground waters	No	There are no such areas in core zone. River Damodar and Aswa Protected forest

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
			falls in the buffer zone.
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	No	There are no such areas in core zone.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	No	There are no such areas in core zone. Buffer zone consists of schools, hospitals etc in the villages Potanga, Sael, Sankul, Tonyatolli
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Not applicable
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