



MCL

Pre-Bid Conference

**Mine Developer cum Operator
for Bhubaneswari Expansion OCP**

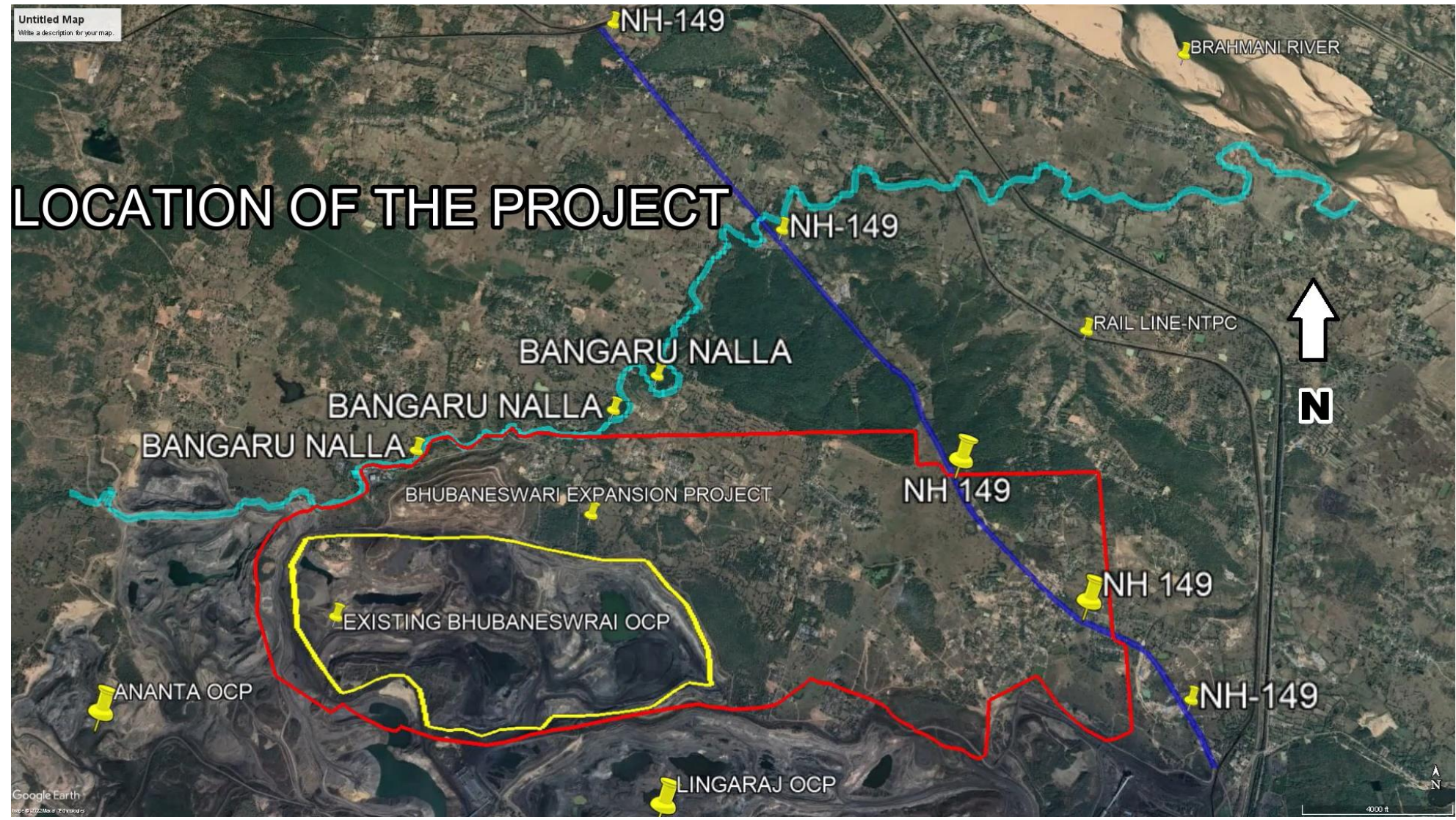
Development and Operation of Bhubaneswari Expansion OCP

(Bhubaneswari, Arkapal-A & Sakhigopal-A Blocks)

as per Part-II (scope of the Project) of Contract Agreement and other requirements specified in the Contract Agreement under

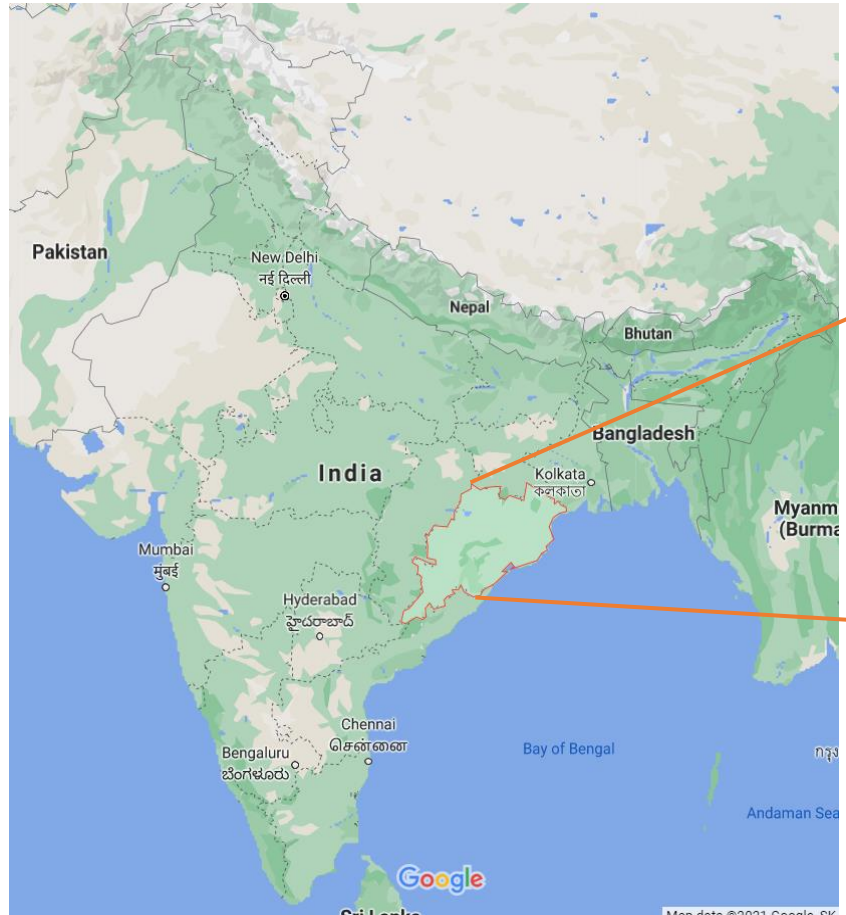
NIT-177, Dated. 12.09.2022

Brief Presentation Video



Location

India



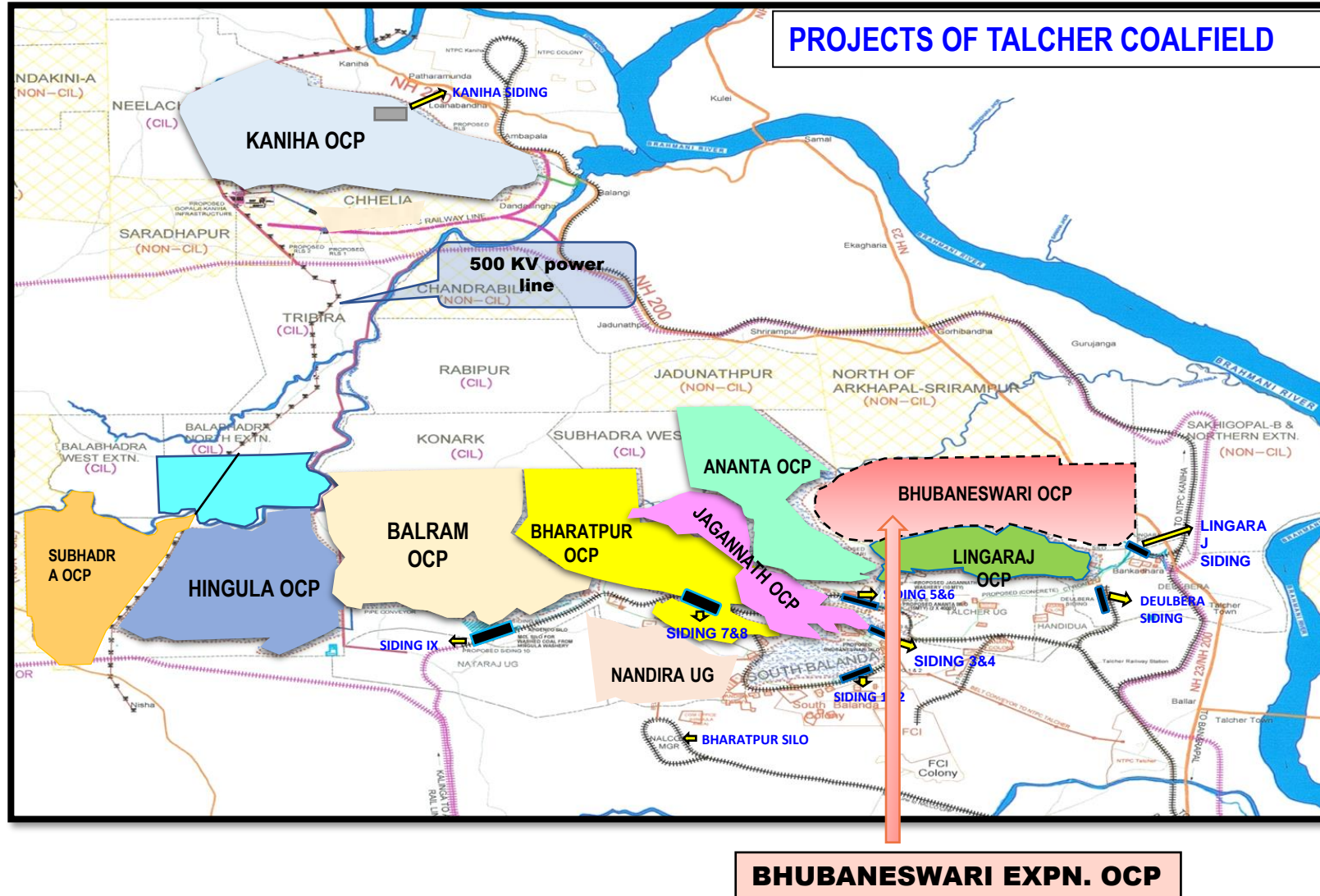
Odisha



Angul District



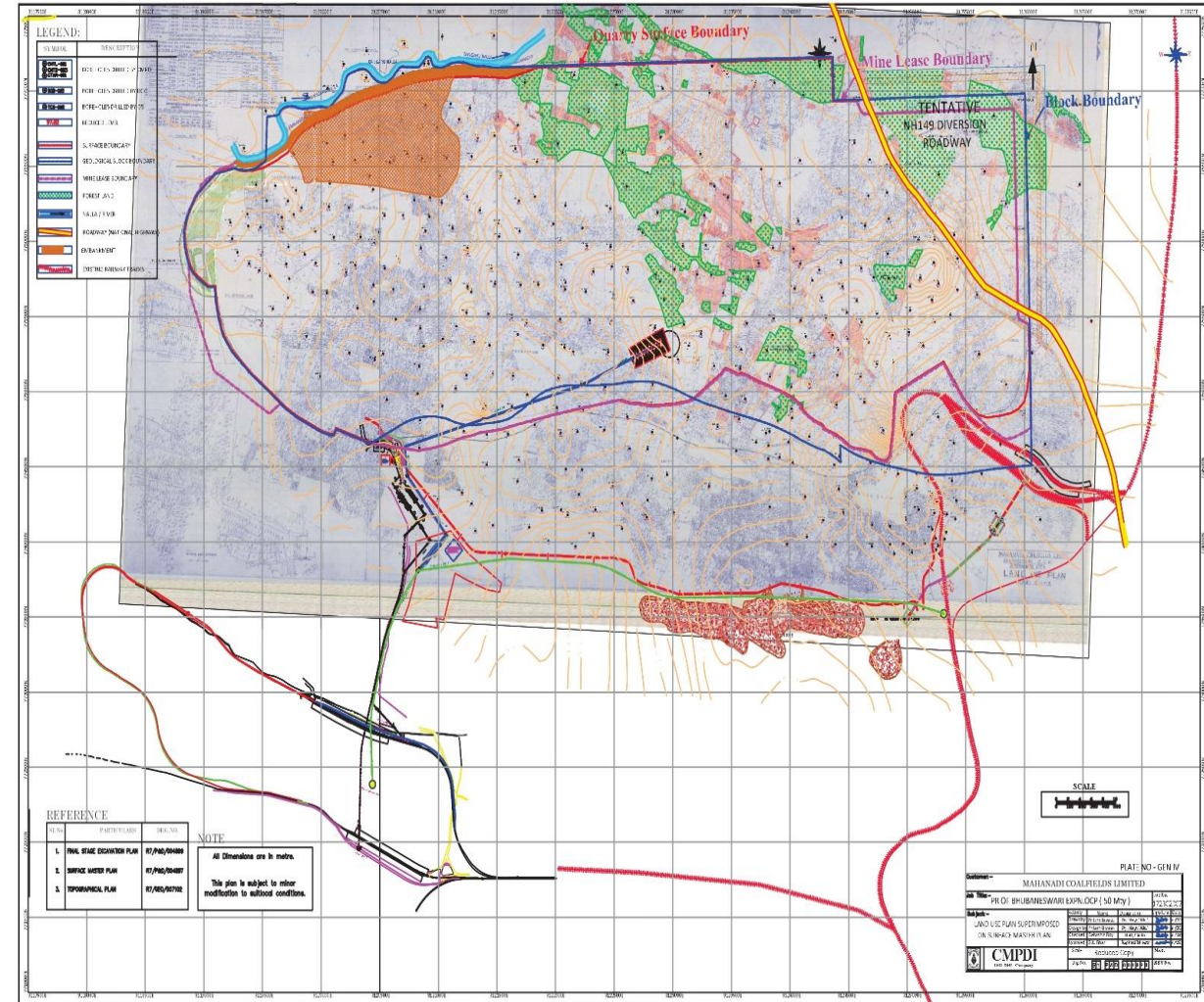
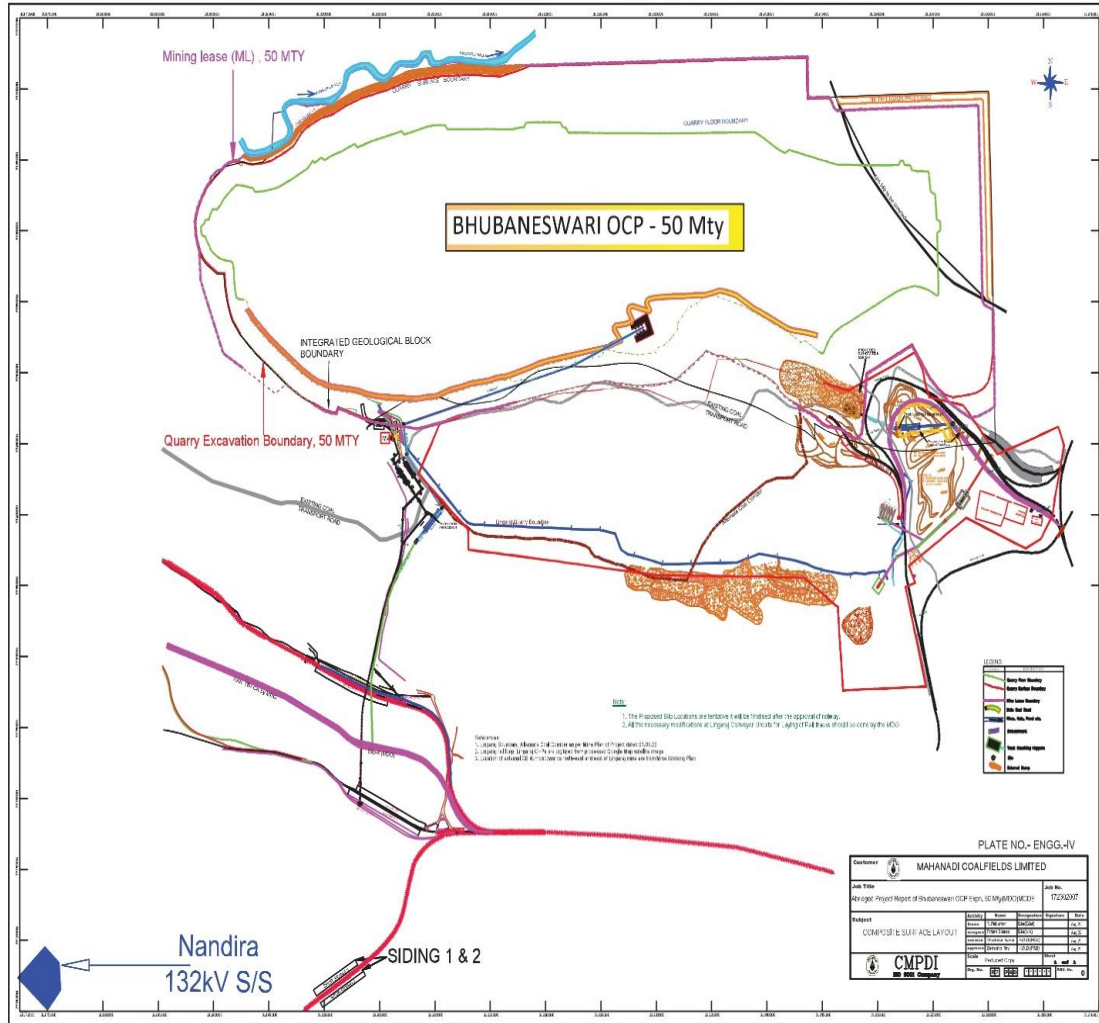
Block Location Plan - Bhubaneswari Expansion OCP

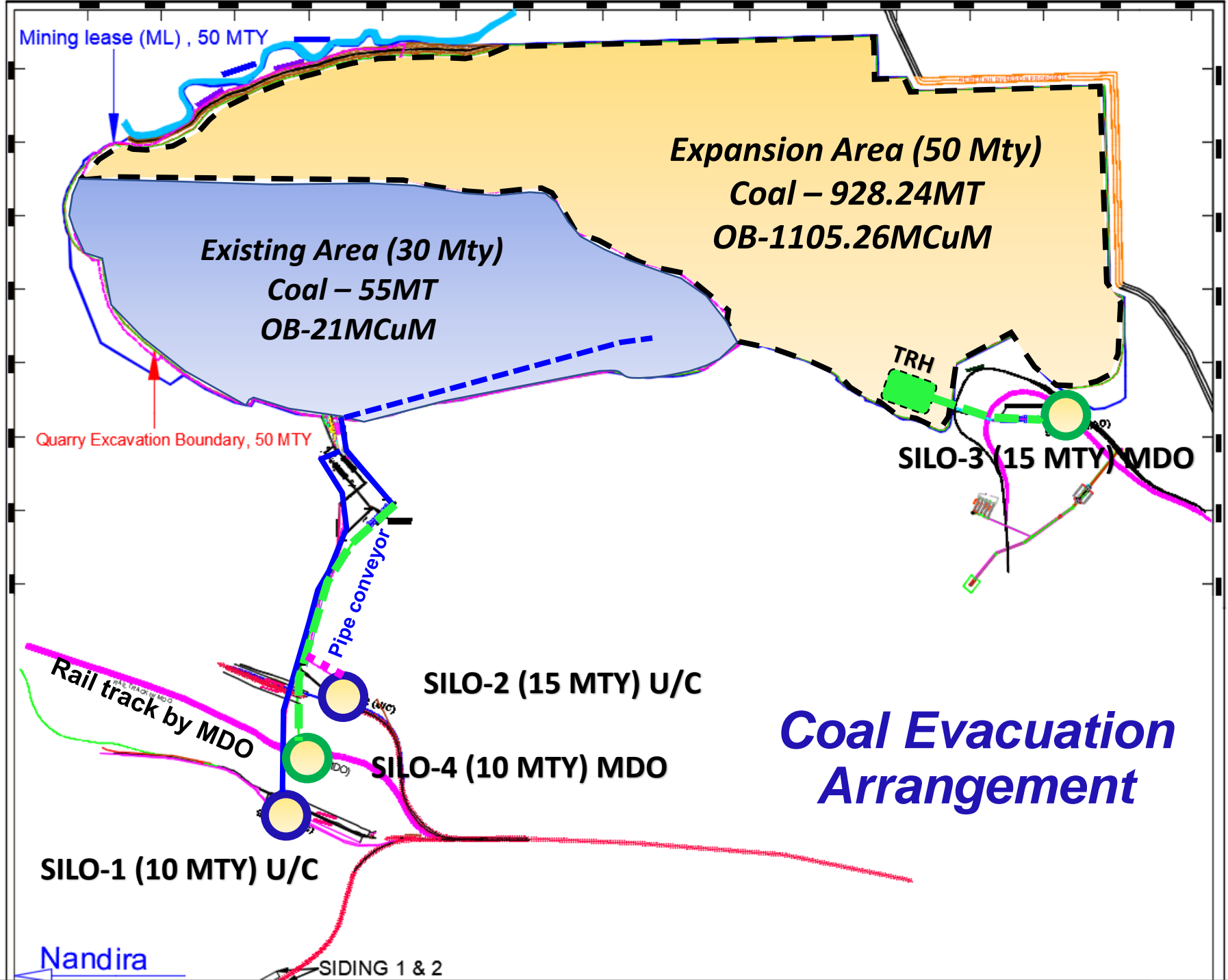


Block Location Plan - Bhubaneswari Expansion OCP



Surface Master Plan - Bhubaneswari Expansion OCP





Salient points of Bhubaneswari Expansion OCP

Salient points of Bhubaneswari Expansion OCP

Particulars	Values (As per Expn. PR, 50 Mty)
Mineable reserves (as on 01.04.2022)	1013.24 Mt
Overburden (including Rehandling 54.99 Mcum)	1200.25 Mcum
Average Stripping ratio	1.18 cum/t
No. of workable seams/sections	17/30
General seam gradient / Dip	Around 2° to 7°
Total Coal Thickness (Average)	Around 109.70 m
Coal Quality	Mostly G9-G12 (average: G11)
Annual capacity (normative)	50 Mty
Life of quarry (as on 01.04.2022)	24 years
Full Production at a capacity of 50 Mty	14 years
Quarry depth (max)	302.50 m

Salient points of Bhubaneswari Expansion OCP MDO Contract

Particulars	Values
Coal quantity for MDO	928.24 Mill. Te. (peak 50 MTY)
Overburden quantity for MDO	1105.26 Mill. Cu.M. (peak 62.25 MCuMY)
Average Stripping ratio	1.19 cum/t
Estimated Project Cost (MDO Component)	3826.014 Crore
Life of quarry / Contract period (MDO)	22 years

Salient points of Bhubaneswari Expansion OCP

- New MDO contract to be executed in two parts i.e., for existing area & expansion area

Particulars	Existing Area	Expansion Area
Quantum of Work	Coal – 55 MT OB – 21 MCuM	Coal – 928.24 MT OB – 1105.26 MCuM
Period of Work	02 Years (2023-24 to 2024-25)	22 Years (2024-25 to 2046-47)
Basis of Payment	Agreed Rate @85% of SOR rate of MCL	Mining Charge

Annual Coal Production Programme & Schedule for Removal of Overburden

Existing Patch

Year	Coal (MT)	OB (MCu.M)
2023-24	30	15
2024-25	25	6
Total	55	21



Expansion Area

Accounting Year	Coal (MT)	OB (MCu.M)
Year 1	5	28.89
Year 2	32	44.80
Year 3	35	44.08
Year 4	40	48.03
Year 5	45	48.61
Year 6 to 19	50 X 14 = 700	823.13
Year 20	35	41.90
Year 21	23	20.14
Year 22	13.24	5.68
TOTAL	928.24	1105.26

Despatch Matrix

Existing Patch

Year	Silo Ph-I (10 MTY)	Silo Ph-II (15 MTY)	Railway Sidings	Stock	Total Quantity
Year-1 (2023-24)	7 MT	Nil	20 MT	3 MT	30 MT
Year-2 (2024-25)	7 MT	7 MT	7 MT	4 MT	25 MT
Total					55 MT

Expansion Area

Accounting Year	Railway Sidings	Silo Ph-I (10 MTY)	Silo Ph-II (15 MTY)	Silo Ph-III (15 MTY)	Silo-Ph-IV (10 MTY)	Total Quantity
Year-1 (2024-25)	-	5 MT		-	-	5 MT
Year-2 (2025-26)	7 MT	10 MT	15 MT	-	-	32 MT
Year-3 (2026-27)	7 MT	10 MT	15 MT	3 MT	-	35 MT
Year-4 (2027-28)	-	10 MT	15 MT	15 MT	-	40 MT
Year-5 (2028-29)	-	10 MT	15 MT	15 MT	5 MT	45 MT
Year-6 (2029-30) to 19 (2042-43)	-	10 MT	15 MT	15 MT	10 MT	50 MT
Year-20 (2043-44)	-	-	10 MT	15 MT	10 MT	35 MT
Year-21 (2044-45)	-	-	-	13 MT	10 MT	23 MT
Year-22 (2045-46)	-	-	-	3.24 MT	10 MT	13.24 MT

Annual Coal Production Programme & Schedule for Removal of Overburden

Accounting Year	Coal to be delivered (in M. Te.)	Overburden to be removed (in M. Cu.M.)
Year 1	5.00	28.89
Year 2	32.00	44.80
Year 3	35.00	44.08
Year 4	40.00	48.03
Year 5	45.00	48.61
Year 6	50.00	56.82
Year 7	50.00	56.82
Year 8	50.00	56.82
Year 9	50.00	56.82
Year 10	50.00	60.35
Year 11	50.00	58.44
Year 12	50.00	58.43
Year 13	50.00	58.43
Year 14	50.00	58.43
Year 15	50.00	58.43
Year 16	50.00	58.47
Year 17	50.00	60.37
Year 18	50.00	62.25
Year 19	50.00	62.25
Year 20	35.00	41.90
Year 21	23.00	20.14
Year 22	13.24	5.68
TOTAL	928.24	1105.26

Production built up:

year	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5	Yr-6
Coal(MT)	5	32	35	40	45	50
OB(MCuM)	28.89	44.80	44.08	48.03	48.61	56.82

Major Equipments:

Equipment for OB	Population	Equipment for Coal	Population
Hydraulic Shovel (10-12 Cum)	10	Surface Miner (900-1100 H.P.)	14
Hydraulic Shovel (5.5-6.5 Cum)	13	Front End Loader (5-7 Cum)	16
Rear Dumper (100 T)	94	Rear Dumper (60 T)	102
Rear Dumper (60 T)	106		

Brief Tender Details

Tender Publication Details

The Tender was published on the Coal India e-Procurement Portal on the website

<https://coalindiatenders.nic.in> and mirrored in the Central Public Procurement Portal (<https://eprocure.gov.in>)

Time Schedule:

A) Tender e-Publication date	12.09.2022	12:30
B) Document download start date	12.09.2022	13:00
C) Document download end date	11.11.2022	17:00
D) Date of Pre-bid Meeting	26.09.2022	11:00
E) Bid Submission start date	27.09.2022	10:00
F) Bid submission end date	11.11.2022	17:00
G) Start date for seeking Clarification on-line	13.09.2022	10:00
H) Last date for seeking Clarification on-line	22.10.2022	17:00
I) Part-I/Technical Bid Opening date	14.11.2022	11:00

Eligibility Criteria

Technical Capacity

For demonstrating its technical capacity and experience (the “Technical Capacity”), the Bidder shall have carried out, for itself or as a **contractor or sub-contractor**, ‘**excavation and transportation**’ of **Overburden by mechanized means** and/or ‘excavation and transportation’ of coal/ lignite/ iron ore/ bauxite/ manganese ore/ copper ore by mechanized means **during the past 7 (seven) years** ending on the last day of the **August 2022**, such that the total composite volume of such ‘excavation and transportation’ during any period of 1 (one) year (consecutive 365 days) (the “qualifying period”) during the aforesaid period of 7 (seven) years is more than **25 million cubic meter** (the “qualifying quantity”), **from maximum 5 (five) opencast mines** of coal/ lignite/ iron/ bauxite/ manganese/ copper; provided that the **quantity handled in at least one mine should not be less than 10 million cubic meter**.

For the purpose of the Bid, the specific gravity of coal, lignite, iron ore, bauxite, manganese ore and copper ore shall be considered as [1.6], [1.15], [4.0], [2.4], [3.7] and [3.0], respectively.

Financial Capacity

- 1) The Bidder shall have a minimum average **Total Income** during **the 3 (three) financial years as chosen by the Bidder from the 4 (four) immediately preceding completed consecutive financial years as on date of invitation of Bids**, of **Rs. 1147.804 crores** (Rupees one thousand one hundred forty seven crores and eighty lakh forty thousand) and
- 2) a minimum **Net Worth** of **Rs. 382.601 crores** (Rupees three hundred eighty two crores and sixty lakh ten thousand) at the **close of the latest financial year among the 3 (three) financial years chosen by the Bidder** (the “**Financial Capacity**”).

Brief description of the Bidding Process

- ❑ The Authority has adopted a single stage two-part process (referred to as the “Bidding Process”) for award of the Project to the Successful Bidder.
- ❑ All the Bids are to be submitted online and on the website [<http://www.coalindiatenders.nic.in>].
- ❑ The Bidders are to submit offers in 2 (two) parts in the links “Part-I/ Cover I” and “Part-II/ Cover II” as follows:
 - ❑ **Part-I/ Cover I:**
 - 1. Bidder’s Covering Letter;
 - 2. Details of Bid Security;
 - 3. Information on qualifying criteria as detailed at Paragraph 9 and Paragraph 10 of NIT including necessary scanned documents as elaborated there.
 - ❑ **Part-II/ Cover II:**
 - Price Bid in Excel format.
- ❑ No Bid shall be accepted offline.

Part-I/ Cover I (Technical Bid):

Sl. No.	Descriptions
1	TPS in Excel format

CONFIRMATORY DOCUMENTS (self-certified and notarized copies in PDF Format)

Sl. No.	Descriptions
1	Bidders Covering Letter and acceptance of bid conditions (Ref. Cl. 10(1) of NIT)
2	Technical Capacity (Ref. Clause No. 9.1 and Cl.10(2) of NIT and 2.2.2 of RFB)
3	Financial Capacity (Ref. Clause No. 9.2 and Cl.10(3) of NIT and 2.2.3 of RFB)
4	Integrity pact (Ref. Clause No.10(4) of NIT and as per Appendix VIII of RFB)
5	Authorization for Digital Signature Certificate (DSC) (Ref. Cl. 10(5) of NIT)
6	Undertaking as per Cl. 10(6) of NIT and as per Enclosure-I of NIT
7	Legal Status of the bidder (Ref. Clause 10, OID Sl. No.1 of NIT)
8	Power of attorney (Ref. Clause 10, OID Sl. No. 2 of NIT)
9	Joint Operating Agreement (JOA) (Ref. Clause 10, OID Sl. No.3 of NIT)
10	Mandate Form for Electronic

Part-II/ Cover II (Financial Bid):

Sl. No.	Descriptions
1	Price Bid in Excel format

To be ensured before Bid Submission

1. Financial Capacity (Ref. Clause No. 9.2 and Cl.10(3) of NIT and 2.2.3 of RFB)
 1. **CA certificate specifying the Net Worth** of the Bidder as at the close of the latest financial year out of the 3 (three) financial years chosen by the Bidder and also **specifying the methodology adopted for calculating such Net Worth** in accordance with Paragraph 9.2 of NIT.
 2. **CA certificate specifying the average Total Income of the Bidder** of 3 (three) financial years, as chosen by the Bidder and also **specifying the methodology adopted for calculating such average Total Income.**
 3. Audited annual reports of the Bidder for the 3 (three) financial years, as chosen by the Bidder, comprising of the audited balance sheets and profit and loss accounts of the Bidder.
 4. A duly filled in Annex III (provided at Appendix I of RFB).
2. All documents to be uploaded shall be self-certified and notarized.
3. The DSC to be used for Bidding should be in the name of Authorized Person.
4. If, there are any difference in names of Authorized Persons/Signatories in any of the documents.

Scope of Work

Brief Scope of work

Existing Area

1. OB removal
2. Blasting including supply of explosives
3. Extraction of coal
4. Loading and transportation of coal
5. Wagon Loading
6. Loading of Trucks/Tippers
7. Pumping
8. Illumination

Scope of work

- i. Guaranteed coal production at designated grade and size and OB removal as per the Mining Schedule.
- ii. Undertake the activity for physical possession of land for achieving coal production as per Article 21.
- iii. Preparation and approval of Rehabilitation & Resettlement Plan.
- iv. Execute Rehabilitation & Resettlement of Project Affected persons as Pure Agent.
- v. Carry out drilling and blasting operations as approved from DGMS and adhering to all statutory guidelines. Supply of explosive as per the requirement.
- vi. Deployment of statutory and supervisory manpower.
- vii. Procurement, operation & maintenance of equipment required for target coal production and OB removal.
- viii. Construction and maintenance of workshop, store, office and other infrastructure for the HEMM deployed by the Mine Operator.
- ix. Construction, operation & maintenance of 1 no. 33/6.6 KV Substation drawing power from 120 MVA, 132/33 kV central substation of MCL at Nandira through single circuit OHTL & additional taping arrangement to existing 33 KV Substation located at Bhubaneswari OCP. The length of Power transmission line from Nandira Substation to Bhubaneswari Expansion Project (located near Railway line bulb of Lingaraj OCP) is approximately 16 KM.

Scope of work Continued

- x. Drawing of power at 6.6 KV from existing & new substation (to be constructed by MDO) through 6.6 KV OHTL to mine & CHP operations with proper metering arrangement.
- xi. The mine operator will have to construct CHP substations and other power supply/distribution system for the purpose of the contracted work. The mine operator will have to obtain all necessary approvals for installation, commissioning, operation and maintenance of substations and other electrical installations from the DGMS. The mine operator shall indicate in detail the power supply requirement with single line electrical diagram as per contract.
- xii. Design, construction, operation and maintenance of haul road, dozing & grading wherever necessary.
- xiii. Installation and maintenance of pumps, pipes, fittings. Control of mine water discharge as per statute.
- xiv. Effective dust suppression measures, quarry & surface lighting, pumping, stock maintenance and other ancillary activities.
- xv. Illumination of quarry, stock yard, roads and other places of work as per statute to be ensured at all operational sites. Illumination for security of the mines and installations.
- xvi. Reclamation along with Environmental Management and monitoring as per approved Mining Plan/EMP.

Scope of work Continued



- xvii. Engage manpower for maintenance and operation on its own terms and conditions, with the expressed and clear understanding that this manpower will have no legal right to employment or any other benefit/s in MCL during or at the end of the agreement's term. Salary and wages, provident fund, gratuity, health care, and compensation to its workforce shall be in accordance with the High Power Committee (HPC) wages, the Coal Mines Provident Fund and Miscellaneous Provisions Act 1948 and its amendments, the Coal Mines Pension Scheme-1998 and its amendments (CMPS), and other statutory Rules and Regulations applicable to coal mining.
- xviii. Safe conduct of mining operations including ensuring safety of the workforce deployed.
- xix. Deployment of adequately qualified, skilled and trained manpower and imparting periodic training as per statute.
- xx. Financing of proposed works as per the contract.
- xxi. Design, build, construction, operation and maintenance of the CHP from receiving hopper (CHP) within mine upto SILO loading system onto railway wagons. An additional 25 Mty of coal will be transported by two different dispatch arrangements of 15 Mty and 10 Mty, to be named Phase-III & Phase-IV respectively.

Scope of work Continued



- xxii. Phase-III: 15 Mty of coal will be dispatched through CHP with Silo-III located near existing Lingaraj Silo with a new rail loop within the existing loop. 12 Mty will be dispatched by silo onto rail wagons and 3 Mty by hoppers onto trucks for local sale.
- xxiii. Phase-IV: CHP with in-pit receiving arrangement and dispatch the balance 10 Mty coal through Silo-IV, located in between quarry IV & VII of Jagannath OCP, near existing spur sidings IV & V.
- xxiv. Phase-I & II CHP & silo loading arrangement for 25 Mty is under construction by MCL. The same will be operated and maintained by MCL through outsourced agencies/turnkey contractors till Sep-2028. From Oct-2028, the Coal Handling Plant will be handed over to MDO on As is where is basis.

From October-2028 Operation & maintenance of Silo/RLS Phase-I/II including maintenance of railway infrastructure (track, OHE and S&T) will be responsibility of Mine Operator.

Maintenance cost towards rail infrastructure (track, OHE and S&T) shall be borne by the Mine Operator and will not be reimbursed to the Mine Operator.

- xxv. Construction of additional railway connectivity & associated infrastructure for Phase-III/IV CHP/Silo/RLS for loading arrangement.

The tentative route length for Phase-III Silo (15 Mty) near existing Lingaraj Silo is 2.5 Km and track length is approx. 8 Km.

Scope of work Continued



The tentative route length for Phase-IV Silo (10 Mty) located in between quarry IV & VII of Jagannath OCP, near existing spur sidings IV & V is 3 Km and track length is approximately 12 KM.

Maintenance cost towards rail infrastructure (track, OHE and S&T) shall be borne by the Mine Operator from the date of commissioning of Silo/RLS Phase-III/IV and will not be reimbursed to the Mine Operator.

- xxvi. Diversion of village road with all the allied activities.
- xxvii. Embankment with a height of 3 m above HFL along Bangaru Jhor.
- xxviii. Garland drain along periphery of the work areas.
- xxix. Ensuring safety due to fire and provisions of firefighting at all places of the mine including stock railway siding, CHP, Silo, RLS etc.
- xxx. Water supply arrangement for industrial and domestic use for both MCL & MDO including residential complex.
- xxxi. Effective dust suppression arrangement using all modern and state of art technologies to comply with the statutory Air pollution norms at all points of production, transportation and dispatch proper lighting and illumination as per statute to be ensured at all operational sites.
- xxxii. Arrangement of digital surveillance system like OITDS, CCTV camera, PTZ camera with centralized control room.

Scope of work Continued



- xxxiii. Arrangement of proper security system for ensuring no pilferage/theft of coal from any point.
- xxxiv. Design, construction, and maintenance of service building and residential building for both MDO and MCL.
- xxxv. All mine developmental works including construction of road and culverts, bridges etc.
- xxxvi. Preparation of Wildlife Conservation Plan.
- xxxvii. Socio-economic Survey of affected villages.
- xxxviii. Obtaining CTE and CTO from SPCB
- xxxix. Any other study required by MoEF, SPCB, CPCB and other statutory body in connection with EC & FC.
- xl. Procurement of Environment clearance including public hearing and all other activities including various studies, survey, scientific investigation, SIA, EIA, EMP, preparation of various plans/reports or any assessment for fulfilling the requirements of any statutory authority for compliance of terms of reference (“ToR”), Public consultation etc. for procurement of Environmental Clearance and subsequent amendment & enhancement of EC.
- xli. Procurement of Forest clearance (Stage-I and Stage-II) including tree enumeration, pallisabha for obtaining NoC from Collector under FRA-2006 and all other activities including DGPS survey of CA land, including submission of online applications with the MoEF, Govt of India from grass root level to ministry.

Scope of work Continued

- xlii. Diversion of NH-149 passing through the northeast corner of the project area. The same is to be diverted along the north-eastern boundary of the block. The surface boundary of the quarry will be kept at a safe distance from the highway as per the latest guidelines of the Statutory Authority.
- xliii. Installation of weighbridges matching with coal transportation fleet for 100% weighment at incoming and outgoing ends of coal stockyard(s) and incoming ends of railway siding(s) and TRH of RLS/CHP of Silos.
- xliv. Execution of work at existing patch of Bhubaneswari OCP by the successful bidder at Agreed Rate as per the Part-I Agreement and the same is not covered under Mining Charge as per clause 28.1.1 of MCA. The work at existing patch of Bhubaneswari OCP shall commence as per Part-I agreement. Cancellation or delay in executing the work at existing patch of Bhubaneswari OCP due to fault attributable to the successful bidder may attract cancellation of whole Contract i.e., Contract under Part-I Agreement and Contract under MCA. All terms & conditions, quantities, rate and Contract value applicable only for existing patch of Bhubaneswari OCP shall be as per Part-I Agreement
- xliv. The successful bidder shall execute the part-I Agreement for working at the existing patch of Bhubaneswari OCP. Part-I Agreement shall have effect until execution of Contract Agreement and execution of subsequent supplementary Agreement with SPV in respect to the Part-I Agreement, if the successful bidder and the Authority has entered into any Agreement prior to the formation of SPV.

Monitoring of Project Milestones

Project Milestones	Activities	From Appointed Date	Capital Investment in %ge of Assessed Project Cost
I	Commencement of construction of Service Building, Residential Building, development of the Mines, Rail Connectivity to Silo phase-III (15 MTY) and construction of CHP/Silo for loading into railway wagons etc. Completion of construction/commissioning of overhead 33KV power line (Nandira to mine) along with Substation-II, haul/approach roads, Substation-II, power distribution system, effluent treatment system, drainage system, deployed HEMMs for required production level etc.	1 st Year (365 days)	39.06
II	Commencement of construction of Rail Connectivity to Silo phase-IV (10 MTY) and construction of CHP/Silo phase-IV, residential Buildings, haul/approach roads, power distribution substation/system, diversion of village roads/seasonal streams passing through the coal block etc. Completion of construction/commissioning of Rail Connectivity to Silo phase-III (15 MTY) and construction/commissioning of CHP/Silo for loading into railway wagons, Service Building, deployed HEMMs for required production level etc.	2 nd Year (730 days)	63.65
III	Completion of construction/commissioning of Rail Connectivity to Silo phase-IV (10 MTY) and construction/commissioning of CHP/Silo of Phase-IV (10 MTY) for loading into railway wagons, deployed HEMMs for required production level, Development activity etc.	3 rd Year (1095 days)	80.98
IV	Completion of construction of Residential Building, deployed HEMMs as required for peak production level (50 MTY), Development activity etc.	4 th Year (1460 days)	92.91
V	Completion of the diversion of NH-149 passing through the northeast corner of the project area.	10 th Year (3650 days)	-

Present Status



1. EC available 30 MTY. EC granted on 25.07.2022 for increase in production capacity from 28 MTPA to 30 MTPA in the existing patch consisting land area of 638.341 Ha.
2. FC for 20.38 Ha - online application done 30.04.22, hard copy submitted to DFO, Angul on 22.08.22 with all compliances.
3. Present status of land acquisition-
 - Total Land requirement - 1682.16 Ha.
 - Land Acquired as on 01.04.2022 - 952.32 Ha.
 - Notifications under CBA- u/s 4(1) issued for 729.84 Ha. land on 17.06.2022.
 - DGPS survey of block boundary under progress for application u/s 7(1) and finalization of requirement of land.
4. The Mining Plan & Mine Closure Plan for Bhubaneswari Expansion OCP (50 MTY) is under preparation at CMPDI.

**Bidders are requested to
raise their queries**

Thank You