

Tranche I Auction - Offshore Areas Mineral Blocks

Roadshow – Cochin, Kerala

January 11, 2025





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Background

OFFSHORE AREAS MINERAL POLICY IN THE COUNTRY



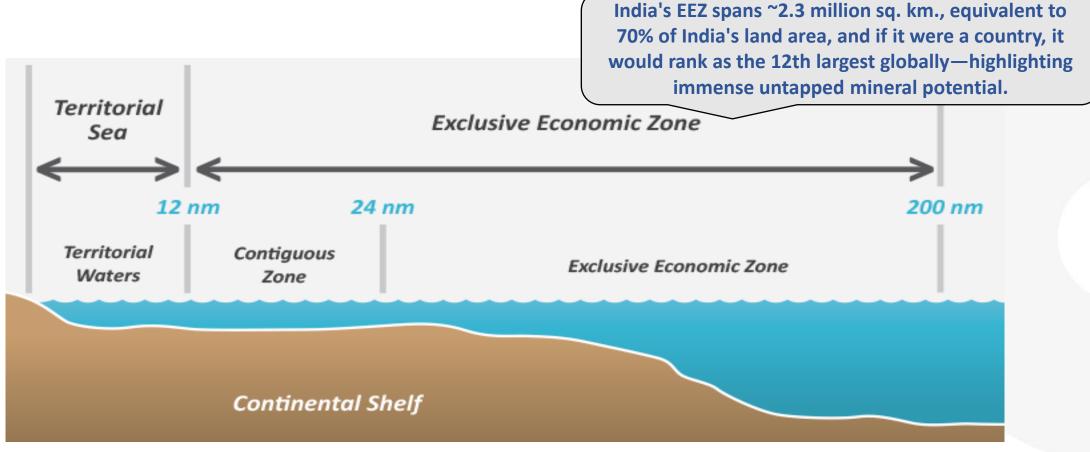
No.	Legislation/Rules	Date	Purpose/Details
1	Offshore Areas Mineral (Development and Regulation) Act, 2002	2002	Regulation and development of mineral resources in India's territorial waters, continental shelf, exclusive economic zone, and other maritime zones.
2	Offshore Areas Mineral (Amendment) Act, 2023	17.08.2023	Introduction of auction as the method for allocating operating rights in offshore areas.
3	Offshore Areas (Existence of Mineral Resources) Rules, 2024	06.06.2024	Regulate the exploration, assessment, and management of mineral resources in offshore areas
4	Offshore Areas Mineral Trust Rules, 2024	09.08.2024	Establish guidelines for the management, utilization, and governance of funds collected under the Offshore Areas Mineral Trust (OAMT)
5	Offshore Areas Mineral (Auction) Rules, 2024	14.08.2024	Govern the auction process for granting operating rights such as Production Lease and Composite Licence.
6	Offshore Areas Operating Rights Rules, 2024	16.10.2024	Address the operational aspects and obligations of operating rights holders in offshore areas

Note – Offshore Areas Mineral Conservation and Development Rules, and Offshore Areas illegal Mining Rules are at a draft stage.

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EXTENT OF MARITIME ZONE OF INDIA



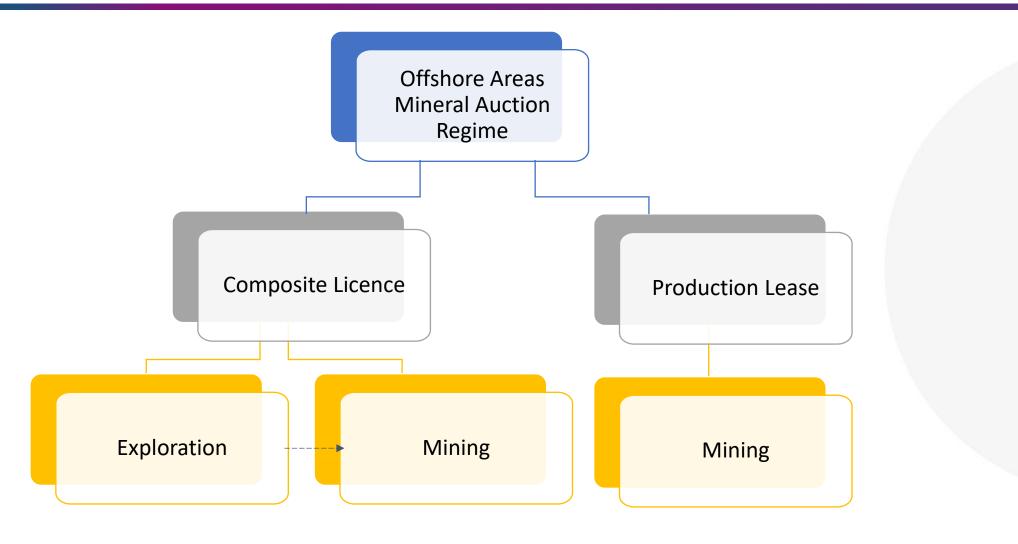


The Offshore Areas Mineral (Development and Regulation) Act, 2002 and the rules made thereunder are applicable to mineral resources in the territorial waters, continental shelf, exclusive economic zone and other maritime zones of India.

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OFFSHORE AREAS OPERATING RIGHTS GRANT REGIME IN INDIA



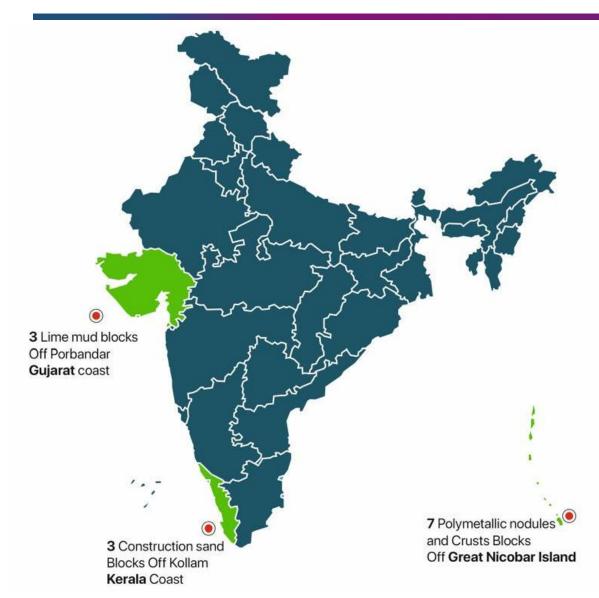




Details of Tranche I of Offshore Area Mineral Auction

Tranche I of Auction of Offshore Areas Mineral Blocks





- Ministry of Mines through Administering Authority has issued Notice Inviting Tender (NIT) on November 28, 2024 for grant of Composite Licence for 13 Offshore Areas Mineral Blocks under Tranche I.
- These 13 Blocks include 3 <u>G3</u> blocks of Lime mud Off the coast of Gujarat, 3 <u>G3</u> blocks of Construction Sand Off the coast of Kerala and 7 <u>G4</u> blocks of Polymetallic nodules and crusts Off the coast of Great Nicobar Island respectively.

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BLOCK DETAILS



S. No.	Block Name	Nearest Port	Offshore Region	Area (in Sq. km)	Number of Standard Blocks	Commodity	Resources (in MT)
1.	Porbandar-1	Porbandar	Off Gujarat	66.64	21	Lime mud (CaO)	522.00
2.	Porbandar-2	Porbandar	Off Gujarat	69.81	22	Lime mud (CaO)	632.00
3.	Porbandar-3	Porbandar	Off Gujarat	66.64	21	Lime mud (CaO)	558.00
4.	Kollam Block-1	Kochi	Off Kerala	79.00	23	Construction Sand	100.33
5.	Kollam Block-2	Kochi	Off Kerala	78.00	23	Construction Sand	100.64
6.	Kollam Block-3	Kochi	Off Kerala	85.00	25	Construction Sand	101.45
7.	West-Sewell-Ridge-1	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-
8.	West-Sewell-Ridge-2	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-
9.	West-Sewell-Ridge-3	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-
10.	West-Sewell-Ridge-4	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-
11.	West-Sewell-Ridge-5	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-
12.	West-Sewell-Ridge-6	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-
13.	West-Sewell-Ridge-7	Port Blair	Off Great Nicobar Island	84.63	25	Polymetallic nodules and crusts	-

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Important Timelines

IMPORTANT TIMELINES



Event	Estimated Dates
Publication of NIT	Thursday, November 28, 2024
Commencement of sale of Tender Document	Tuesday, December 03, 2024
Pre-bid conference	Thursday, January 16, 2025
Last date of receiving queries from Bidders [on or before 17:00 hours (IST)]	Tuesday, January 21, 2025
Last date for responses to queries by the Administering Authority	Monday, February 10, 2025
Last date for sale of Tender Document [on or before 17:00 hours (IST)]	Tuesday, February 18, 2025
Bid Due Date (Technical + initial price offer) [on or before 17:00 hours (IST)]	Thursday, February 27, 2025
Opening of the Technical Bids & Start date for examination of the Technical Bids	Friday, February 28, 2025
Training and mock-auctions for all the Bidders on e-auction platform	Monday, March 03, 2025 to Friday, March 07, 2025
Announcement of TQBs as per the tender document	Tuesday, March 25, 2025 to Monday, April 07, 2025
Opening of IPO, intimation to QBs and Conduct of ascending forward electronic auction	Wednesday, March 26, 2025 to Tuesday, April 08, 2025
Announcement of Preferred Bidder	Thursday, March 27, 2025 to Wednesday, April 09, 2025

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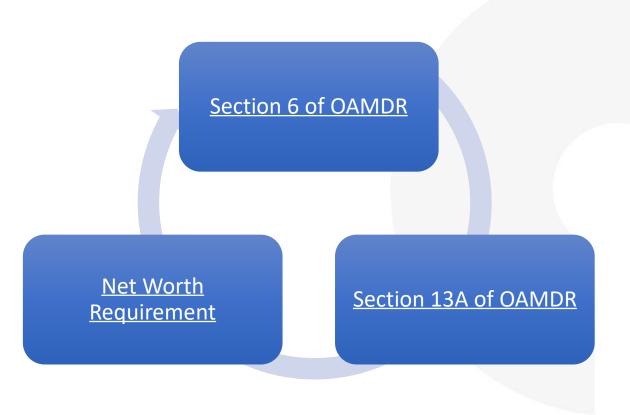
Auction Process

ELIGIBILITY CONDITIONS



A Bidder shall-

- Submit only 1 Bid for a particular Mineral Block.
 - ➤ No <u>Affiliate(s)</u> of such Bidder shall submit a Bid for said Mineral Block.
 - In case an Affiliate(s) of a Bidder also submits a Bid for said Mineral Block, the Bids submitted by the Bidder and its Affiliate(s) will be rejected.
- Comply with eligibility conditions specified in Section 6 of the OAMDR Act.
- Comply with area limits specified in Section 13A and as prescribed in the eligibility conditions.
- Comply with the Net Worth Requirement



BIDDING PARAMETER



Bidder to quote a Percentage (%) equal to or more than the Reserve Price (which the Bidder is willing to share with the Government as revenue share) to be a Preferred Bidder

<u>Amount Payable</u> by the Successful Bidder will be the Auction Premium, paid on monthly basis as the said percentage quoted by the Successful Bidder on as the multiplication of:

Quantity of Mineral(s) dispatched in a month

and

- Average Sale Price (ASP) of the mineral grade or concentrate published by IBM for the relevant month
 Minus*
 - The amount payable towards royalty calculated on the ASP published by IBM; and
 - Offshore Areas Mineral Trust calculated on the ASP published by IBM

^{*} Provided that deduction of amount payable towards royalty and Offshore Areas Mineral Trust shall not be applicable for minerals, including polymetallic nodules and crusts, for which ASP is published on basis of London Metal Exchange or London Bullion Market

Association price or any other index, publication or exchange.

GENERAL OUTLINE OF AUCTION PROCESS



- It is a 2-stage Ascending Forward Online Electronic Auction
- The following are available on auction portal in public domain
 - Mineral Block Summary
 - Blank Tender Document
- Interested Bidder can register itself on the auction portal for participating in e-auction of Offshore Areas Mineral Blocks
- Bidders need to pay non-refundable tender document fee per mineral block to obtain
 - Block Specific Tender Document
 - Geological Report
- Bidders should regularly visit the MSTC website for any corrigendum/addendum/updates issued

AUCTION PROCESS



Round – I of e-auction

- Submission of Technical Bids
- Submission of IPO
 - Bidder to submit Technical Bid and Initial Price Offer
 - Top 50% technically qualified bidders (TQB) or 5 whichever is higher will proceed to Round II
 - If TQBs are less than 3, auction process will be annulled



Round – II of e-auction

- Opening of IPO
- Live forward auction
 - Highest Initial Offer in I Round will become Floor Price for II Round
 - Minimum increment in price bids shall be 0.05% (subject to approval of TCRC) during the live auction stage
 - At least one Final Price Offer (FPO) is needed for successful auction
 - Bidder who submits highest FPO is declared as Preferred Bidder (PB) immediately on conclusion of auction



SUBMISSION OF TECHNICAL BID



Online Submission

- Scanned copies of all documents
- B Initial Price Offer (IPO)



IPO must not be submitted in physical form



- *Applicable for individual bidder only
- ** Certificate of Incorporation by Companies and Passport by Partners of Partnership Firm/ Proprietors of Proprietorships / Individuals

<u>List of documents as a Technical Bid</u> (Physical documents to be hand delivered)

- 01 Bid Letter
- 02 Bid Security
- 03 Power of Attorney
- 04 Affidavit
- 05 Corporate Authorization
- 06 Networth Certificate
- *GST certificates or Bank Letter
- 08 **Proof of Nationality



Payments

ONE TIME PAYMENTS



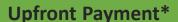
Tender Fee

- INR 3,00,000 per block (excluding GST)
- GST payable on reverse charge mechanism
- Tender Document Fee is Non-refundable. nontransferable



- 0.25% of VER or INR 10 crore, whichever is lower
- Where estimated resources have not been reported, Bid Security shall be INR 5 lakh per Standard Block
- Refundable, subject to certain conditions
- Payable by all participants





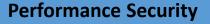
Applicable to PL

- 0.25% of VER, not exceeding INR 50 Cr., payable in 3 instalments:
 - 10% before issuance of Lol
 - 10% before transition from PB to SB
 - 80% before signing PL Deed
- Non-refundable but adjustable against auction premium
- Payable only by PB



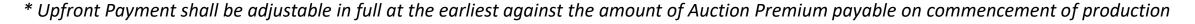
- **CL** Lower of 0.25% of VER. or INR 50 Cr.
- Where resources are not estimated, PS: INR 150 lakhs
- To be enhanced, to 0.50% of VER, prior to issuance of PL, not exceeding INR 100 Cr.
- Refundable. subject to conditions
- Payable only by PB

or INR 100 Cr.



Bid Security

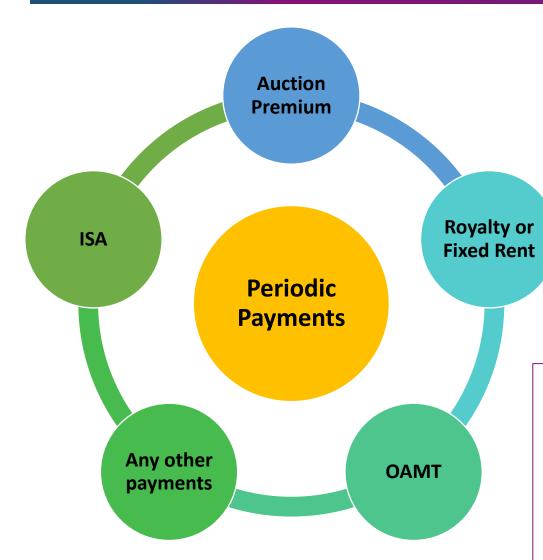






PERIODIC PAYMENTS





The PL holder (Successful Bidder) is required to pay

- Auction Premium: Percentage of Value of Mineral dispatched
- Royalty for each mineral (or Fixed Rent) as applicable
- Contributions to Offshore Areas Mineral Trust (OAMT) (10% of Royalty)
- Contributions to International Seabed Authority (ISA) (if, applicable)*
- Any payments as required under Applicable Law, including the Act and the rules framed thereunder

* Note:

- The International Seabed Authority (ISA) guidelines are currently in the draft stage.
- Payments will be made in accordance with Article 82 of the United Nations Convention on the Law of the Sea (UNCLOS).
- These payments and contributions pertain to the exploitation of the continental shelf beyond 200 nautical miles from the baseline.

DISCOVERY OF NEW MINERALS



- Where, subsequent to the e-auction, any new minerals is discovered, which is specified in <u>Part D of</u>
 <u>the First Schedule</u> or the <u>Seventh Schedule to the MMDR Act, 1957</u>, <u>10% of the Auction Premium</u>
 quoted by the Successful Bidder shall be applicable
- For other newly discovered minerals not covered in the above categories, the <u>same percentage</u> of the Value of Mineral Dispatched as quoted by the Successful Bidder shall be applicable

OFFSHORE MINE DEVELOPMENT AND PRODUCTION AGREEMENT



- OMDPA is an agreement between the Central Government and Successful Bidder that comprises
 - Conditions for Grant of Production Lease
 - Performance Security and Events of Appropriation
 - for failure to comply with the <u>Minimum Production and Dispatch Requirement</u>
 - for failure to comply the provisions of the Mine Development and Production Agreement as listed in it
 - Utilization of Mineral(s)
 - Payments and Modes of Payment
 - General Rights and Obligations
 - Assignment and Security for Financing



Process for Execution of Production Lease

PROCESS FOR EXECUTION OF PRODUCTION LEASE





Production Lease

Production Lease execution on paying 3rd installment of Upfront Payment (80%) within a maximum period of 3+2 years from the date of the letter of intent

OMDPA

Successful Bidder will execute Offshore Mineral Development and Production Agreement with Central Government on obtaining necessary approvals, consents etc.

Letter of Intent

Central Government issues Letter of intent upon receiving the 1st Instalment of Upfront Payment (10%)

PB to SB

PB pays 2nd installment of Upfront Payment (10%), satisfies eligibility conditions, furnishes Performance Security and a Production Plan to become Successful Bidder

Declaration of PB

Central Government declares the preferred bidder upon conclusion of auction

PROCESS FOR EXECUTION OF PRODUCTION LEASE FOR CL HOLDER SB





Production Lease

If production is feasible, license holder will pay first installment of upfront amount and apply for PL (remaining steps are same as PL)

- ➤ No EL deed of CL shall be executed on expiry of 1 year from the date of LoI
- Central Government may allow a further period of 6 months for execution of the EL Deed if the reasons for delay are beyond the control of the preferred bidder)

Exploration Licence

SB shall execute Exploration Licence Deed of CL and completes prescribed level of exploration within 3+2 years

PB to SB

PB becomes SB on compliance with terms of eligibility, obtaining various approvals and submitting scheme of prospecting.

Letter of Intent

Central Government issue Letter of intent upon receiving the Performance Security (0.25% of VER)

Declaration of PB

Central Government declares the preferred bidder upon conclusion of auction

CONTACT DETAILS



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Thank You

OAMDR ACT, 2002 | SECTION 6



Indian Nationals

Operating Rights can only be granted to

Entities incorporated in India (as per Companies Act, 2013)

In case of an Individual, he should be a citizen of India

In case of a firm or association of individuals, all members should be citizens of India



OAMDR ACT, 2002 | SECTION 13A



Explanation and implication of the Act

- Section 13A of the Act lays restriction on holding of operating rights in respect of any mineral or a
 group of associated minerals, all taken together and covering a total area of more than forty-five
 minutes latitude by forty-five minutes longitude.
- It disallows participation of persons who are holding or may, in the event of becoming highest bidders in the auction, hold the area in excess of the area limit under Section 13A of the OAMDR Act.
- Provided that if the Central Government is of the opinion that in the interest of the development of any mineral or industry, it is necessary so to do, it may increase or decrease the aforesaid area limits in respect of any mineral or any specified category of deposits of such mineral or such group of associated minerals.



NET WORTH REQUIREMENT ...1



Bidder shall meet the prescribed Net Worth Criteria given in "SCHEDULE I Terms and conditions of eligibility" of Offshore Areas Mineral (Auction) Rules, 2024

For Production Lease (with an upper limit of INR 100 Crore)

VER	Net Worth	
Equal to or more than INR 1,000 crore	More than 2% of VER	
Between INR 100 crore and INR 1,000 crore	More than 1% of VER	
Less than or equal to INR 100 crore	More than or equal to 0.5% of VER	

• For Composite Licence (with an upper limit of INR 50 Crore)

VER	Net Worth
More than INR 100 crore	More than 1% of VER
Equal or less than INR 100 crore	More than 0.5% of VER

For blocks where estimated resources have not been reported (and thus VER cannot be calculated), the required networth shall be INR 25 crore

NET WORTH REQUIREMENT ... 2



Quantity of Estimated Mineral Resources (in tonne) as per geological report × (multiplied by)

Last 12-month average price of mineral (per tonne) as published by IBM (grade-wise)

Illustration	
Total estimated quantity of resources in an identified Mineral Block	100 MT
Last 12-month average price of mineral (per tonne) as published by IBM (grade-wise and state-wise)	Rs. 470/Tonne
Value of Estimated Resources	Rs. 4,700 crore
Net worth Requirement (> 2% × Rs. 4,700 Cr)	> Rs.94 crore

NET WORTH REQUIREMENT ...3



Explanation for the calculation of Net Worth:

Company (From Rules):

- Net worth shall be the sum of paid-up share capital and the free reserves
- As on the last day of the financial year ended immediately preceding the date of NIT
- In case of Bidder using the Net Worth of Holding Company, the Shareholding Pattern for establishing the relationship between the Holding Company of the bidder shall be of the last day of the financial year.
- Either the net worth of the holding company or of the subsidiary shall be considered, and not both.

Partnership Firm (From Tender):

- Net Worth shall be as per the partners' capital account, and is equivalent to the sum of the paid-up share capital and the free reserves of a company
- As on the last day of the financial year ended immediately preceding the date of NIT

Individual (From Rules):

- Net worth of Individual may include instruments like amount in savings bank accounts, free and unencumbered FDs, Kisan Vikas Patra, NSCs, Bonds, Shares of Listed Companies, Listed Mutual Funds, Unit
 Linked Insurance Plan, PPF, Surrender Value of Life Insurance policies, un-encumbered immovable property,
 etc.
- The valuation of <u>unencumbered</u> (as per rules) immovable property shall be based on the <u>relevant circle rate</u> (not provided in rules).

DEFINITION OF AFFILIATE



For the purpose of this Tender Document:

- (i) "Affiliate" with respect to a Bidder shall mean a person who:
 - (a) controls such Bidder,
 - (b) is controlled by such Bidder,
 - (c) is under common control with such Bidder
 - (d) is an associate company of the Bidder, or (e) is a subsidiary company of such Bidder.
- the terms "associate company", "control" and "subsidiary company" shall have the same meanings as assigned to them in the Companies Act, 2013 (18 of 2013).



ILLUSTRATION - BIDDERS FOR ROUND II OF AUCTION



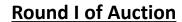
No. of Technically Qualified Bidders*	No. of Bidders Allowed to Participate in Second Round of e-Auction
1	Auction will be annulled
2	Auction will be annulled
3	All 3 bidders
4	All 4 bidders
5	All 5 bidders
6-10	Top 5 bidders
11	Top 6 bidders
12	Top 6 bidders

^{*} Assuming there are no ties in the IPOs quoted by the bidders



ILLUSTRATION - ASCENDING FORWARD AUCTION





(Price Discovery)

Say, the **Initial Price Offers** were:

10% 9.5% 8.1% 5.7% 3.5%

Reserve Price in Tender Document

1%

Ascending Forward Auction (% share of Value of Mineral dispatched)

Floor Price

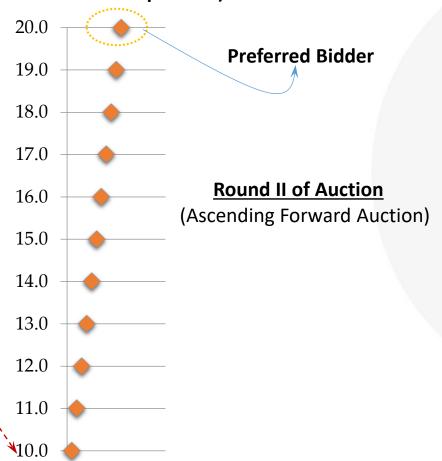




ILLUSTRATION OF AMOUNT PAID BY PRODUCTION LESSEE



Particulars	Details
Mineral dispatched in a month [A]	1 MT
Sale price of Mineral for the month (grade-wise price published by IBM) [B]	INR 500/tonne
Amount payable towards royalty calculated on the ASP [C]	INR 50
Contribution towards OMET	10% on Royalty
Amount payable towards royalty calculated on the ASP [D]	10% * INR 50 = INR 5
Percentage share quoted by the Successful Bidder [E]	20%
Amount payable* by holder of Production Lease	$A \times [B-C-D] \times E$ = 10,00,000 × [500-50-5] x 20%
	INR 8,90,000

^{*} Provided that deduction of amount payable towards royalty and Offshore Areas Mineral Trust shall not be applicable for minerals, including polymetallic nodules and crusts, for which ASP is published on basis of London Metal Exchange or London Bullion Market

Association price or any other index, publication or exchange.



ILLUSTRATION AMOUNT PAYABLE FOR MORE THAN ONE MINERALS SBI



Mineral for which the Block has been won by the Bidder: Mineral A

Action Premium: 20%

Discovery of New Mineral –

- Mineral B Applicable mineral u/s 3 of the OAMDR Act
- Mineral C Part D of Schedule I or Schedule VII to the MMDR Act

Mineral	Auction Premium
Mineral A	20% x ASP x Quantity
Mineral B	20% x ASP x Quantity
Mineral C	20% x 10% x ASP x Quantity



^{*} Amount payable is over and above Royalty, DMF, NMET contribution and other applicable payments

Min. Production and Dispatch Requirement | Virgin Block SBICAPS



Year (since commencement of PL)	Minimum Production and Dispatch Requirement (% of yearly production as per approved Production Plan)	Value of Performance Security to be appropriated
Year 1	0% of production as stated in approved Production Plan	
Year 2	10% of production as stated in approved Production Plan	12% of Average sale price of relevant mineral
Year 3	20% of production as stated in approved Production Plan	published by IBM as applicable during the
Year 4	40% of production as stated in approved Production Plan	year of shortfall (multiplied by) shortfall in
Year 5	50% of production as stated in approved Production Plan	dispatch [Minimum Production and Dispatch Requirement (minus) actual annual dispatch]

Example:

Particulars	Details
Year of consideration	Year 4
Production stated in Approved Production Plan	100 MT
Minimum Production and Dispatch Requirement as per MDPA	40 MT (40% of production as stated in Approved Production Plan)
Actual Production & Dispatch by Lessee	25 MT
Value of Performance Security to be appropriated	12%*ASP*(40-25)MT =12%*ASP*15 MT



IMPORTANT INFORMATION — SCHEDULE D AND SCHEDULE G



SCHEDULE D: MINIMUM PRODUCTION AND DISPATCH REQUIREMENT

SCHEDULE G: TREATMENT OF SHORTFALL QUANTITY

- 1. Initial year Production started by lessee (in case of no production) Grade in the proportion of the Grade mentioned in the Geological Report.
- 2. Subsequent Production undertaken (in case of production is undertaken) Ratio of Grade of Production undertaken in that particular financial year.
- 3. Subsequent Year of Production (in case of no production is undertaken) Ratio of Grade of Production undertaken in Previous financial year.

LIST OF MINERALS NOTIFIED IN PART D OF FIRST SCHEDULE SBICAPS



Sl. No.	Name of Mineral Blocks	
1.	Beryl and other beryllium bearing minerals.	
2.	Cadmium bearing minerals	
3.	Cobalt bearing minerals	
4.	Gallium bearing minerals	
5.	Glauconite	
6.	Graphite	
7.	Indium bearing minerals	
8.	Lithium bearing minerals	

SI. No.	Name of Mineral Blocks	
9.	Molybdenum bearing minerals	
10.	Nickel bearing minerals	
11.	Niobium bearing minerals	
12.	Phosphate (without uranium	
13.	Platinum group of elements bearing minerals	
14.	Potash	
15.	Minerals of the "rare earths" group not containing Uranium and Thorium	
16.	Rhenium bearing minerals	

Sl. No.	Name of Mineral Blocks
17.	Selenium bearing minerals
18.	Tantalum bearing minerals
19.	Tellurium bearing minerals
20.	Tin bearing minerals
21.	Titanium bearing minerals and ores (ilmenite, rutile and leucoxene).
22.	Tungsten bearing minerals
23.	Vanadium bearing minerals
24.	Zirconium bearing minerals and ores including zircon

LIST OF 7TH SCHEDULE MINERALS



Sl. No.	Mineral			
1.	Apatite			
2.	Beryl and other beryllium bearing minerals			
3.	Cadmium bearing minerals			
4.	Cobalt bearing minerals			
5.	Copper bearing minerals			
6.	Diamond			
7.	Gold			
8.	Graphite			
9.	Indium bearing minerals*			
10.	Lead bearing minerals			

Sl. No.	Mineral		
11.	Lithium bearing minerals.		
12.	Molybdenum bearing minerals		
13.	Niobium bearing minerals		
14.	Nickel bearing minerals.		
15.	Potash		
16.	Platinum group of elements bearing minerals		
17.	Minerals of 'rare earths' group Rhenium bearing minerals* Rock Phosphate Selenium*		
18.			
19.			
20.			

Sl. No.	Mineral		
21.	Silver		
22.	Tantalum bearing minerals		
23.	Tellurium bearing minerals		
24.	Tin bearing minerals Titanium bearing minerals and ores (ilmenite, rutile and leucoxene).		
25.			
26.	Tungsten bearing minerals		
27.	Vanadium bearing minerals		
28.	Zinc bearing minerals Zirconium bearing minerals and ores including zircon		
29			

^{*} These minerals do not have any primary source and are associated with primary ores of base metals. Currently, India does not produce these mineral commodities.



Onshore vs. Offshore

Rule bound change in Tender Document | Onshore vs. Offshore ... 1 SBICAPS



Particulars	Onshore (Critical & Strategic)	Offshore	
Exercise of power of auction for grant of mineral concession/ operating rights	Designated Officer/ State Government	Administering Authority	
Meaning of Composite Licence	Prospecting Licence cum Mining Lease	Exploration Licence cum Production lease	
Exceptions for Auction of grant of mineral concession/ operating rights under the MMDR/OAMDR Act in the Tender Document	 Minor Minerals (section 3, MMDR) Part B Minerals (First Schedule, MMDR) - Atomic 	 Oils and hydrocarbons (Section 3 (1), MMDR) Part B Minerals (First Schedule, MMDR) Atomic 	
Review Period and Site Visit	Included	No provisions for site visit	
Applicable Auction Premium on Discovery of new Minerals	 Major Minerals: Same percentage Minor Minerals: Applicable state laws 	 Part D First Schedule or Seventh Schedule Minerals (MMDR)/ Critical & Strategic and Deep seated mineral: 10% of percentage quoted Other new Minerals: Same percentage 	
Scheduled Date of Commencement (for incentive purpose)	5 (five) years from LOI issuance	No provisions	
Maximum area of mineral concession/ operating rights to be granted to single entity	As per Section 6 of MMDR Act: 50 Sq. km – for ML 100 Sq. Km – for CL	As per Section 13A of OAMDR Act: forty-five minutes latitude by forty-five minutes longitude	

Rule bound change in Tender Document | Onshore vs. Offshore ...2 SBICAPS

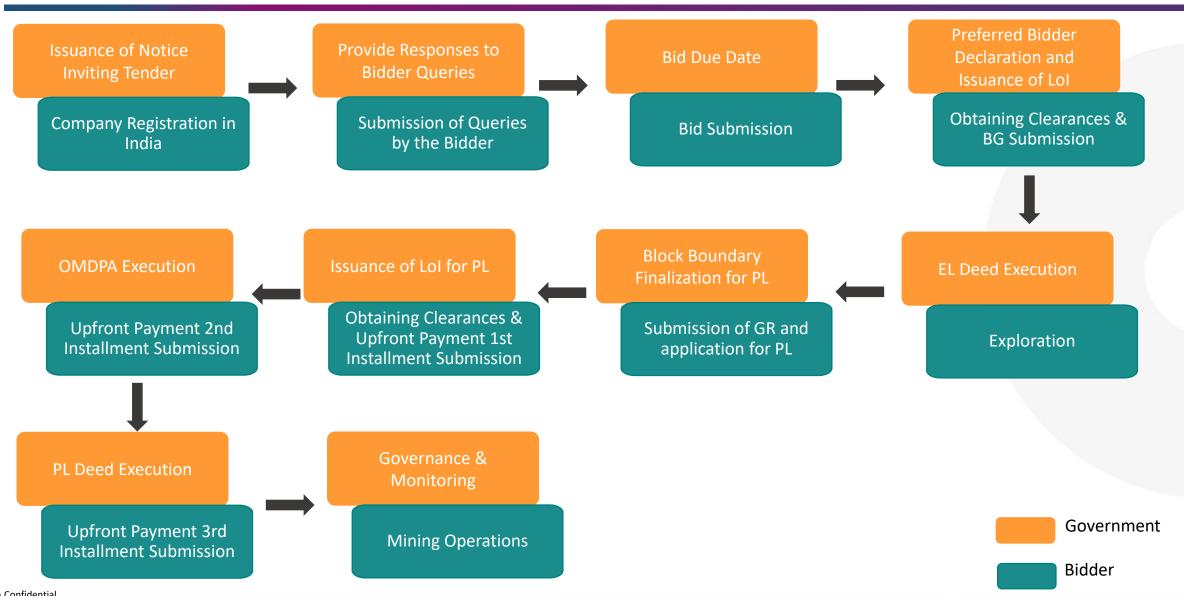


Particulars	Onshore (Critical & Strategic)	Offshore	
Upper Limit on Net Worth requirement	ML - INR 200 Cr. CL - INR 100 Cr. Where resources are not estimated: INR 25 Crore	PL - INR 100 Cr. CL - INR 50 Cr. Where resources are not estimated: INR 25 Crore	
Bid Security	0.25% of VER of INR 50 Cr., whichever is lower Where resources are not estimated: INR 50 Lakh	0.25% of VER of INR 10 Cr., whichever is lower Where resources are not estimated: INR 5 Lakh per standard block	
Upfront Payment	 0.5% of VER, not exceeding INR 500 Cr., payable in 3 instalments: 20% before issuance of LoI 20% before transition from PB to SB 60% before signing ML Deed 	 0.25% of VER, not exceeding INR 50 Cr., payable in 3 instalments: 10% before issuance of LoI 10% before transition from PB to SB 80% before signing PL Deed 	
Performance Security	ML - 0.50% of VER, not exceeding INR 500 Cr. CL - Initially 0.25% of VER, not exceeding INR 250 Cr. Where resources are not estimated: INR 150 Lakh To be enhanced to lower of 0.50% of VER or INR 500 Cr.	PL - 0.50% of VER, not exceeding INR 100 Cr. CL - Initially 0.25% of VER, not exceeding INR 50 Cr. Where resources are not estimated: INR 150 Lakh To be enhanced to lower of 0.50% of VER or 100 Cr.	

Private & Confidential

OFFSHORE AREAS OPERATING RIGHTS GRANT PROCESS FLOW





OSBICAPS Complete Investment Banking Solutions



भारतीय भूवैज्ञानिक सर्वेक्षण **GEOLOGICAL SURVEY OF INDIA**

OFFSHORE AREA MINERAL EXPLORATION & PRODUCTION









SSI is mandated to carry out mapping and exploration within the EEZ of India R. V. Samudra Ratnakar (Since 2014)



R. V. Samudra Shaudhikama (Since 1983)



R. V. Samudra Kaustubh (Since 1983)







A STATE OF THE STA

THE OFFSHORE ACTIVITIES OF THE GEOLOGICAL SURVEY OF INDIA (GSI)

Available in NGDR portal

BASELINE SURVEY

Bathymetry

Gravity Data

Magnetic Data

Sub-bottom Profiling

Seismic Data

Oceanographic Data

Surface and Subsurface sediment data

Follow us on:

 Based on the baseline data and exploration data Offshore Prospective Area (OPA MINERAL EXPLORATION

 G4 and G3 Level exploration in OPA BLOCK GENERATION

 Resource estimation and mineral block delineation for auctioning

R. V. Samudra Ratnakar

(Since 2014)



R. V. Samudra Shaudhikama

(Since 1983)



R. V. Samudra Kaustubh

(Since 1983)



www.gsi.gov.in



Offshore thematic Programs

OFFSHORE MINERAL EXPLORATION (OMINEX)



O P A 37,570 Sq. km

O P A COVERED 6,204 Sq. km

REMAINING OPA31,366 Sq km



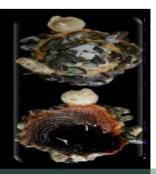
CRUST AND

NODIILES

O P A 47,823 Sq. km

O P A COVERED 21,486 Sq. km

REMAINING OPA26,337 Sq. km



O P A 1,10,000 Sq. km

OPA COVERED 34,683 Sq. km

REMAINING O P A 75,317 Sq. km



LIMEMUD

SAND

O P A 1,32,300 Sq. km

OPACOVERED 1,17,920 Sq. km

REMAINING OPA14,380 Sq km

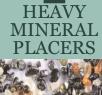




O P A 1,37,100 Sq. km

O P A COVERED 60,955 Sq. km

REMAINING O P A 76,145 Sq. km





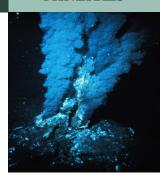
PHOSPHORITE

OPA 1,04,367 Sq. km

OPACOVERED 53,576 Sq. km

REMAINING O P A 50,791 Sq. km





G4 & G3 level exploration and mineral block delineation for auctioning

Follow us on:















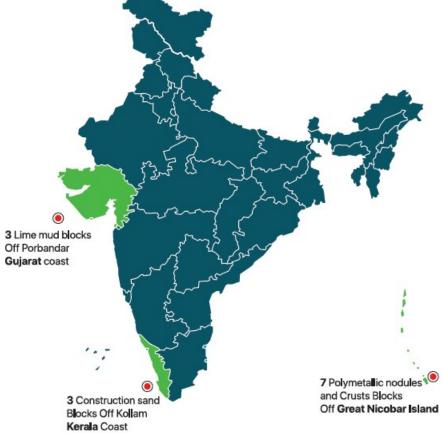
OFFSHORE MINERAL BLOCKS WITHIN THE EEZ OF INDIA





13

Offshore Mineral Blocks Generated By GSI



	SL No	Name of the Block	Mineral	Offshore Region	Coast/ Sea
	1	Porbandar LM Block-1	LIMEMUD	Off Gujarat	West Coast, Arabian Sea
	2	Porbandar LM Block-2			
	3	Porbandar LM Block-3			
	4	Kollam CS Block-1		Off Kerala	West Coast, Arabian Sea
	5	Kollam CS Block-2	CONSTRUCTION SAND		
	6	Kollam CS Block-3			
	7	West Sewell Ridge PMNC Block-1	POLYMETALLIC NODULES AND CRUSTS		
	8	West Sewell Ridge PMNC Block-2			
	9	West Sewell Ridge PMNC Block-3			
	10	West Sewell Ridge PMNC Block-4		Off Great Nicobar Island	Andaman Sea
)	11	West Sewell Ridge PMNC Block-5			
	12	West Sewell Ridge PMNC Block-6			
	13	West Sewell Ridge PMNC Block-7			













07

Geological memorandums of Polymetallic Nodules & Crusts Off Nicobar Island, Andaman in 592 Sq. Km area

13 03

Geological memorandums of limemud off Gujrat accounting to 1712 million tones in 203 Sq. Km area

03

Geological memorandums of Construction Grade Sand off Kerala accounting to 302 million tones in 242 Sq. Km area

Follow us on:



Compositionally Amorphous,

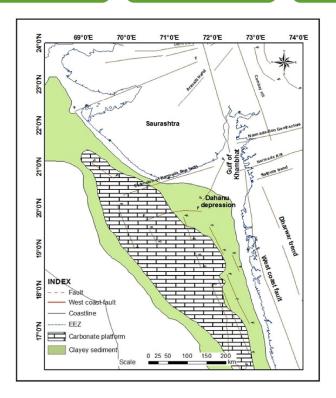
CaCO₃

Amorphous, homogeneous

Creamy white, soft and non sticky sediments



Limemud sample



Uses:

- Steel
- Filler
- Pharmaceuticals
- Food
- Cement



Carbonate Platform



OFFSHORE LIMEMUD: A SUSTAINABLE ALTERNATIVE TO HIGH-GRADE CARBONATE MATERIALS

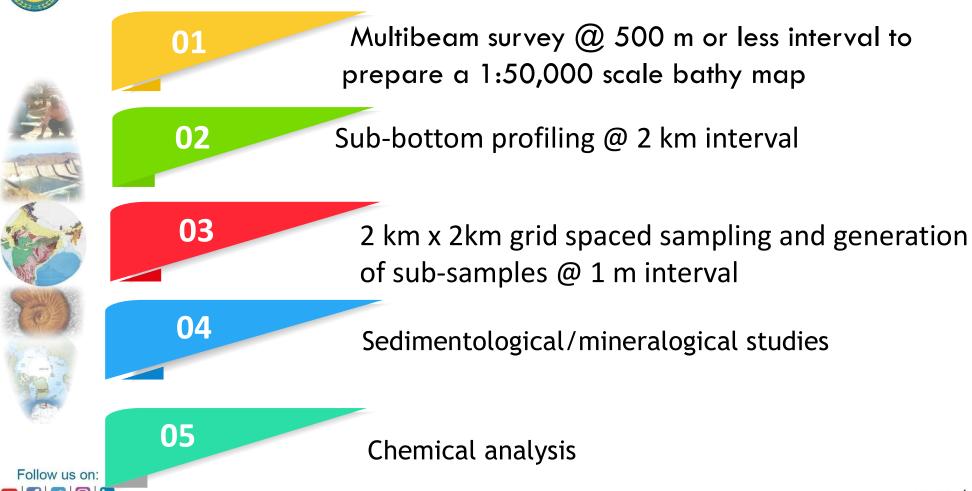








Geoscientific data utilized for the carving out of the Limemud blocks



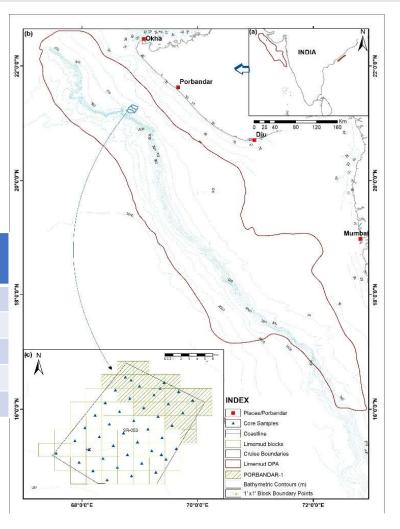


PORBANDAR LIMEMUD BLOCK-1 OFF GUJARAT

CaO values ranges from 40.14 to 50.74 %

> Avg. 46.84 %

	Min %	Max	Avg%
		%	
CaO	40.14	50.74	46.84
Fe ₂ O ₃	0.3	1.85	0.88
MgO	0.54	1.46	0.92
SiO ₂	2.95	13.11	6.65
Na ₂ O	0.48	0.71	0.58



General Information

- ❖ Area- 66.64 Sq. Km
- No of standard Blocks-21

Resource

- ❖ 522 million tonnes
- Resource estimated upto 6m

Location

- West coast, Arabian Sea
- Distance from the shore-100 Km
- ❖ Water Depth 80 to 100 m

Follow us on:









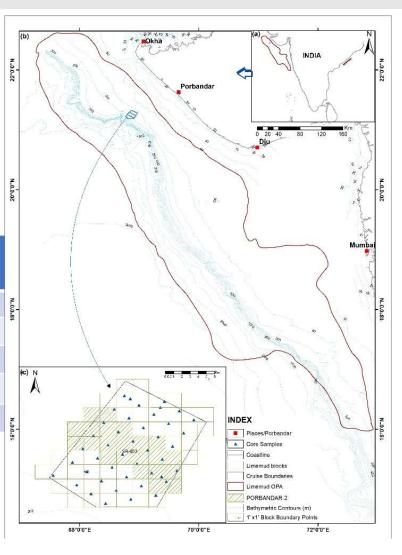


PORBANDAR LIMEMUD BLOCK-2 OFF GUJARAT

CaO values ranges from 42.62 to 51.2 %

> Avg. 49.79 %

	Min %	Max %	Avg%
CaO	42.33	52.97	50.89
Fe ₂ O ₃	0.12	1.58	0.33
MgO	0.24	1.31	0.56
SiO ₂	1.04	10.57	2.58
Na ₂ O	0.46	0.7	0.50



General Information

- ❖ Area- 69.81 Sq. Km
- No of standard Blocks-22

Resource

- ♦ 632 million tonnes
- Resource estimated upto 6m

Location

- West coast, Arabian Sea
- Distance from the shore-100 Km
- ❖ Water Depth-100 to 120 m

Follow us on:









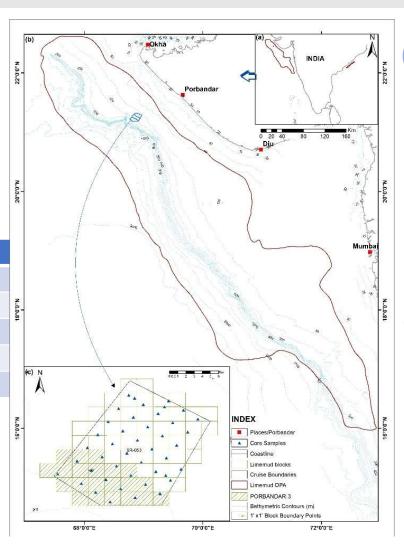


PORBANDAR LIMEMUD BLOCK-3 OFF GUJARAT

CaO values ranges from 42.33 to 52.97 %

> Avg. 50.89 %

	Min %	Max %	Avg%
CaO	42.33	52.97	50.89
Fe ₂ O ₃	0.12	1.58	0.33
MgO	0.24	1.31	0.56
SiO ₂	1.04	10.57	2.58
Na ₂ O	0.46	0.7	0.50



General Information

- ❖ Area- 66.64 Sq. Km
- No of standard Blocks-21

Resource

- ❖ 558 million tonnes
- Resource estimated upto 6m

Location

- West coast, Arabian Sea
- Distance from the shore-100km
- ❖ Water Depth 120 to 160 m

Follow us on:











Further exploration requirements

Multibeam survey with 50% overalp to prepare a 1:5,000 scale bathy map

Sub-bottom profiling @ 1 km interval

1 km x 1 km grid spaced sampling upto a depth of 10 m and generation of sub-samples @ 1 m interval

Sedimentological/mineralogical studies and bulk chemical analaysis

EIA

- > Time required for data acquisition approximately 40 to 50 day voyage
- Follow us on echosouder, sub-bottom profiler, sampler for a maximum of 10 m





Limemud Mining Methods

Mining method is dredging



Clam-shell dredger

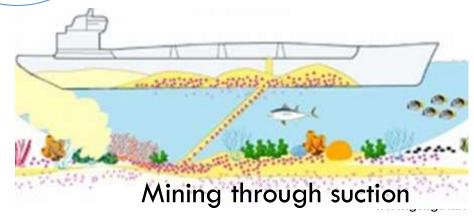
(clam-shell dredger)

Trailing suction

Trailing suction hopper dredger







Sand is a loose granular material



Particle sizes less than 4 mm and more than 0.0625 mm

Most common component is Silica

Uses:

Construction



The economic viability of sand resources depends on factors such as grain size, shape, and the presence of shell content.



SUITABILITY AND BENEFITS OF OFFSHORE SAND FOR CONSTRUCTION **COMPARED TO RIVER SAND AND MANUFACTURED** SAND (M-SAND)

Easy to mix and homogenous size similar to river sand

Reduced Environmental Impact

Compliance with size requirements of construction industry

High tonnage

Sustainable Alternative

Low carbonate content



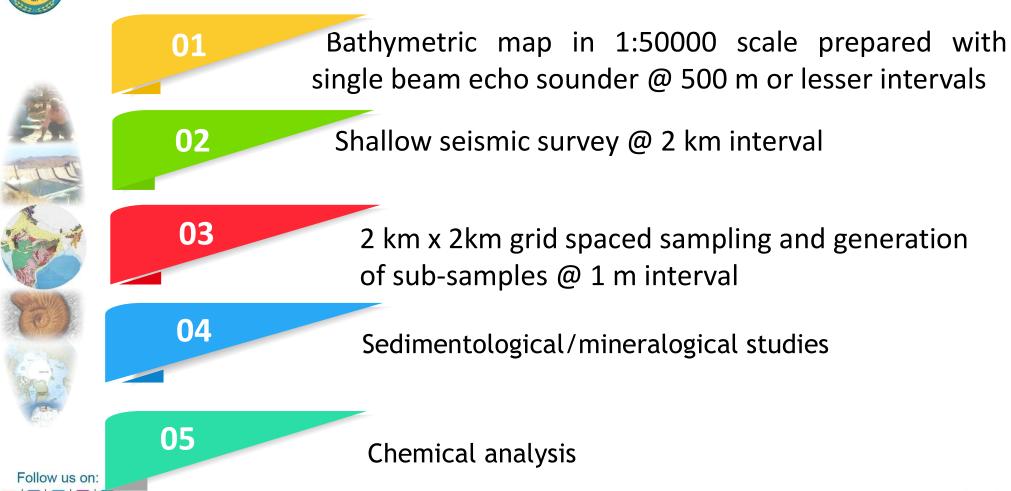






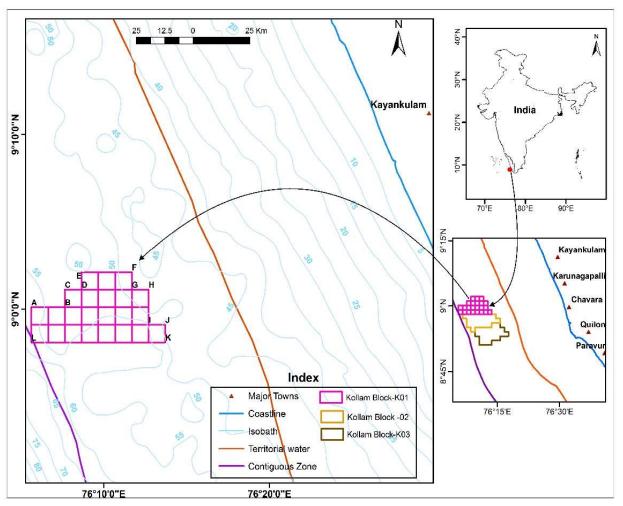


Geoscientific data utilized for the carving out of construction sand blocks





KOLLAM CONSTRUCTION SAND BLOCK-1 OFF KERALA



General Information

- ❖ Area- 79 Sq. Km
- No of standard Blocks-23

Resource

100.33 million tonnes (2m bsf)

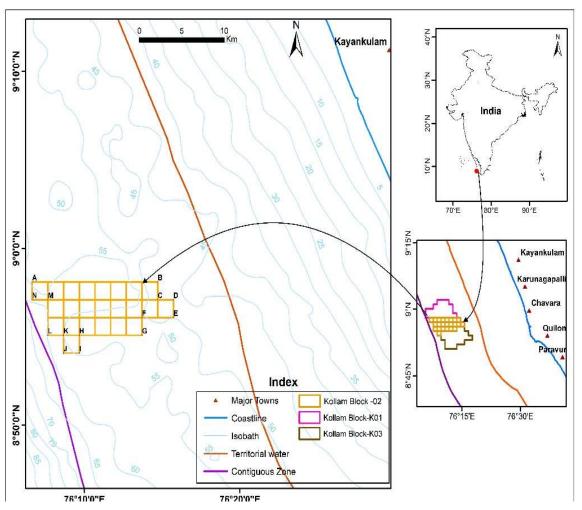
\$\$ Sand % = 24 to 93 (Avg. 56)

Location

- West coast, Arabian Sea
- Distance from the shore-33 km
- ❖ Water Depth-53.3 to 62.5m



KOLLAM CONSTRUCTION SAND BLOCK-2 OFF KERALA



General Information

- ❖ Area- 78 Sq. Km
- No of standard Blocks-23

Resource

100.64 million tonnes (2m bsf)

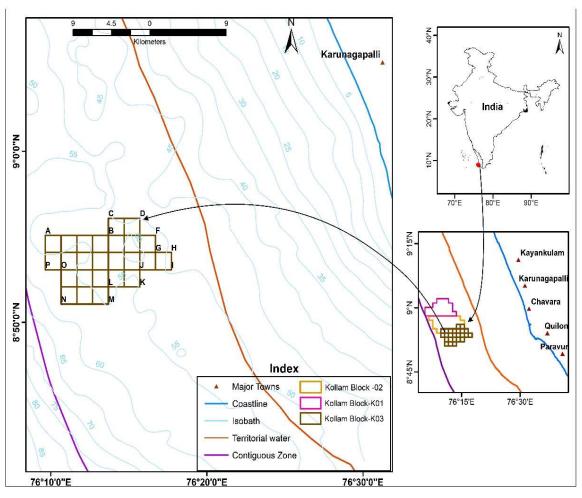
\$\$\text{Sand } % = 17 \tag{6.53}

Location

- West coast, Arabian Sea
- Distance from the shore-30 km
- ❖ Water Depth-48.4 to 61.4m



KOLLAM CONSTRUCTION SAND BLOCK-3 OFF KERALA



General Information

- ❖ Area- 85 Sq. Km
- No of standard Blocks-25

Resource

101.45 million tonnes (2m bsf)

\$\$ Sand % = 23 to 97 (Avg. 49)

Location

- West coast, Arabian Sea
- Distance from the shore-27 km
- ❖ Water Depth-49.3 to 59m



Further exploration requirements

Multibeam survey with 50% overalp to prepare a 1:5,000 scale bathy map

Shallow seismic profiling @ 1 km interval

1 km x 1 km grid spaced sampling upto a depth of 6 m and generation of sub-samples @ 1 m interval

Sedimentological/mineralogical studies and bulk chemical analysis

EIA

- > Time required for data acquisition approximately 40 to 50 day voyage
- ► Equipment requirements Desirably a DP 1 vessel with a multibeam Follow us on echosouder, shallow seismic system, sampler for a maximum of 6 m











Plain suction dredges -vaccum up unconsolidated material





Rotary cutter dredges - Have a cutting tool at the suction inlet to dislodge more consolidated material

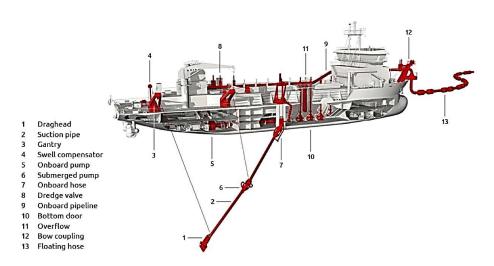


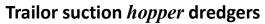
Bucket dredges- Drag a bucket along the sea floor





Adani Ports and Special Economic Zone Ltd (APSEZL) provides **Dredging solutions**







Cutter suction dredgers - IHC Royal



KSR Marine Services

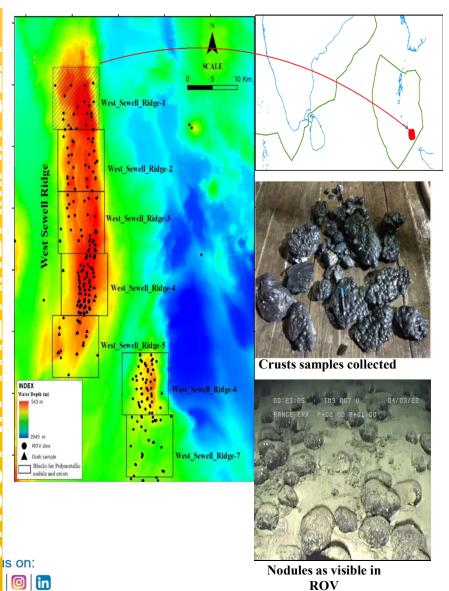












7 blocks each 5' x 5' in West Sewell Ridge, Andaman Sea



> 592.41 Sq. Km has been demarcated

 Based on visual interpretation of ROV footage and chemical analysis of samples



Remotely Operating Vehicle - ROV



Depth of occurrences - 500 and 1500m



Mark the second second

Manganese and iron, also contain nickel, copper, cobalt, and lead

Besides Rare Earth Elements

Main target areas: West Sewell Ridge (WSR), and Sewell Rise (SR) in Andaman Sea

Follow us on:

Follow us on:



A viable alternative, with an approximate 1% of Cu, Ni, and **Co and Total REE**

Reducing waste and selective extraction of multiple metals (Mn, Ni, Cu, Co).

Lower environmental footprint

Less impact on indigenous populations.

Avoids direct human exposure to hazardous conditions

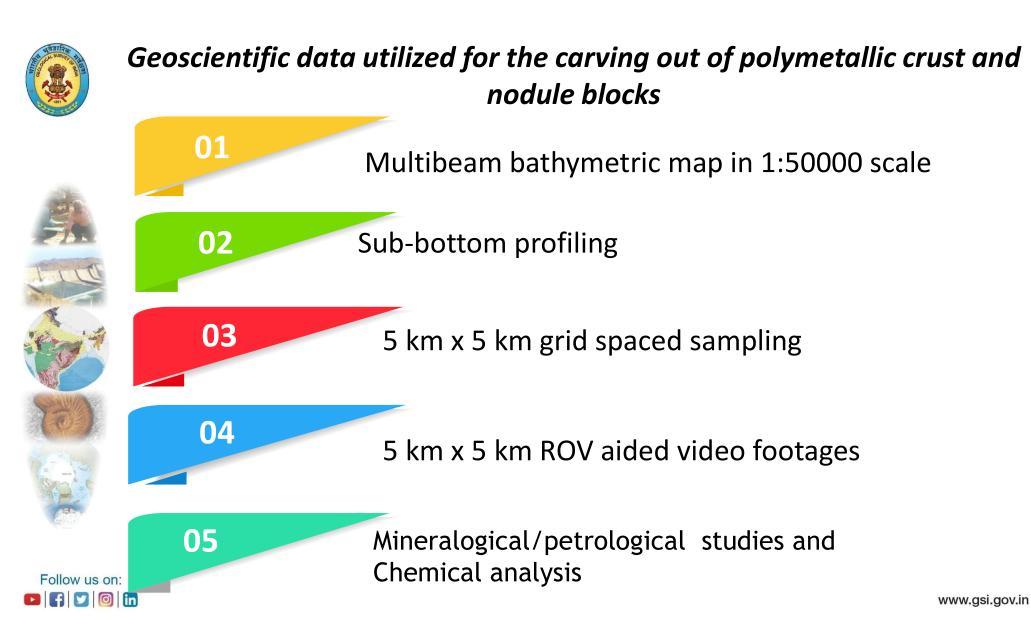
Follow us on:



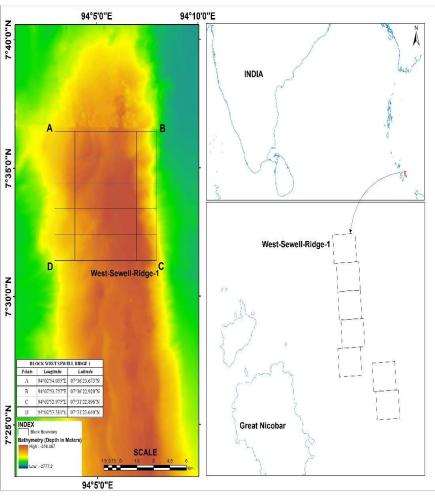












Elemental concentration up to (ppm)

Ва	2661
Co	1893
Cr	844
Cu	464
Ni	5823
Pb	2039
As	1338
∑REE	1474

General Information

- ❖ Area- 84.63 sq. km
- No of standard Blocks-25

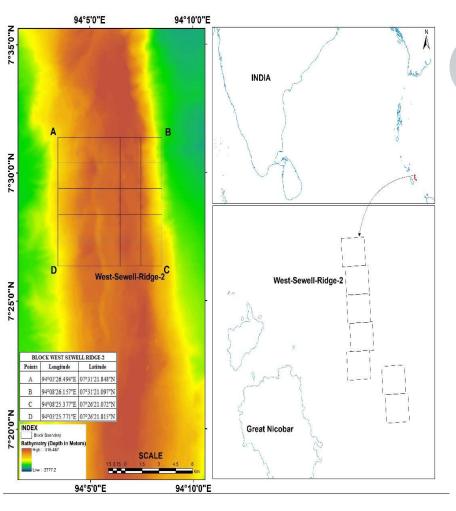
Resource

Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- Great Nicobar Island, EEZ of India
- Distance from the shore-19-50 km
- ❖ Water Depth-552 to 1153 m





Elemental concentration up to (ppm)

Ba	3518
Co	2226
Cr	1062
Cu	966
Ni	6238
Pb	2189
Zn	757
Sr	1581
Li	158
V	844
Mo	436
∑REE	1605

General Information

- ❖ Area- 84.63 sq. km
- No of standard Blocks-25

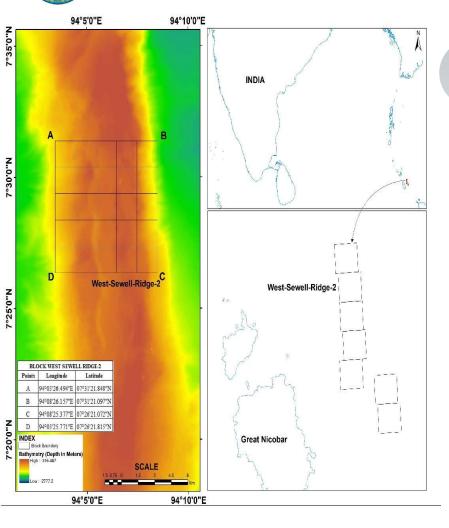
Resource

Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- Great Nicobar Island, EEZ of India
- Distance from the shore-19-50 km
- ❖ Water Depth-600 to 1057 m





Elemental concentration up to (ppm)

Ва	2997	
Co	1924	
Cr	1523	
Cu	404	
Ni	5884	
Pb	1525	
Zn	764.5	
Zr	278.7	
As	932	
V	892	
Yb	29.42	
Sc	94	
∑REE	1742	

General Information

- ❖ Area- 84.63 sq. km
- No of standard Blocks-25

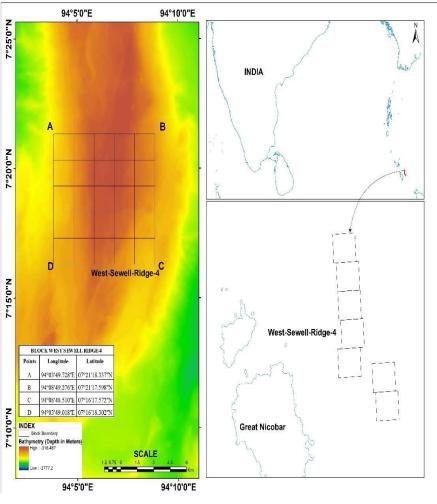
Resource

Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- Great Nicobar Island, EEZ of India
- Distance from the shore-19-50 km
- ❖ Water Depth-557-1491.38 m





Elemental concentration up to (ppm)

Ва	1967
Со	3476
Cr	674
Cu	380
Ni	5108
Pb	1648
Zn	556
Zr	768
Sr	2213
Rb	186
∑REE	1742
PGE+ Au (ppb)	29.09

General **Information**

- ❖ Area- 84.63 sq. km
- No of standard Blocks-25

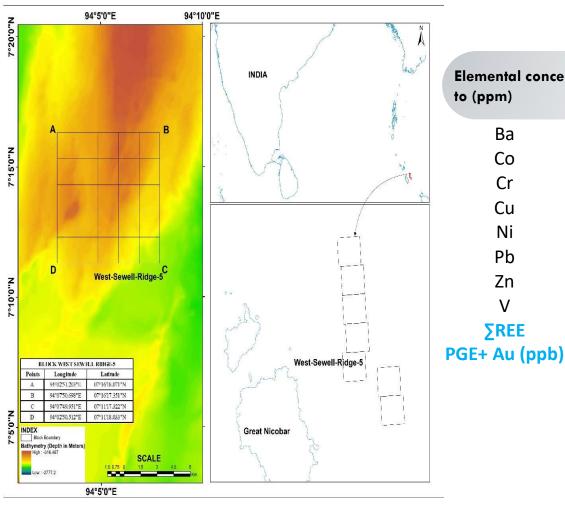
Resource

Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- ❖ Great Nicobar Island, EEZ of India
- ❖ Distance from the shore-19-50 km
- ❖ Water Depth-592-1328 m





Elemental concentration up to (ppm) Ba 2771 Co 1152 Cr 63 Cu 526 Ni 6365 Pb 1119

Zn

TREE

638

477

1267

267

General Information

- ❖ Area- 84.63 sq. km
- ❖ No of standard Blocks-25

Resource

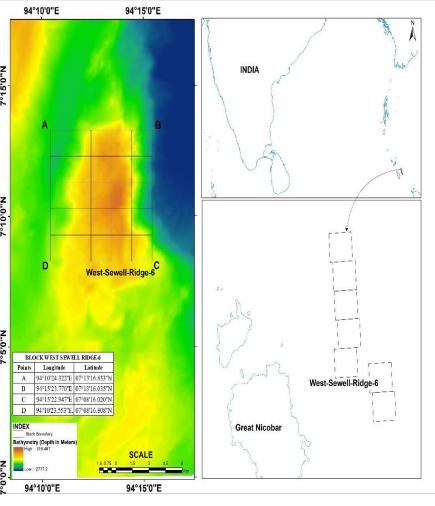
Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- ❖ Great Nicobar Island, EEZ of India
- ❖ Distance from the shore-19-50 km
- ❖ Water Depth-788-1386 m







Elemental concentration up to (ppm)

Ва	4620
Co	943
Cr	745
Cu	334
Ni	1958
Pb	612
Zn	436
Zr	345
V	334
∑REE	576
GE+ Au (ppb)	672

General Information

- ❖ Area- 84.63 sq. km
- No of standard Blocks-25

Resource

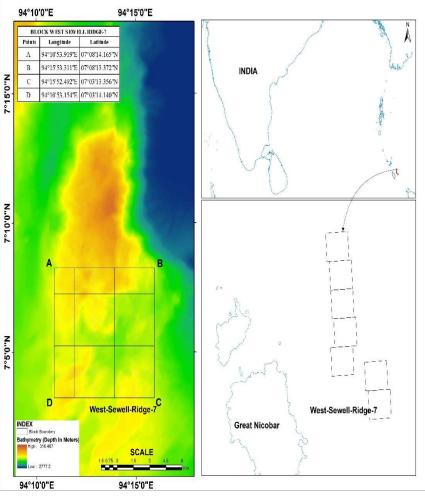
Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- Great Nicobar Island, EEZ of India
- Distance from the shore-19-50 km
- ❖ Water Depth-922-1461m







Elemental concentration up to (ppm)

Ва	3539	
Co	1183	
Cr	663	
Cu	432	
Ni	1692	
Pb	833	
Zn	465	
Zr	176	
V	321	
∑REE	1259.07	

General Information

- ❖ Area- 84.63 sq. km
- No of standard Blocks-25

Resource

Established the occurrence of PMNC (Reconnaissance mineral exploration).

Location

- Great Nicobar Island, EEZ of India
- ❖ Distance from the shore-19-50 km
- ❖ Water Depth-1145-1571m

Further exploration requirements

Multibeam survey with 50% overalp to prepare a 1:5,000 scale bathy map

Sub-bottom profiling @ 1 km interval

1 km x 1 km grid spaced sampling upto a depth of 1 m

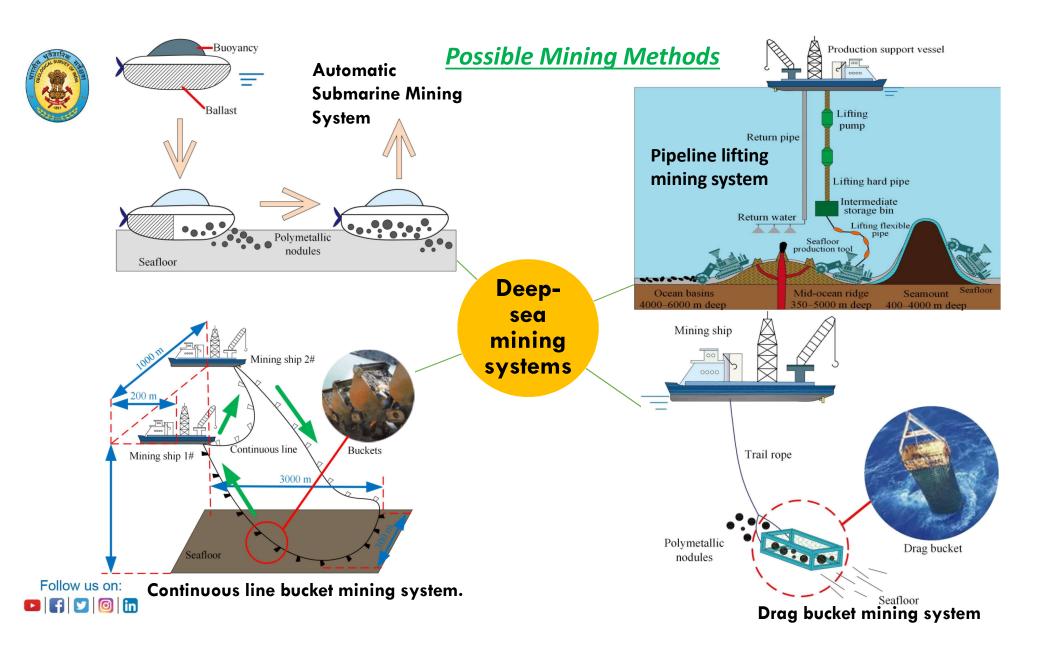
Sedimentological/mineralogical studies and bulk chemical analysis

Laboratory scale beneficiation studies

EIA

- > Time required for data acquisition approximately 40 to 50 day voyage
- Equipment requirements Desirably a DP 1 vessel with a multibeam echosouder, sub-bottom profiler, Remotely Operated Vehicle with
 manipulator for sample recovery, dredge sampler









Exploratory Mining Trials were conducted in the Andaman Sea for polymetallic nodules by NIOT using indigenously built seabed mining machine, Varaha-3 in Oct 24



Follow us



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Email: hod.mw@gsi.gov.in

Mob: +91 94484 78523

+91 97455 16517

+91 70223 74438





THANK YOU





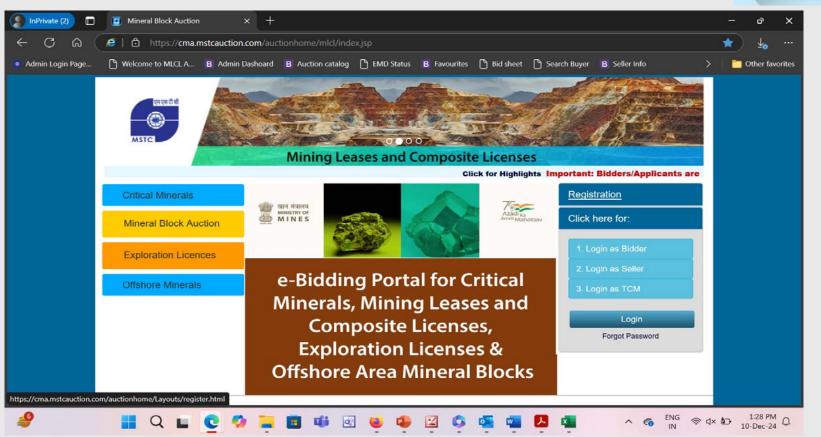


Presentation on e-Auction portal for MLCL of Offshore Minerals.



Offshore Mineral Home Pag







Free Documents Download





Steps to be followed in the bidding process:

Bidder Registratio Document & Download

Technical
Bid
Submission

IPO Submission auction
Participati
on by
eligible
bidders





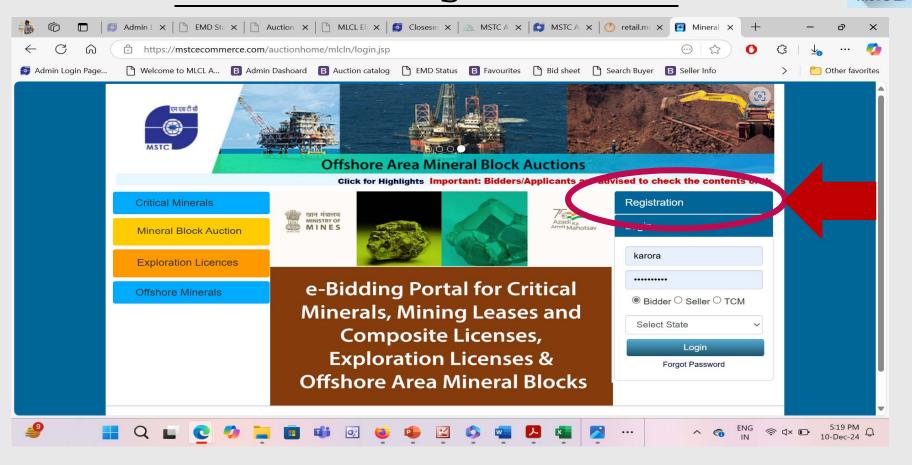
STEP 1: BIDDER REGISTRATION

- Registration has to be done on the <u>Mineral Block Auction</u> portal of MSTC.
- Bidder shall require Class III , Signing plus encryption type DSC for registration and participation in the Auction.



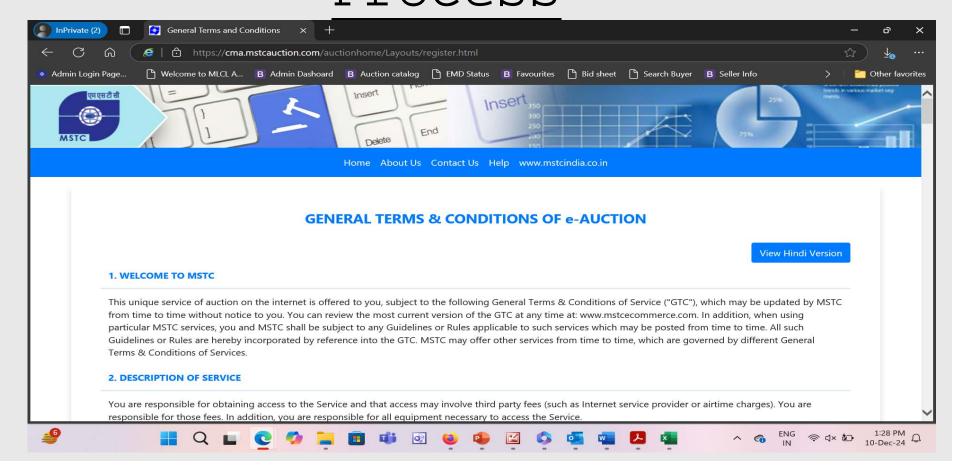
Bidder - Registration



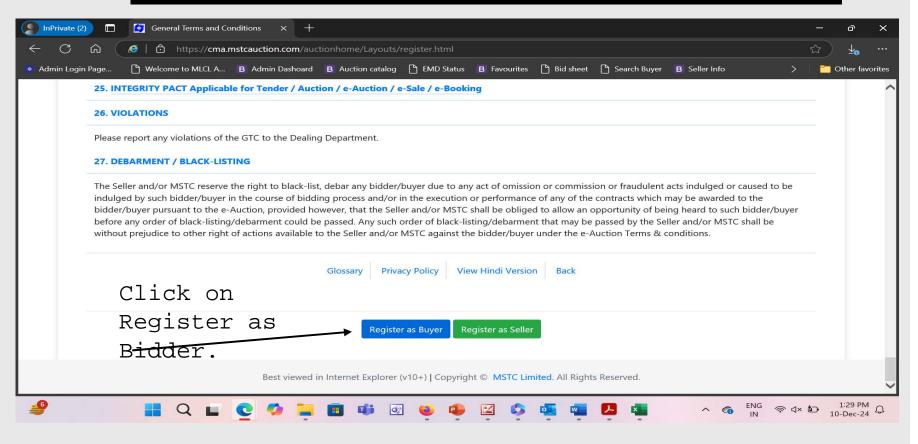


Blader Registration Process

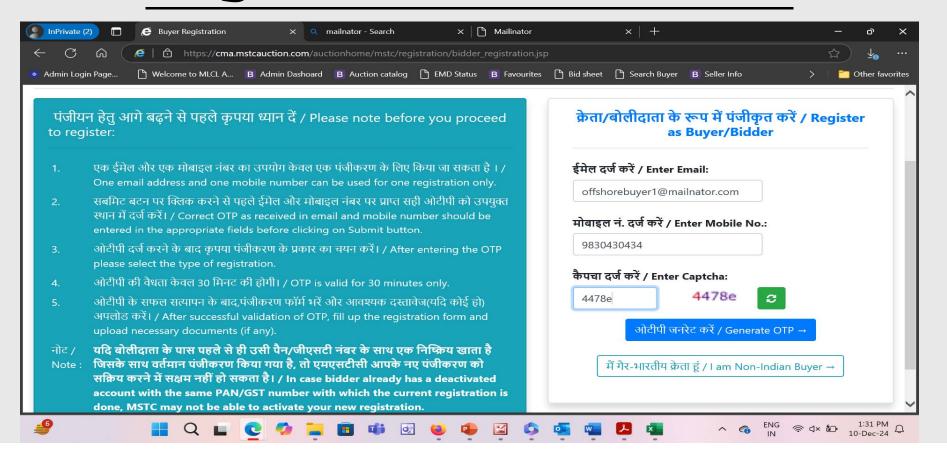




Bidder Registration Process



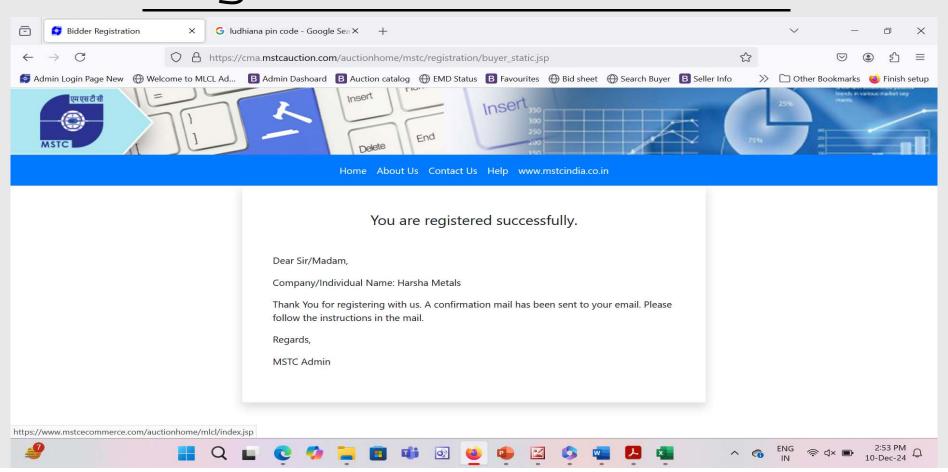




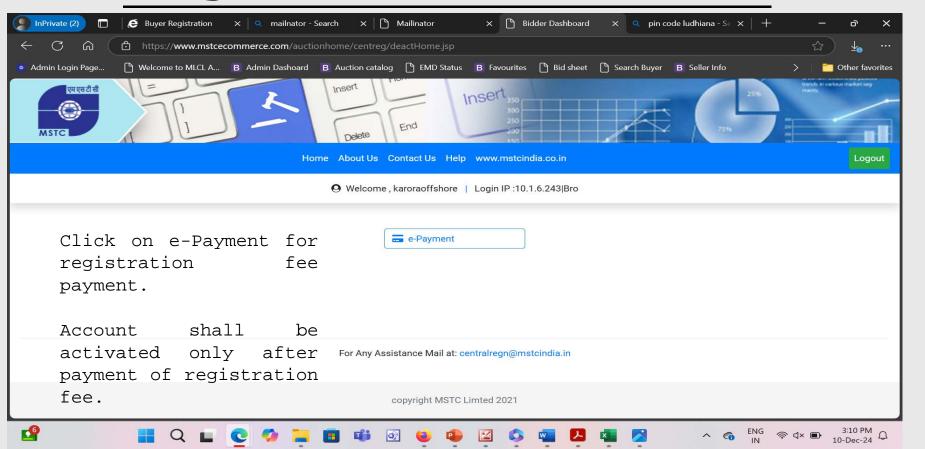


	0.0	
\rightarrow C	https://cma.mstcauction.com/auctionhome/mstc/regist	
	करने में सक्षम नहीं हो सकता है।	फॉर्म को जमा करने की तारीख से 30 दिनों के भीतर सक्रिय नहीं किया गया है।
	कंपनी का प्रकार / Company Type*:	Individual
	क्रेता का प्रकार / Buyer Type *:	Non Coal Mines 🕶
	कंपनी का नाम/व्यक्ति का नाम / Company Name / Name of individual	Keshav Arora Limited
	अधिकृत व्यक्ति का नाम / Name of Authorized Person* :	Keshav Arora
	डाक पता/ Postal Address*:	New Delhi
	शहर / City*	Delhi
	पिन / Pin*:	110063
	राज्य/ केंद्र शासित प्रदेश / State/Union Ter.*:	Delhi
	देश / Country*:	INDIA
	ई मेल / E Mail*:	offshorebuyer1@mailinator.com
	फोन / Phone*:	9830430434
	फैक्स / Fax:	

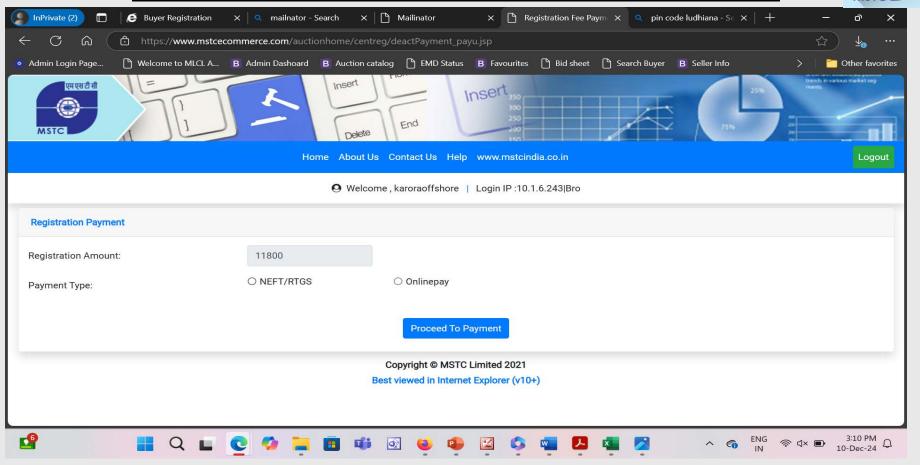












Bidder - Login Login as □ | S Admin | X | B EMD Str X | Auction X | MICLE| X | Closese X | MASTCA X Bidder https://mstcecommerce.com/auctionhome/mlcln/login.jsp Welcome to MLCL A... B Admin Dashoard B Auction catalog B EMD Status B Favourites B Seller Info > Other favorites Enter the user id Offshore Area Mineral Block Auctions Click for Highlights Important: Bidders/Applicants are advised to check the contents of th Enter Critical Minerals Registration खान मंत्रालय MINES password Mineral Block Auction karora **Exploration Licences** Select e-Bidding Portal for Critical Offshore Minerals "Bidder" Minerals, Mining Leases and Select State **Composite Licenses,** Select Login **Exploration Licenses &** state as Forgot Password Offshore Offshore Area Mineral Blocks Minerals -GOI

STEP 2: Purchase of Paid Documents.





Free documents can be downloaded by visiting the Mineral Block Auction portal of MSTC.

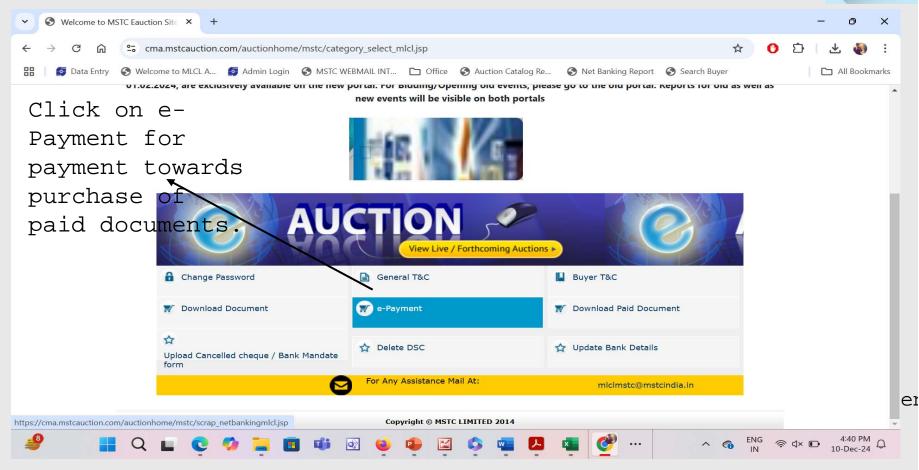




Only registered bidders shall be allowed to make payment for and download paid documents.

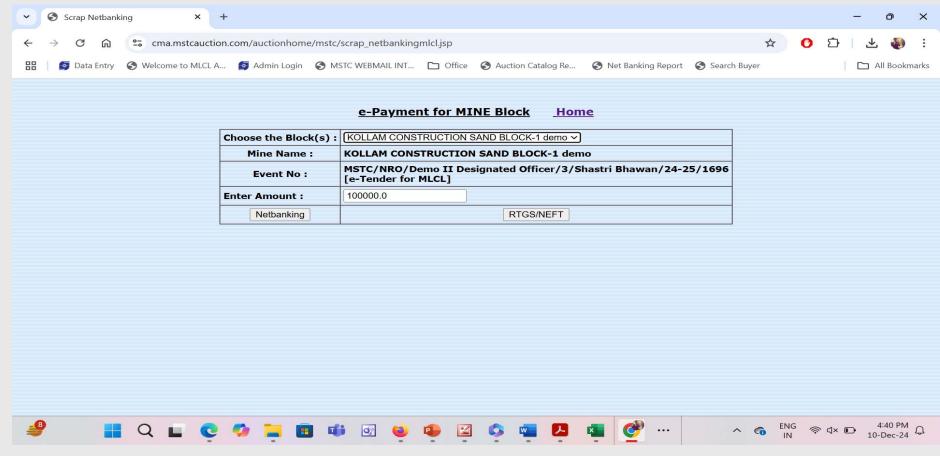
E-payment for Paid Documents





e-Payment





Download Paid Documents C cma.mstcauction.com/auctionhome/docmngtsystem/paiddoc/download_paid_doc.jsp 👨 Data Entry 😚 Welcome to MLCL A... 🧧 Admin Login 🚱 MSTC WEBMAIL INT... 🗀 Office 🚱 Auction Catalog Re... 🚱 Net Banking Report 🚱 Search Buyer All Bookmarks DOWNLOAD PAID DOCUMENTS **File Name Download File** KOLLAM CONSTRUCTION SAND BLOCK-1 demo Download Bidder shall be allowed to download the documents for only those Mine block against which payment has been successfully paid to MSTC.

Auction Process





Click on "Click for Auctions" link to proceed for file upload and bid submission.



Click on Stage 1 Bid Submission for technical cum IPO submission.

•Step 3: Technical Bid submission.



Technical bids can be submitted only against the Mine blocks for which the Tender document fee has been paid by the bidder.



Uploading and attaching documents is mandatory for submitting the technical bid.

Auction Process

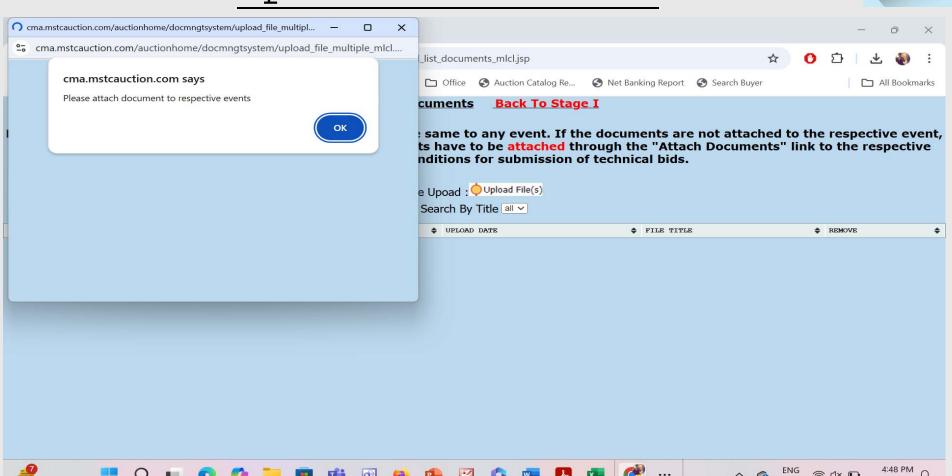




Click on "Upload Documents" to upload files Click on "Attach Documents" to attach the files with a particular tender. Click on "Bid Floor Manager" for submission of online Technical Cum IPO.

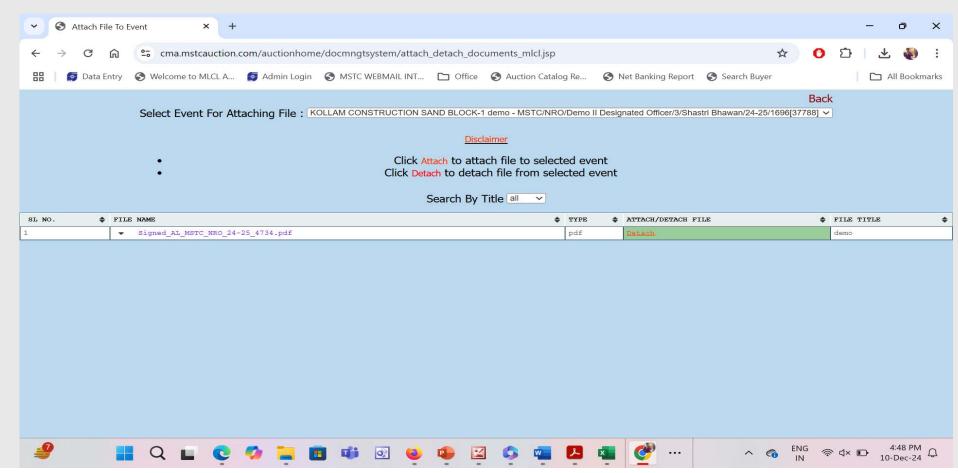
Upload Documents





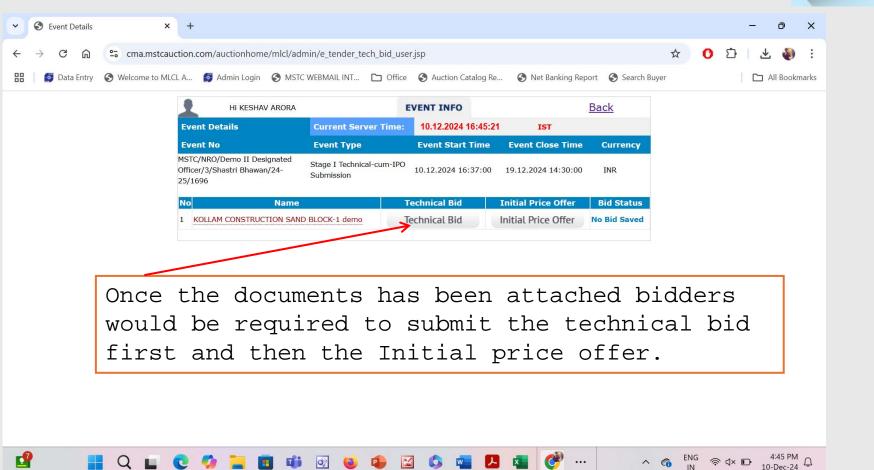
Attach Documents





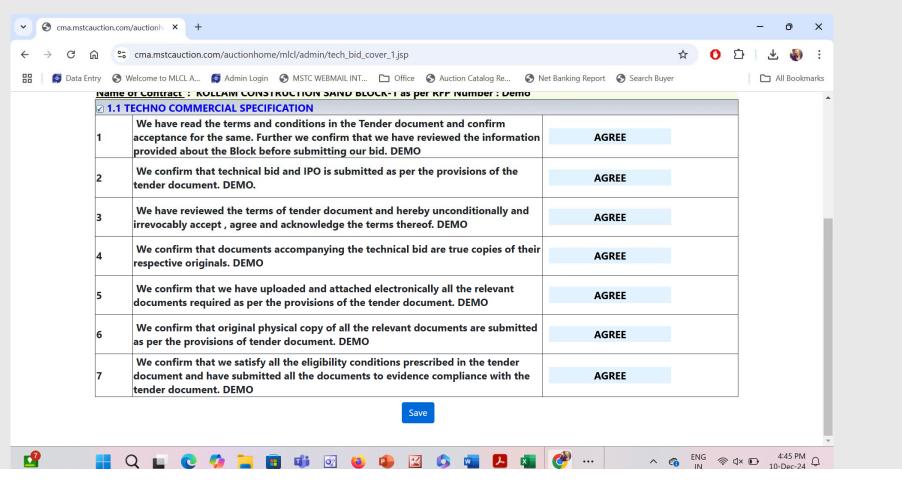
Bid Floor





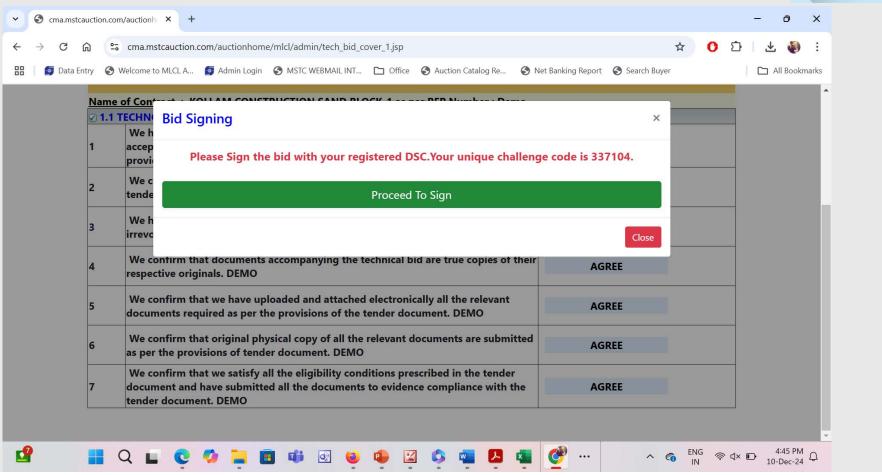
Technical Bid Submission





Technical Bid Submission





IPO Submission

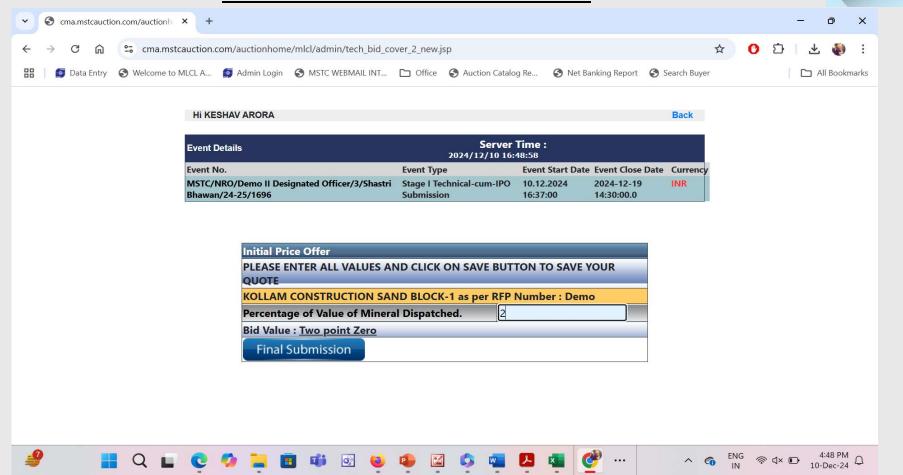




Once the technical bid has been submitted the bidder would be allowed to submit the Initial price offer.

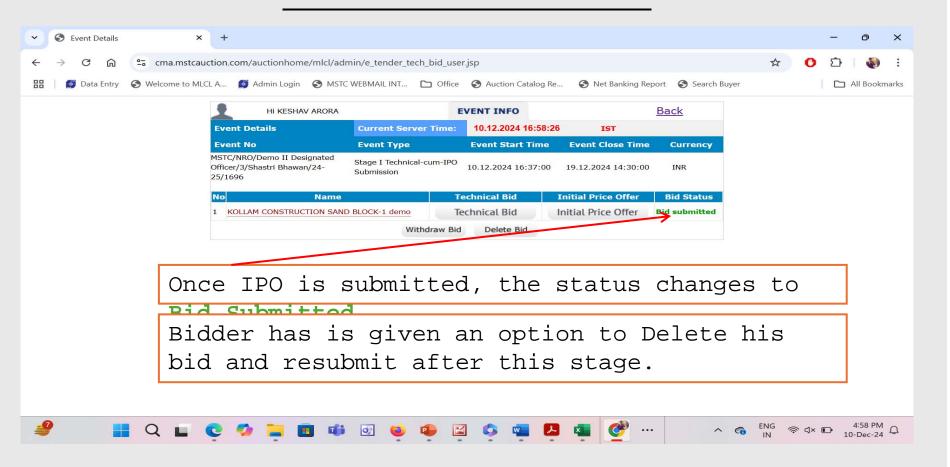
IPO Submission

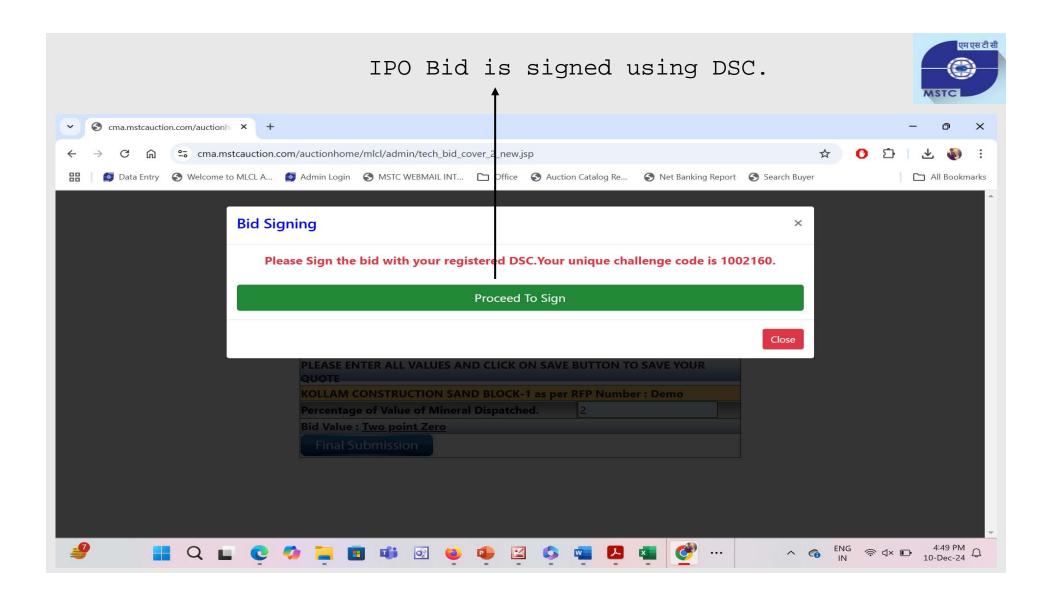






Bid Submission







Stage 1: Tender Process

At Bid Floor Manager.

• The bidder may submit the technical bid and IPO.

Status of the bid

• The status of the bid will be shown as Bid Submitted.

After Final Submission, the Bidder can

- Withdraw its bid by Withdraw button
- Delete its bid by Delete button



Step 4: Participation in Forward Auction. (Stage II)



ONLY BIDDERS WHO ARE FOUND TECHNICAL QUALIFIED ARE ELIGIBLE TO PARTICIPATE IN THE FORWARD AUCTION.



THE HIGHEST BID
RECEIVED IN THE
INITIAL PRICE
OFFERING (IPO) WILL
SERVE AS THE FLOOR
PRICE FOR THE
FORWARD AUCTION.



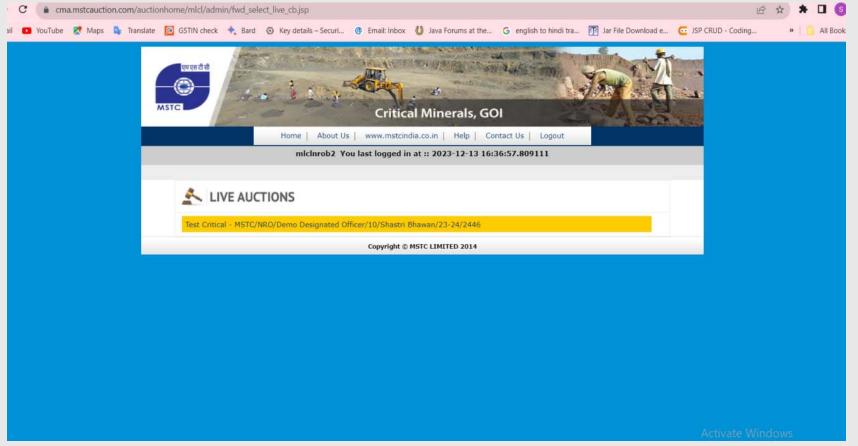
THERE WILL BE AUTO
EXTENSION TIME IN
THE AUCTION SHALL BE
8 MINUTES.



IF NO BIDS ARE
RECEIVED IN THE LAST 8
MINUTES OF THE
AUCTION, THE AUCTION
SHALL END

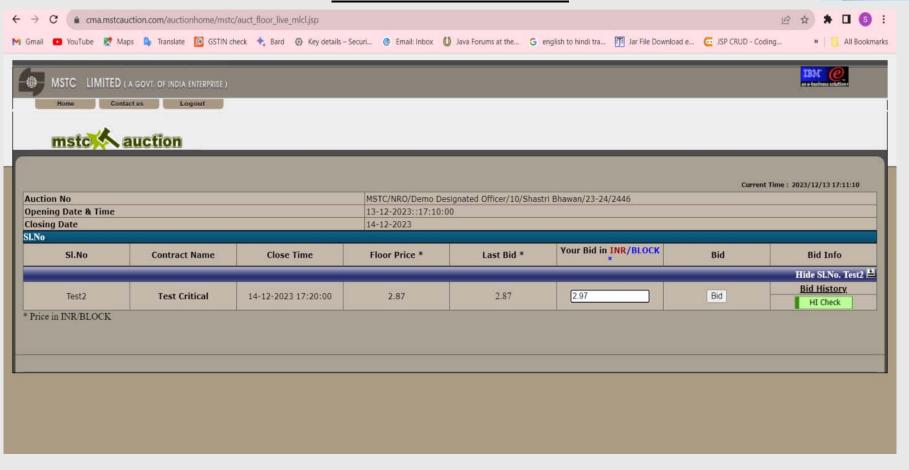
Stage II : Forward Auction





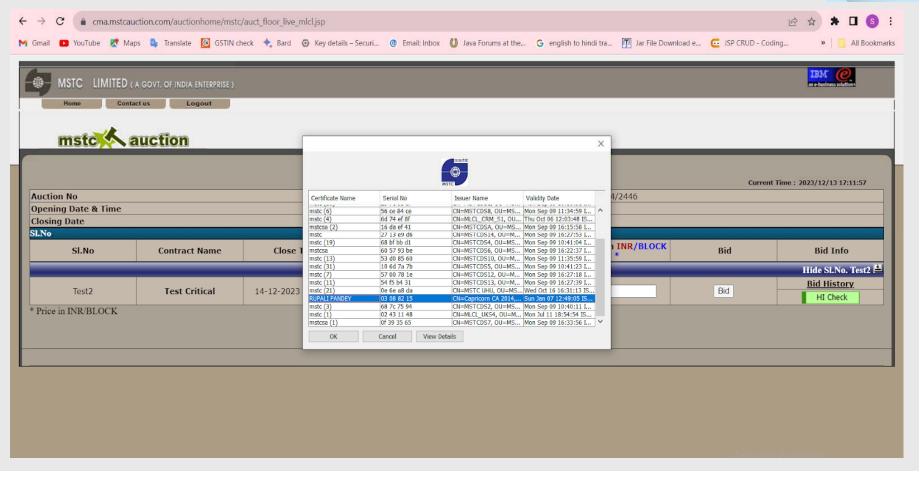
Bid Floor





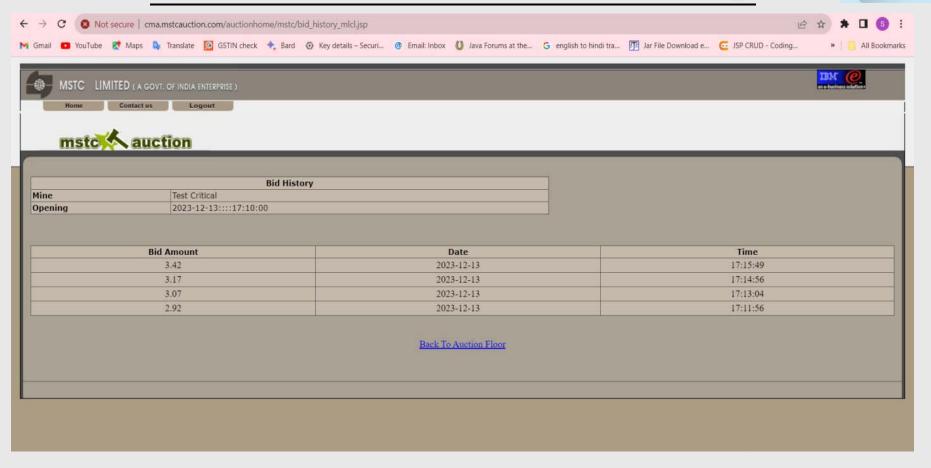
Bid Floor Contd.





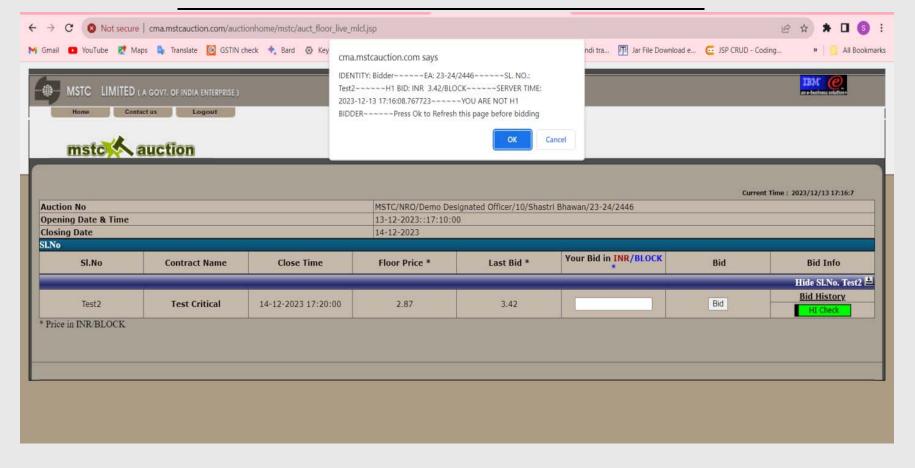
Bid Floor - Bid History







Bid Floor - H1 Check







URL for website :

https://mstcecommerce.com/auctionhome/mlcln/index.jsp

For any queries, kindly reach out to MSTC on the below mentioned numbers:

MSTC Help Desk : 01123212357, 01123215163, 01123217850

1. Setu Dutt Sharma, Senior Manager: 7878055855