

# **Request for Proposal**

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## **Setting up Lignite Beneficiation Plant on Turnkey basis at GMDC's Mata No Madh Lignite Project**

**RfP No: GMDC/Power/Lignite/49/2022-23**

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### **Answer to Pre-Bid Queries and Corrigendum Document**



**Gujarat Mineral Development Corporation Limited  
Khanij Bhavan, 132-Ring Road, Gujarat University Ground,  
Vastrapur, Ahmedabad- 380052**

**April 2023**

## Following Modifications/Clarification made in above mentioned RfP

M/s Yantriq Systems Pvt. Ltd

Sr. No.	Clause No	Pre- Bid Queries	Clarification/ Addendum / Corrigendum
1.	Section - I	Is MSME exempted from submission of EMD?	Relaxation in terms of submission of EMD shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of RfP.
2.	Section – II (2)	Is MSME exempted from payment of cost of tender?	Relaxation in terms of submission of RfP Processing Fee shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of RfP.
3.	Section -IV (4)	We participate in government tenders, now they have revised security deposit to 3% from 10%, request GMDC to consider the acceptance of the same.	As per the RfP
4.	Section -V (2)	Please provide area, perimeter and shape of the proposed land for plant before site visit. Possibly GPS location of site.	Sufficient land will be provided from available land as per mines plan.
5.	Scope of work 3 (o)	Please clarify ‘organic efficiency’ & define the test parameters to determine the same. Also, please explain if this will be sole criteria for the acceptance of the Sorting equipment	It is as per standard definition of organic efficiency (i.e. ratio of practical (actual) yield to theoretical yield)
6.	Scope of work 3 (g.ii)	On line moisture and ash analyzers, do you have any specification for this? we suppose, you want one for feed Lignite and other for the product? do you also need this instrument for waste also? Please advise. Kindly note this instrument will have significant impact on total project cost	We do not have specification for online analuzers, bidder may decide suitable equipment as per requirement. It is not required for waste.

<b>Sr. No.</b>	<b>Clause No</b>	<b>Pre- Bid Queries</b>	<b>Clarification/ Addendum / Corrigendum</b>
7.	Scope of work 3 (g.i)	What kind of provision for infrastructure for automatic sampling is required, please elaborate further. Do you require any automatic online sampler? or just space for such system is to be provided by us?	Bidder has to decide
8.	Scope of work 3 (g.iii)	Provision of necessary equipment for proximate analysis, do you need space to accommodate the testing facilities in future.	Bidder has to provide necessary equipments for carrying out proximate analysis of lignite and measurement of ash, moisture & GCV etc. in the laboratory of the beneficiation plant.
9.	Scope of work 3 (g.5.a)	Cost of the independent agency to be used by GMDC for quality check, which has to be shared by the plant operator. This undefined, so unable to make estimate in offer. Please clarify.	GMDC will appoint an independent agency for quality check. The cost paid to independent agency for quality check will be shared by GMDC and successful Bidder in 50:50 ratios.
10.	General	What will be the time for supplying raw Lignite, will the same be supplied in day shift or in all shifts?	In all shifts

### **M/s SHRI RAMANA INDUSTRIES**

<b>Sr. No.</b>	<b>Pre- Bid Queries</b>	<b>Clarification/ Addendum / Corrigendum</b>
1.	We are MSME Company, our Technical Consultant is also MSME. As per standard norm of Public Sector companies, cost towards purchase of RFP and EMD are waived. Kindly confirm whether the same is applicable for this Bid also.	Relaxation in terms of submission of EMD shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of Tender.
2.	As our Coal/Lignite beneficiation Technical partner had financial limitation to bid alone, we SHRI RAMANA INDUSTRIES alone would be bidding with Technical support of our partner. Necessary agreement in this regard between us will be uploaded during submission.	As per RfP

## M/s TeQworth Solutions & Services

Page No	Particulars	Description	Remark from Teqworth	Clarification
Pg : 26 (3)	Scope of Work : The Major scope of Work covers the following	The Work consists of Planning, Design & Engineering, Selection of necessary equipment and machinery, procurement, supply, construction, erection/ installation along with all associated civil & structural works; testing, commissioning of lignite beneficiation plant based on dry beneficiation technology	Raw coal feeding size & sleeve analysis ? Raw Coal Feeding arrangement by Ground truck hopper or Ramp design & construction for feeding coal lignite bunker	ROM size up to 1000 mm
	Throughput Capacity: 0.3 MTPA raw Lignite (as received basis).	Zero effluent discharge : The Beneficiation Plant shall be built, the Successful bidder, who will select the technology, type & design of the plant with zero effluent discharge subject to various statutory & regulatory provisions, as prevalent in India, environmental regulations and safeguards as per norms etc.	20KLD ETP Plant proposed for coal water discharge to green belt area	Bidder has to decide
		Addition to deploy Special Domain area Experts : The Bidder shall commit to deploy any special domain area experts in mineral for Mineral Beneficiation as required for this engagement without any additional cost.	Agreed but any specified qty. and number of experience person( if any ) from GMDC	Bidder has to decide
Pg : 26 (a)	a) BENEFICIATION PRODUCTS			
1	I. Lignite Process /Product Lignite	Right to change : GMDC reserves right to change the target quality parameter time to time base on requirement. Based on that Payment clause, LD Clause and Penalty clause will be revised accordingly.	System already design for current parameter proposed by GMDC , if any change in future system need to modified/ replaced -Kindly Note	As per RfP
3	Slurry	Successful bidder shall have to comply all statutory norms related with slurry.	Loader and tipper required for handling reject ( specified the location & distance from shifting of reject if any)	As per RfP
Pg : 27 (b)	b) SUPPLY OF RAW LIGNITE / LIGNITE			

1	O & M : Raw Coal	It is responsibility of successful bidder to reclaim the raw lignite from raw lignite stock yard. The receiving arrangement of the same for feeding to plant is to be done by Successful bidder along with weighbridge at suitable place. Calibration of all different types of weighing system used in the project shall be carried out by successful bidder as per standard norms.	Please specified the Number of location of weighbridge and capacity.  Kindly specified /mentioned	As per RfP
Pg : 27 (e)	e) STORAGE OF BENEFICIATED LIGNITE			
1	Stockpile for raw lignite 5000 T :	The Successful bidder shall provide covered storage facility for beneficiated lignite with suitable reclamation arrangement. Stacking, reclaiming and prevention of stored beneficiated lignite is Successful bidder's responsibility. The storage capacity shall be at least of 5,000 tonne.	Kindly clarified the type of storage of Beneficiation coal ( Silo /Bunker /S&R )	As per RfP
Pg : 28 (g)	g) QUALITY MONITORING CONTROL & RECORDING FOR COMMISSIONING AND TRIAL			
1	Automatic Samplers : Raw , beneficiated Lignite , Reject	Facilities for sample collection and adequate number of automatic samplers complete with all required accessories shall be provided by the successful bidder at all relevant points where quality parameters are required to be determined for raw lignite received, beneficiated lignite and rejects produced from the beneficiation plant.	Sample point need to clarified from Crush/fine / Beneficiation /reject coal	Bidder has to decide
2	On-line Analysers : Ash , Moisture  Raw lignite with bypass system	Besides above, on-line analysers for ash and moisture shall be provided on respective conveyors/points of beneficiation plant for instantaneous monitoring and recording of ash & moisture of raw lignite, beneficiated lignite and rejects. This shall also provide a tool to control the operation of beneficiation plant within the agreed parameters of the outputs. If Ash content in raw lignite is less than or equals to desired ash content ( $\leq 17\%$ ), Raw lignite shall be bypassed from process and delivered directly to beneficiated lignite dispatch hopper or beneficiated lignite storage yard with weight measurement.	On-line analysers for Crush and beneficiation coal and moisture (TM &IM) shall be done in lab only regular basis for raw /beneficiation & reject.  ( $\leq 17\%$ ), Raw lignite shall be bypassed from process and delivered directly to beneficiated -Agreed	As per RfP

4	Testing and Analysis of Raw lignite & Products:	An independent agency will be appointed and paid by GMDC for sampling and analysis of both raw lignite and products. However, 50% of the charge paid by GMDC to the independent agency will be recovered/ adjusted from successful bidder from their bills.	Number of sampling need to be clarified by GMDC ? Note - should be in scope of client.	As per RfP
Pg : 29 (h)	h) POWER SUPPLY			
1	Power Supply during Construction:	GMDC will provide electric power as required for construction of Beneficiation plant at one point within 100 m from plant premises However, withdrawal of power from the available source will be the responsibility of the successful bidder.	Income voltage and rating of power supply at plant premises?	415 V
2	Power Supply during Operation:	Successful bidder shall have to tap power from provided at one point within 100 m from plant premises. However, drawl of power will be responsibility of successful bidder with due permission and Power Purchase Agreement (PPA) with utility if require any to be carried out by Successful bidder. Requirement of power during construction & operation shall be furnished by bidder.	Kindly mentioned PPA permission ?	As per RfP
Pg : 29 (j)	j) ENVIRONMENT MANAGEMENT PLAN AND OTHER STATUTORY & REGULATORY CLEARANCES			
1	Environmental clearance scope :	Successful bidder has to obtain Environment clearance and other statutory clearances under Environment Protection Act 1986, Air (prevention & control of pollution) Act 1981, Water (prevention & control of pollution) Act 1974, other environment acts including their amendments and rules:	Time duration for EC permission not clear which impact the completion project duration(09 Month ) and there will lot of documentation required like EIA report /DPR report /CSR budget/ Costing of sheet /Public hearing /local liaising - Need to client scope successful bidder will assist for the same	As per RfP

2	All other Clearance Scope :	Obtaining all necessary statutory/ regulatory and other clearances etc. prevalent in the country including Environment Clearance and Forest Clearance shall be the responsibility of successful bidder. GMDC will give necessary assistance/ support to the successful bidder to the extent possible. Compliance of EC regulations and other statutory & regulatory clearances during the entire period of contract or extension.	Need to be clarified /Client scope	As per RfP
3	Periodic Submission of Environmental Clearance	Periodic submission of compliances of environmental clearances and returns under water cess act will also be the responsibility of successful bidder	Need to be clarified periodical submission of compliance which will be in Monthly /Qtr./Six/Year compliance.	As per the norms
Pg : 30 (b)	Compliance of environmental laws and rules:	Prospective bidders shall also elaborate slurry handling/ treatment section, if any, in detail in the Technical part of their offers.	Slurry will be NIL on dry beneficiation plant if any we will proposed Slurry tank at premises and treatment will be done with lime stone to maintain PH and slurry shifting agreement will be proposed with briquettes manufacture in future.	Dry beneficiation plant is to be selected
Pg : 30 (K)	k) PRODUCT SIZE			
	There is no product size limit, however successful bidder has to install the crushing / sizing equipment's as per process requirement.		Need to clarified from GMDC and ROM need to crush at curtain size which will feed to dry separation unit and final O/P of beneficiation will be 0 to - 50MM	Bidder has to decide
Pg : 30 , 31 (n)	n) LAND			

	<p>As the site proposed for 0.3 MTPA Beneficiation plant, GMDC shall provide land for setting up of Beneficiation plant on no charge basis. GMDC shall pay all taxes and impositions, as applicable in respect of the said land and buildings including the enhancement of rates and taxes payable either to Panchayat/ Municipality/ Government. The Successful bidder shall be responsible for surveying, soil testing, levelling and grading of sites and all pre-constructional development work.</p>		<p>Approx 20- 25 acre land required for the project and Kindly mentioned NGL /FGL at current site for area grading work.</p> <p>Agreed</p>	<p>As per RfP</p>
Pg : 32 ( Q )	q) REALISATION OF CHARGES FOR WATER, POWER GIVEN BY GMDC			
2	Rate of Power	<p>Normal demand charge: At the rate of actual payment of GMDC to PGVCL for the month For supply of Power: At the rate of actual payment of GMDC to PGVCL for the month The charges for water and power will be realised on monthly basis.</p>	Power charges /Rate/traffic ?	As per RfP
Pg : 33 ( R )	r) Other scope of works			
Pg : 33 ( v )	<p>The Successful bidder shall have to follow Mines Act 1952, MMR1961, Mines Rules1955, Mine vocational training rule 1966, Mine Creche rule 1966, DGMS circulars issued from time to time, Explosive rule 2008, Ammonium Nitrate rule 2012, MCR 1960 and MCDR 1988, MCDR 2015, Environment Protection Act, Contract Labour (R&amp;A) Act, Minimum Wages Act, P.F. Act and related Labour laws, applicable and maintain registers, records etc. in prescribed format, under the laws.</p>		Agreed /Support to be required from GMDC	As per RfP
Pg : 33 ( 4 )	Documents & Drawings to be submitted			



	<p>a. General layout plan.</p> <p>b. System drawings of the plant including overall pay-out, plot plan, single line diagram, process flow diagram.</p> <p>c. Sample GA drawing of conveyor system indicating plan, elevation, belt profile with idler location &amp; switches, foundation plan.</p> <p>d. System drawings of other associated systems like dust suppression, fire fighting &amp; plant cleaning, power supply, illumination, control, communication etc.</p> <p>e. Broad Pollution control measures for the selected technology</p> <p>f. List of major equipment.</p> <p>g. PERT Chart of construction activities for the period of construction.</p> <p>h. Operation and maintenance manual.</p> <p>i. Any other documents and drawing necessary for the plant.</p> <p>j. Manpower planning.</p> <p>k. The Successful bidder shall submit soft copies also</p>	Kindly clear document and drawing submit during bidding of project / after successful of bidder	After successful of bidder	
Pg : 34 ( 5 )	DURATION AND QUANTITY OF WORK:			
	<p>a) CONSTRUCTION PERIOD OF THE PROJECT</p>	<p>The Lignite Beneficiation plant Planning, Design &amp; Engineering, Selection of necessary equipment and machinery, procurement, supply, construction, erection/ installation along with all associated civil &amp; structural works, commissioning and successful testing, of Lignite Beneficiation plant shall be completed within 9 month from acceptance of LOI OR from the mutual agreed date OR from handing over the Lignite beneficiation plant Land to the successful bidder by GMDC and whichever is later.</p>	<p>Kindly clear the duration include/ excluding of EC permission.</p> <p>Project duration must be 12 month due to climate condition like two month of raining session work will hamper.</p>	As per RfP
Pg : 36 ( 11 )	QUALITY MONITORING CONTROL & RECORDING FOR COMPREHENSIVE O&M			
a	<p>Facilities for sample collection and adequate number of automatic samplers complete with all required accessories shall be provided by the successful bidder at all relevant points where quality parameters are required to be determined for raw lignite received, beneficiated lignite and rejects produced from the beneficiation plant. The provision of required infrastructure for sampling and testing as per BIS norms will be the responsibility of the successful bidder.</p>	<p>Excluding BIS norm /Any specified Sampling methodology from GMDC for coal sampling ?</p>	As per RfP	

Pg : 36 ( b , d )	Sizing & Screening	If Ash content in raw lignite is less than or equals to desired ash content ( $\leq 17\%$ ), Raw lignite shall be bypassed from process and delivered directly to beneficiated lignite dispatch hopper or beneficiated lignite storage yard with weight measurement and sizing and screening up to 150 mm. For that Process bypass system shall be designed by successful bidder. 5% of process charge shall be paid to successful bidder for bypassed raw lignite quantity.	Kindly specified the requirement from GMDC ? After crushing or before? Please provide ROM Size	As per RfP
4	Calculation of Charges	The total beneficiation charges payable in a billing period shall be calculated by multiplying the quantity of raw lignite on dry basis with agreed beneficiation charges.	Billing on raw coal Qty/ beneficiation coal Qty?	As per RfP
5	Charges payable	For payment of bypassed raw lignite charges payable in a billing period shall be calculated by multiplying the quantity of raw lignite bypassed with 5% of agreed beneficiation charges.	Kindly specified /clear the 5% beneficiation charges from by pass ?	As per RfP
*	In case ash content in the beneficiated lignite is found to be more than 17%, the penalty will be imposed as follows:  Penalty will be imposed @ Rs. 0.50 per tonne for every 0.1% increase in ash% above 17% in beneficiated lignite.		No penalty in moisture above 30% kindly specified from GMDC	As per RfP
B	Penalty for not meeting in Organic Efficiency			
*	The Organic Efficiency (OE) is not less than 95% OE below 95% shall not be acceptable. In case, OE is less than the 95% during operation, the penalty for lower OE shall be worked out and it will be equivalent to double the price of loss of beneficiated lignite on this account. Any decrease in organic efficiency below the fraction of 0.05% shall be ignored whereas variation in organic efficiency for 0.05% and above will be treated as 0.1%.		Kindly specified the organic eff . Monitoring /method. organic efficiency below the fraction of 0.05%- Agreed Organic eff above will be treated as 0.1%.-Penalty clause.	As per RfP
Pg 42 (d)	d) Maximum applicable Penalty:			
	The upper ceiling limit for total penalty shall be maximum 25% of the total Contract Value of O & M.		Should be not more than 10% of total contract value.	As per RfP