

**Request for Proposal
for**

**Selection of Contractor for Comprehensive
Operations of Boiler, Turbine, Generator and
Auxiliaries, and Balance of Plant (BoP) of GMDC's
2x125 MW Akrimota Thermal Power Station (ATPS)**

Answer to Pre-Bid Queries and Corrigendum-IV



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

Responses to pre-bid queries

Clarifications required from M/s GMDC					
Sr. No.	Page No.	Clause No.	Description	Pre-bid query/ Clarification	Response / Addendum / Corrigendum (If any)
01	6/77		Last date of submission of bid through online and Last date of submission of physical documents i.e., EMD, Tender Processing Fee etc. 16/01/2024 up to 18:00 hours	We request for extension by one week.	As per the latest corrigendum – 30 th January.
02	27/77	12.7	Any additional software ... successful bidder.	Who is to bear cost of additional software.	As per RfP.
03	27/77	12.10	Perform Yearly Energy Audit plant operations	Will it be at additional cost or GMDCL will pay directly?	As per RfP – within successful bidder's scope.
04	27 & 33/77	12.21 & 21	Training	Is there any training calendar, which successful bidder to follow?	Successful bidder must plan, submit the calendar and get it approved by GMDC team. The successful bidder must ensure on-going and refresher training (technical, safety, performance, skill) on-Site/off-site for all successful bidder's staff as per the approved calendar.

05	27/77	12.22	Undertake periodic Performance tests within a reasonable time.	Will it be at additional cost or GMDCL will pay the cost directly?	As per RfP – within successful bidder's scope.
06	30/77	7	Logs, registers, tags, stationeries, etc.	Hope all the formats and stationaries shall be provided by GMDC.	Log book to be maintained as per RfP.
07	31/77	9	Electrical and Instrumentation Laboratory along with calibrated testing instruments and equipment's	Normally testing is to be carried out by Maintenance people. Need to understand the scope with further clarity, including calibration of field instruments and standard instruments.	As per RfP
08	31/77	10	Chemical Laboratory along with analyzers, calibrated testing instruments, machineries d equipment	Hope GMDC is to take care of calibration of standards.	As per RfP
09	32/77	11	Sewage and waste discharge system	As far as operation is concerned, it is understood, but please let us know what type of support is required for maintenance activities?	Please refer to updated operations responsibility matrix below.
10	32/77	14,15,16	Disposal of solid waste, scrap, used/waste oil.	Whether GMDC will provide vehicle with manpower for loading & unloading for handling & transportation purpose?	As per RfP
11	33/77	18	Major Overhaul support	This is to be managed by existing people or separate teams are to be deployed. In case	As per RfP.

				of separate team, same will be at additional cost.	
12	33/77	19	EOT Crane	In the manpower list, crane operator has not been mentioned. Whether EOT operator will be added to the list of 94 people as per Annexure-E?	As per RfP.
13	33/77	22	Residential accommodation	Need to know how many and what type of accommodations will be provided by GMDC and what are the tariff?	Accommodation to be provided as per available infrastructure at ATPS as per GMDC policy.
14	34/77	23	Medical facilities at dispensary / colony at nominal cost basis	Whether annual health checkup of people be done at GMDC- Medical? What will be the charges per head?	Successful bidder to bear the cost of annual health check-up - to be done outside of GMDC ATPS Medical. Regular medical facilities shall be provided as per RfP.
15	39/77	18.1	License under Factory Act	Labour license will be obtained. Is there anything except labour license?	As per RfP.
16	61/77		Annexure-E	Which are the paid holidays; Like weekly off/ PH/NH etc. Whether on those days, if somebody works, they will be allowed OT or C. Off?	As per RfP.

Updated Operations Responsibility Matrix

S. No.	Description of Work /Activity	Responsibility of GMDC	Responsibility of Successful Bidder
1.	Overall operation of plant (excluding lignite, lime, and ash handling plants)	GMDC will provide necessary guidelines / standards references / system and plant details, drawings, and manuals	Operation of total plant including 220 KV/11 KV/11kV switchyard and other systems and utilities
2.	Start-up power & Back-up power		Resuming power, distribution & coordination with all load centers and GUVNL grid sub-station (GSS) end, will be in the successful bidder's scope
3.	Power sale to GUVNL	Power sale invoicing and interface with GUVNL	Inputs to GMDC for raising power sale invoices
4.	All type of fuel required for operations	GMDC to arrange all type of fuels	Operation shall be in the successful bidder's scope
5.	Water quality & quantity	GMDC will provide raw water from the nearest Kori creek through a 1.4 KM long sea water intake channel up to sea water pump house	Operation shall be in the successful bidder's scope including connected line/system, with in boundary limit defined. Successful bidder's operator will check all the parameters in their lab and take necessary steps to ensure correct quality of water is fed to plant.
6.	Bulk chemicals, lab chemicals & other raw materials	GMDC will provide all bulk chemicals, lab chemicals and other raw materials	Quality inspection /testing, utilization, disposal till designated location, accounting and reporting are in the successful bidder's scope
7.	Logs, registers, tags, stationeries, etc.	GMDC's scope with necessary printing machines for documentation/PTW system at site	Log book filling, reporting in register, application of tags/LOTO at required location is in bidder's scope
8.	Safety, Lock-out Tag-out (LOTO, PPE, Special PPE, etc.	Nil	All items are in the successful bidder's scope including requirement based in system and guideline changes as per GMDC's guidelines and standards
9.	Electrical and Instrumentation Laboratory along with calibrated testing	GMDC will provide existing site facility with Electrical and Instrumentation testing	Operation & Maintenance and upkeep of all the facility provided by GMDC including

	instruments and equipment's	instruments and equipment	scheduled testing and calibration against NABL standards. Facilitate with required additional site testing instruments and equipment as required for site in time bound manner as and when required. In case of damage or theft of any of the facility provided by GMDC, the same shall be replaced by the successful bidder with reputed GMDC approved make /model.
10.	Chemical Laboratory along with analyzers, calibrated testing instruments, machineries and equipment	GMDC will provide existing site facility lab chemicals and testing standards	Operation & Maintenance and upkeep of all the facility provided by GMDC including scheduled testing and calibration against NABL standards. Facilitate with required additional site testing instruments and equipment as required for site on time bound manner as and when required. In case of damage or theft of any of the facility provided by GMDC, the same shall be replaced by the successful bidder with reputed GMDC approved make /model.
11.	Waste water and waste from cooling Tower, boiler blowdown and water treatment	GMDC will provide necessary guidelines	Successful bidder must operate the system including waste handling and disposal till the designated location as per GMDC guidelines
12.	Disposal of solid waste	GMDC will provide necessary guidelines	Successful bidder must dispose of all kind of solid waste as per GMDC guidelines to the designated location and maintain and submit record periodically as required by GMDC.
13.	Scrap disposal	GMDC will provide necessary guidelines	Successful bidder is responsible for segregation, shifting, storage and disposal of scraps to the designated location as per GMDC guidelines
14.	Used/waste oil and lubricants disposal	GMDC will provide necessary guidelines	Successful bidder is responsible for segregation, shifting, storage and disposal of used/waste oil and lubricants to the designated location as per GMDC guidelines

15.	Power evacuation	GMDC will provide necessary guidelines, standards, regulations and statutory guidelines	Successful bidder is responsible for complete operations of 220KV switch yard, transformers, capacitor banks, MRSS (Distribution system) including Grid Feeders, Double circuit Transmission lines. This includes coordination, scheduling, operation / power distribution.
16.	Major overhauling	GMDC will provide timeline and necessary guidelines	Coordination /support /facilitation required for major AOHs to be provided by the successful bidder
17.	EOT /Hoist/Lifting facilities	GMDC shall provide all available fixed and movable lifting facilities as it is condition	Successful bidder is responsible for operations of the same and ensure its healthiness
18.	Operation workforce	GMDC will give necessary guidelines	All the workforce resources required for BTG BoP normal operations. Quality and quantity of workforce profile shall be per Annexure E.
19.	Training and development of operation workforce	GMDC will provide necessary guidelines	Successful bidder is responsible for necessary trainings as per GMDC guidelines including technical, HSE, systems, integrated management system, asset optimization, etc. trainings
20.	Residential accommodation	GMDC will provide accommodation for the operations workforce in the plant township on a chargeable basis and as per availability	Co-ordination in allotment, upkeep, cleaning, shifting to the facilities will be in successful bidder's scope
21.	Medical facilities at dispensary / colony at nominal cost basis	Medical facilities as available in GMDC ATPS will be provided by the GMDC on chargeable basis	Successful bidder must take care all required medical facilities for the workforce who work for and on behalf the successful bidder
22.	Evaluation of plant performance and recommendations	GMDC will provide reference standards	Successful bidder shall regularly carryout performance evaluation of plant, equipment and systems and to provide recommendations and implement to improve the performance
23.	Emergency DG operation	GMDC will provide fuel for operation of DG and necessary guidelines. All engineering spares will be provided by GMDC	Operation of emergency DG is in the scope of successful operator
24.	Major modifications / Capex installation	GMDC will provide and implement major	Successful bidder must coordinate and provide all

		modification and capex installation	necessary support for implementation
25.	ERP Interface / Access	GMDC will provide existing facilities and authorization for operations	Successful bidder shall ensure authenticated usage with trained workforce
26.	IT, Work Clearance Management (WCM) / Permit to Work (PTW), Asset Optimization (AO), Health Safety and Environment (HSE) management systems, etc	GMDC will provide all required access /credentials for O&M operator and will provide all necessary guidelines and support	O&M operator shall have trained workforce to ensure effective implementation and practices of these systems and ensure compliance to the same

Appendix I: Water Quality Compliance to be revised as follows:

Appendix I: Water Quality Compliance

1. The standard parameters for water quality in various systems of the plant are as below:

	Desalination Plant	DM Plant	Feed water system	Boiler drum	RO Plant
Conductivity	< 10 μ mho/cm	< 1 μ mho/cm	< 5 μ mho/cm	< 100 μ mho/cm	
pH	6.5-7	6.5-7	8.7-9.2	9.2-9.8	6.5-8.5
Silica content	< 20 ppb	< 20 ppb	< 20 ppb	<550 ppb	-
Ammonia content	-	-	< 0.5 ppm	-	-
Hydrazine	-	-	< 20 ppb	-	
Phosphate	-	-	-	< 6 ppm	
Chloride	-	-	-	< 5 ppm	<250 ppm
TDS	-	-	-	-	<1000 ppm

2. KPI compliance calculations –

Date	Shift A - 1	Shift A - 2	Shift B - 1	Shift B - 2	Shift C - 1	Shift C - 2	% Compliance
<i>Formula</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	$G = \frac{(a+b+c+d+e+f)*100}{(19*6)}$
01-Jan-2024	15	15	16	15	14	14	78.07%
02-Jan-2024	16	16	15	12	13	14	75.44%
...
31-Jan-2024	16	16	14	12	15	15	77.19%
Average							

$$\text{Average monthly compliance} = \frac{\text{Compliance of (Day 1 + Day 2 + \dots + Day N)}}{N}$$

Note –

1. a, b, c, d, e, f is the number of water quality parameters out of 19 that fall within the respective desired range as mentioned in the table above.
2. Water quality measurements are to be done twice every 8-hour shift (shift A, shift B, shift C) and the number of parameters falling within the standard range mentioned above would be counted.
3. In situations, where the plant is not operational, the water quality parameters would be considered to lie within the standard range.

The successful bidder must ensure sufficient water output from each water treatment facility / system (pre-treatment plant, chlorination plant, desalination plant, de-mineralization plant, reverse osmosis plant) for continuous supply of treated water of desired quality to plant for smooth operations.