

Corrigendum

Tender Notification

NIT NO: AEML/MDB/2018-19/003

For Supply, Installation, Testing and Commissioning of SCADA RTU at AEML, Mumbai.

Change in Scope of work

Section II

A. General

2. Scope of Work –

The scope shall include Design/ Manufacture/Testing(Integrated Factory Acceptance test – IFAT) at works conforming to the Technical Specifications enclosed along with Packing, Forwarding, Freight and Unloading, proper stacking at Purchaser’s stores/Site, Site Commissioning and SAT (Site Acceptance test).

Section VIII

D. BoQ Material 6 RTU with sundry consumable

E. BoQ Services 6 RTU with Scope of Works

Should read as:-

Section II

A. General

2. Scope of Work –

The scope shall include Design/ Manufacture/Testing(Integrated Factory Acceptance test – IFAT) at works conforming to the Technical Specifications enclosed along with Packing, Forwarding, Freight and Unloading, proper stacking at Purchaser’s stores and SAT (Site Acceptance test).

Section VIII

D. BoQ Material 6 RTU

E. BoQ Services 6 RTU

Following documents are part of this corrigendum

A. BoQ Material 6 RTU

B. BoQ Services 6 RTU

Sr. No.	SAP Code	Description of material requirement	UoM	Total Qty
1	2100180033	SCADA Station RTU Type - R4	Nos	1
2	2100180534	SCADA Station RTU Type - R3	Nos	4
3	2100180535	SCADA Station RTU Type - R2	Nos	1

BOQ of the material supplied with each RTU - SCADA Station RTU

Addendum to Basic Specification no. SP - RTU - 01 - 05
BOQ for RTU

Basic Modules	UoM	RTU Type -R4 for 4 transformer	RTU Type -R3 for 3 transformer	RTU Type -R2 for 2 transformer
Panels	Nos	1	1	1
No. of ports for Slave Devices -- Serial port with Processor Level Redundancy , configurable RS 485 / 232	Nos	12	10	8
No. of ports for reporting to Control Center -- Ethernet ports with Processor Level Redundancy	Nos	4	4	4
No. of ports for slave devices(61850 IED) -- Ethernet ports with Processor Level Redundancy	Nos	12	10	8
19 " Processor cum I/O Rack	Nos	1 Set	1 Set	1 Set
Ruggedcom Ethernet Switch with 24 ethernet port and 4 nos. Fiber port (Dual Power supply 110V DC)	Nos	10	8	6
Poweder Coated MS Box for fixing Ethernet Switches	Nos	4	3	2
Digital Input channel	Nos	128	96	64
Digital Output channel	Nos	16	16	8
Analog Input channel	Nos	16	16	8
Interposing Relays (2NO+2NC) with Diodes	Nos	16	16	8
Power Supply Module (redundant) for Processor cum I/O Rack	Nos	1 Set	1 Set	1 Set
GPS Antenna with accessories	Nos	1 Set	1 Set	1 Set
Redundant DC to DC Converter Unit (15 Amps)	Nos	1	1	1
Test tool for Relay parameterization and RTU configuration	Nos	1 Set	1 Set	1 Set
CAT6 CABLE	Mtrs	1400	1000	800
D-LINK RJ 45 Connector	Nos	200	175	150
Aditonal 110VAC CMR	No	12	9	6
Aditonal 230VAC CMR	No	12	9	6

Note :

- Licences required - IEC 104/101, IEC 61850 , Modbus-M, SPA-M, IEC 103M, DNP3-M & PLC programming facility
- Services for Data Concentrator / RTU configuration and Testing & Commissioning(Integration of all IED s).
- Station supply 220V or 110 V DC available. Power supply module should take input from 80-250VDC -- all necessary Voltage conversions to be taken care by RTU Vendor
- "Set" implies quantity required for successful integration & shall be freezed during Detail Engineering
- All RTU/PLC utility and firmware shall be submitted to R-Infra as part of the P.O.
- Redundant CPU for IEC 61850 IEDs
- Spare equivalent to the value of 10% of total cost, which shall include all critical component like Redundant processor card with all licenses, Chasis etc. hence price of individual componenet shall also be provided. List of Spares shall be finalised at the time of order.
- Complete I-FAT (Integrated FAT) at Relay Manufacturer's location

General :

Any component or accessories required for successful commissioning of the RTU set shall be deemed to be included in the scope of Vendor's supply irrespective of specific mention in Specifications or Station / Bay RTU's BOQ of main items.

Sr.No.	Description of work	UOM	PR Quantity	Reference
1	Commissioning and Testing of SCADA Panel at Vikhroli R/S	LS	1	Work per R/S with 4
2	Commissioning and Testing of SCADA Panel at Poisar R/S	LS	1	Work per R/S with 3
3	Commissioning and Testing of SCADA Panel at Andheri R/S	LS	1	Work per R/S with 3
4	Commissioning and Testing of SCADA Panel at 220kV Aarey R/S	LS	1	Work per R/S with 3
5	Commissioning and Testing of SCADA Panel at Kurla R/S	LS	1	Work per R/S with 3
6	Commissioning and Testing of SCADA Panel at Mind Space R/S	LS	1	Work per R/S with 2

Sr.No.	BOQ of Commissioning Work Per R/S	UOM	Work per R/S with 4 Transformer	Work per R/S with 3 Transformer	Work per R/S with 2 Transformer
1	Engineering, prepare & submit drawings, documents etc.	Nos	1	1	1
2	Preparation of configuration Switchgear/arrangement specific for smooth changeover of legacy system to new system.	LS	1	1	1
3	Downloading the same in RTU	LS	1	1	1
4	Assisting Local RTU testing and point to point testing with Control Centre for remote operation	LS	1	1	1
5	Handing Over the Prepared RTU File to AEML SCADA Team.	LS	1	1	1
6	Integrated FAT for all Relays before Despatch at Relay Works	LS	1	1	1
7	Dedicated competent person to supervise the job for quality of job and adherence to safety	Nos	1	1	1

Date Extension notice

1.4 Bid details

- a. Techno- Commercial Due Date & Time of Submission:20.11.2018 at 16:00 Hrs IST.
- b. Bid Opening Date & Time: 24.11.2018, at 16:00 Hrs IST

Should read as:-

- a. Techno- Commercial Due Date & Time of Submission: 20.12. 2018, at 16:00 Hrs IST.
- b. Bid Opening Date & Time: 24.12.2018, at 16:00 Hrs IST