



ASSAM ELECTRICITY GRID CORPORATION LIMITED
OFFICE OF THE MANAGING DIRECTOR

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No AEGCL/MD/Tech-721/SRSJ/200MVA/2017-18/31

Dtd :30.01.2018

Corrigendum

IFB No. AEGCL/MD/Tech-721/SRSJ/200MVA/2017-18/5(IFB)

Bid Identification No.: AEGCL/MD/Tech-721/SRSJ/220MVA/2017-18/2(BID)

Amendment:

The following clauses of the bid identified against the above referred IFB and Bid is hereby amended to be read as follows:

Vol. 2, Clause 4.12.0 Spares/ Testing & Maintenance Equipment for GIS:

Spares:

Bidder shall supply following spares free of cost.

- (i) 10% extra gas for each module.
- (ii) Special tools, tackles & spanner required during commissioning, operation and maintenance.
- (iii) Viewing mechanism (if required) so as to view the position from accessible point on ground.

Testing & Maintenance Equipment

Bidder shall supply following testing and maintenance equipment:

- (i) SF6 gas leak detector -1 set
- (ii) Portable Gas filling and evacuating plant (service Cart) suitable for module with required hose, adapters, stand, etc and all accessories. -1 set.
- (iii) Electrolytic hygrometer complete with piping (dew point measurement kit) -1 Set

Vol. 2, Annexure-I SCHEDULE OF QUANTITY (SUPPLY)

Item No.10.2 (Partial Discharge Monitoring System.): Deleted

The same is also reflected in the "Supply Price Schedule" to be filled by the bidder in the e-tender portal.

Appendix – (B): "Specification for Testing & Maintenance Equipment for GIS" enclosed.

This supersedes earlier corrigendum published vide No AEGCL/MD/Tech-721/SRSJ/200MVA/2017-18/30 dtd :25.01.2018

All other terms and conditions shall remain same


Chief General Manager (T&T)

Assam Electricity Grid Corporation Ltd

Memo No AEGCL/MD/Tech-721/SRSJ/200MVA/2017-18/31(a)

Dtd :30.01.2018

Copy to:

1. The Managing Director, AEGCL for favour of his kind information.
2. The AGM -IT, O/o the MD, AEGCL, for publication of the notice in AEGCL's Website.


Chief General Manager (T&T)

A) SF6 gasevacuation, recovery and refilling unit

1. Able to do the following operations
 - a. Recovery of SF6 gas from equipment/cylinders at 1 mbar vacuumed pressure
 - b. Storing of recovered gas internally (at least up to 160 kg) and unlimited external storage
 - b. Vacuuming of the equipment/cylinder before the filling
 - c. Recharging/Refilling of gas
 - d. Should be able to easily transport the unit from one place to another
2. A compressor unit (with required couplings and at least 3m long power cable)
 - a. 3.2 m³/h, 50 bar
 - b. Operating voltage 208-240 V AC / 50 Hz (single phase)
 - c. Analog/Digital display
3. A vacuum compressor unit for SF₆ gas recovery (A Suction pump) (including a pressure sensor) – with required couplings
 - a. Oil free suction pump for recovery of SF₆ gas 3 m³/h, Final vacuum <1 mbar
 - b. Operating voltage 220-240 V AC / 50 Hz (single phase)
 - c. Digital vacuum indication
3. A vacuum pump unit for evacuation of air – with required couplings
 - 25 m³/h, final vacuum < 1 mbar
 - Digital vacuum indication
 - Operating voltage – 208-240 V AC / 50 Hz (single phase)
4. A pre-filter unit – with required couplings
 - Consists of a particle filter and dry filter
 - Pe = 10 bar
 - 0.1 micron level
5. Operating panel – with required couplings
 - Should have gauges showing the relevant pressures and should have analogue/digital displays as well as valves/switches as required for easy operation.
 - have a transport case to avoid damages to the panel
6. Cart/Trolley
 - Should be able to mount all the above components/should have all above mentioned components mounted and should be able to easily drag along the rough surfaces (on stones) of the switchyard.
7. Storage tank
 - 300 l /50 bar pressure tank with capacity of 280 kg.



B) SF6 GAS LEAK DETECTOR

The SF6 gas leak detector shall comprise of circuit breaker operation unit/GIS Module, programme unit, travel analyzer, analyzer software and transducers and other accessories.

1. The detector shall be free from induced voltage effects.
2. The sensing probe shall be such that it can reach all the points on the breaker/GIS module where leakage is to be sensed.
3. Sensitivity: 5 gm Sf₆ per year.
4. Measuring Principal: High Voltage Ionization.
5. Accessories: (1) Spare Sensors – 3(three) nos.
(2) Carrier Case

C) Supply of SF6 Gas Analyzer

Technical Specifications:

The instrument shall have following features:

1. It shall be portable type and light weight suitable for onsite SF6 Gas quality measurements in the EHV/HV GIS substations network related to Electricity Transmission Department. The typical areas of application include but not limited to the following:

- ☐ 400kV to 11kV Substations
- ☐ SF6 GIS (Gas Insulated Switchgear) and GIB (Gas Insulated Bus duct)

2. The measurements shall be non-invasive so that it can be made with the GIS/Equipment in live conditions and the measurement shall be with built in recovery of SF6 i.e. the equipment shall have a pump back feature with built in pressure regulation and measurement

3. The single unit shall be capable to analyze the following parameters in SF6 gas

- i. SF6 gas percentage
- ii. Dew Point & Moisture Content in PPMV

4. Input pressure indication in bar pa or pe, psi, kPa, MPa

5. The standard accessories kit with Transport case (trolley version if available for devices **with** gas return system) sufficiently long connecting hose **with** couplings and power plug arrangement along with with sufficiently long connecting cable, manual shall be provided with equipment.

6. The instrument shall be capable of using small amount of gas for each measurement and shall be suitable for measurement on SF6 breakers and all other compartments which hold less gas.

7. The Ranges /resolution for Measurements,

Purity

- a. Measurement range: 0-100%
- b. Accuracy: +/-0.5 vol. %
- c. Response time: Less Than 2 Minutes

Moisture

- d. Measurement range: -60 to +20 °C
- e. Accuracy: +/-2°C (at > -40 °C) and +/-3°C (at < -40 °C)

f. Response time: Less Than 5 Minutes

8. Display & Alarms,

- a. The display shall be color touch screen suitable for viewing in the sunlight as well as in the night time
- b. It shall have digital display to show the recorded reading

9. Power Supply,

- a. It shall have provision to use on AC 240 V 50 Hz supply
- b. It shall have automatic shut off feature if more than 10 – 15 mins have elapsed.

10. Environment Conditions: Suitable to be operated for:

- a. Operating Temperature:-10°C to +55°C

11. Weight:

- a. The weight of the main instrument shall be less than 35 kg.
- b. The supplier shall also mention in his offer the weight of carry case including the main instrument and other accessories

12. It shall be supplied with carry case which shall house the Main Instrument, Operating Manual, Training Material and all other accessories as stated in this specification. The carry case shall be light weight, small and portable so that it is convenient to be carried to site on daily basis. The Main instrument shall be adequately protected for rough use and handling on daily basis

