

INNOVA/AFL/AMC/22032021-02

Date:

To
The Managing Director

Subject: Offer for schedule maintenance & service for 33KV Substation.

Dear Sir

Innova Engineering Ltd is the manufacturer and assembler of advanced & reliable distribution & power transformer and panel. We are offering a proposal of schedule maintenance & service of installed substation in your reputed organization.

Why Need To Schedule Maintenance & Service for Substation

- To avoid unwanted accident like fire hazard, burn & damage of transformer, switchgear, circuit breaker, magnetic contactor, relay, capacitor & other equipment/device of substation.
- To avoid extra electricity consumption.
- To avoid fine for low power factor from utility department.
- To avoid unwanted electric shock.
- Schedule maintenance increase overall life time of substation.
- Schedule maintenance is important for smooth, sustainable & reliable production.

Price Proposal for Schedule Maintenance & Service**For Per Yearly Service:**

SI No.	Sub-Stations	Fees	
		Inside Dhaka	Outside Dhaka
1	3MVA 33KV Portion	50,000.00	55,000.00
2	4MVA 33KV Portion	60,000.00	65,000.00
3	5MVA 33KV Portion	70,000.00	75,000.00
4	6.25MVA 33KV Portion	80,000.00	85,000.00
5	7.5MVA 33KV Portion	90,000.00	95,000.00
6	10MVA 33KV Portion	1,10,000.00	1,20,000.00

Maintenance & Service Schedule

Scope of Service contain two schedule which are mention below

Schedule 1 – Equipment List

Schedule 2 – Scope of Services

SCHEDULE 1

Equipment List: To be prepared after approval of (Client).

1. 33KV Isolator
2. 33KV Lightning Arrester
3. 33KV PT
4. 33KV VCB
5. 33KV CT
6. 33KV Transformer
7. 33KV OLTC
8. RTCC Panel
9. Control & Relay Panel
10. Battery Charger
11. Battery Bank
12. Mash Earthing

SCHEDULE 2:

1. WORK TO BE CARRIED OUT PER YEAR:

1.1 33KV Isolator: Checking mechanical operation, joint, nut bolt tightness of 33KV Isolator, provide lubricant in mechanical function.

1.2 33KV Lighting Arrester: checking of 33KV LA is damage or it working & also checking earth continue conductor & joint of conductor.

1.3 33KV Potential Transformer (PT): PT is connected parallel with conductor. It need to check tightness of joint with conductor & also need to check control box , control cable , control cable & ckt test.

1.4 33KV Vacuum Circuit Breaker (VCB): checking of trip ckt, close ckt, relay setting update (if need) manual operation, tightness control cable in connector.

1.5 33KV Current Transformer (CT): CT is connected series with conductor. It need to check tightness of joint with conductor & also need to check control box, control cable.

1.6 33KV Transformer: Checking of all sensor like, temperature sensor PRD, OTI, WTI, Buchlz relay, Silica gel, Oil Test, OLTC Cleaning (If outdoor OLTC) Checking all control ckt in marshaling box.

1.7 33KV OLTC: checking manual working mechanism of OLTC, checking control ckt of OLTC marshaling box , Oil test of OLTC (If outdoor type OLTC)

1.8 33KV RTCC Panel: Checking all circuit of auto & remote tap changing.

1.9. Control & Relay Panel: Checking trip ckt, close ckt, relay operation, & all indication.

1.10 Battery Charger: Checking circuit & indication.

1.11 Battery Bank: checking individual voltage of of each battery, tightness of each connection & discharging time.

2.12 All protection & metering Device: Checking & update of setting (if required) all metering device Ammeter, Voltmeter, Multimeter, relay.

1.13. Mesh Earthing: checking earthing resistance of individual earth pit & also check to insure earth conduction is connected in proper point.

NOTE:

- i). For the above maintenance any or all (routine, special) Tools, plants, Instruments etc. and consumable items viz. grease, oil, cloth, etc. needed are to be arranged by the contractor at his own cost. Institute will not provide anything to the contractor. Filtration of transformer oil is not included in the contract. However, any repair etc. needed is to be carried out by the contractor under the contract. Material for replacement will be provided by customer **(client)**.
- ii). The rates quoted will not include all the necessary T and P/Labor/civil work.
- iii). Any material etc. needed will be provided by Customer **(client)**. If it is required to take permission from Govt Authority to dig anything, that permit must be taken by Customers.

Thanks & Regards



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