

Mandatory Spare parts including Maintenance Equipment

Supply of complete mandatory spare and spare parts of transformer, switchgear, control equipment, protection relays, meters, erection & test equipment. Printed catalogue, operation and service manual are to be provided. The materials shall have to be handed over to the designated store as per instruction of the Engineer.

2. O & M training for new substations:

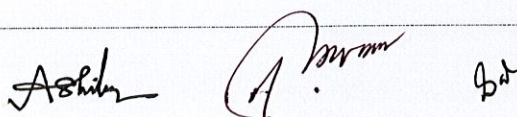
The Contract Price shall include all costs of training and the instruction of staff on site for the following:

Local Training: On-site instruction by the manufacturer's engineer on operations and maintenance of the (i) HV switchgears & transformers (ii) protection & Substation automation system (iii) fiber optic multiplexer. Each program shall be arranged for a period of two(2) weeks and for fifteen(15) PGCB engineers.

For on-site instruction training, the contractor shall not be responsible for any costs for trainees except meal and the aforementioned onsite trainings shall have to be arranged at any Substation's respective local Grid Circle or GMD area with the consultation of Superintending Engineer, Grid Circle, PGCB.

For Transformer & HV substation training, the trainer shall be experience of at least 400kV Class, 520MVA Substation & transformer design experience for at least 5 years. For other training, the trainer shall be experience of related field experience for at least 5 years. The CV of proposed trainers shall be submitted to employer & taken approval during execution. If the proposed trainer does not meet the minimum requirements mentioned here, the Employer shall preserve the right to ask the contractor to change the trainer as per requirement. All the trainers shall be certified by OEM.

The Contractor shall have to submit the Schedule of each Training and taken approval from the Employer prior 3 months before conducting each Training.



3. Factory acceptance tests:

The Contractor shall at its own expense carry out at the place of manufacture all tests and inspections of the Plant and any part of the Facilities as are specified in the following tables or any other part of the Contract.

The Employer and the Project Manager or their designated representatives shall be entitled to attend the aforesaid test and inspection, provided that the Employer shall bear all costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

SL	Description
1.	Transformers
2.	Circuit Breaker
3.	Disconnecter
4.	Instrument Transformer (PT)
5.	Instrument Transformer (CT)
6.	Lightning Arrester
7.	Control, protection & SAS
8.	DC system

The Contractor shall have to submit the Schedule and factory acceptance test format of each stated above and taken approval from the Employer prior 3 months before conducting each factory acceptance test. Factory acceptance test shall also be inspected by contractor's representative.

Ashish *[Signature]* *[Signature]*