



BHARAT HEAVY ELECTRICALS LIMITED
TRANSMISSION BUSINESS ENGINEERING MANAGEMENT



**400kV GIS Substation Package SS02 associated with Establishment of
Khavda Pooling Station-2 (KPS2) in Khavda RE Park**

Scope, Bill of Quantity, Specific Technical Requirements

1.1 Scope

This technical specification covers the requirements of (1.) design, type testing, engineering, fabrication, manufacturing, shop assembly, inspection and testing at manufacturer's works, proper packing, supply and delivery to project site, (2.) supervision of material reconciliation, installation / erection, (3.) execution of site testing & commissioning along with necessary kits, tools & equipment , putting GIS with LCC & its Accessories into successful operation complete with all materials special spanners, special tools & tackles, any specific required ancillary services, complete in all respects for efficient & trouble-free operation mentioned under this specification.

The equipment is required for the following project:

Name of the customer : **PGCIL**

Name of the project : 400kV GIS Substation Package SS02 associated with Establishment of Khavda Pooling Station-2 (KPS2) in Khavda RE Park through Tariff Based Competitive Bidding (TBCB) route.

Site : **400kV GIS Substation at Khavda**

1.2 Specific Technical Requirement.

Existing 400kV GIS is supplied by M/S Toshiba at Khavda Site. Offered item as per below BOQ shall be identical/Matching to existing supplied items. Bidder to ensure compatibility with existing supplied 400kV GIS.

Bidder scope is complete supply along with supervision of erection and testing & commissioning of complete system as per requirement. All necessary tools/special kit/gas cart is in scope of Bidder. Bidder is requested to access the complete scope of work and quote accordingly.

Following Items/Scope is excluded from bidders' scope.

- i) Manpower for Erection Work.
- ii) Hydra/Farana
- iii) Scaffolding
- iv) Power Supply.



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1.3 Bill of Quantities.

S.No.	Item Description	Unit	Qty	Remark
1.	SUPPLY- GIS: 400KV, 63KA FOR 1S, 3000A, SINGLE PHASE GAS INSULATED BUS DUCT	Mtr	6	
2.	SPARES- GIS: 400KV, CORONA SHIELD	No	1	Corona shield Ring of SF6 to AIS Bushing.
3.	SERVICES- GIS: 400KV, SUPERVISION OF ERECTION OF GAS INSULATED BUS DUCT	Mtr	6	
4.	SERVICES-GIS: 400KV, TESTING & COMMISSIONING OF GAS INSULATED BUS DUCT	Mtr	6	Including Soak Test and <u>excluding</u> HV Test
5.	SERVICES- GIS: GAS SERVICE CART	Lot	1	Rental charges for Gas service Cart. Bidder to access the size/requirement of cart to complete the scope of work as per requirement.

Note: Quantity variation shall be +/-20%.

1.4 TECHNICAL QUALIFYING REQUIREMENT & EXPERIENCE

NOT APPLICABLE.

1.5 INSPECTION & TESTING:

Prior to dispatch, the routine & acceptance tests shall be carried out (if any) in accordance with the applicable IEC /IS and the material shall be offered for final inspection to BHEL and POWERGRID in accordance with agreed quality plan with 3 weeks' advance information.

1.6 QUALITY PLAN

Bidder/Manufacturer to follow BHEL/POWERGRID approved Quality Plan at contract stage.