

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 11KV VCB PANEL (3 IN 1)

EQUIPMENT		11KV VCB PANEL (3 In 1)
SPECIFICATION NO.		: SP/ELEC/9313
LOCATION		: NEW FABRICATION SHOP & STORE
QUANTITY		1 No.

NOTE :

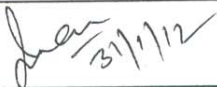

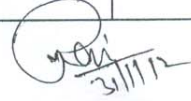
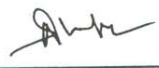
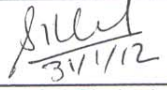
- VENDOR must submit complete information against clause No. 5 (Qualifying condition). The offer meeting this clause
- The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and
- The offer and all documents enclosed with offer should be in English language only.

SCOPE :

DESIGN, MANUFACTURING, TESTING, PACKING, SUPPLY, ERECTION AND COMMISSIONING OF

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	OFFERED	DEVIATIONS
1.0	This specification governs the quality requirements of design, manufacturing, testing, packing at supplier works, delivery, erection and commissioning of	VENDER TO CONFIRM	
1.1	STANDARD APPLICABLE		
	SWITCHGEAR : IS:13118-1991/ IS:3427-1969	VENDER TO CONFIRM	
	CT : IS:2705 -1992	VENDER TO CONFIRM	
	PT IS:3156 -1992	VENDER TO CONFIRM	
	STATUTORY : MEETS INDIAN ELECTRICITY RULES	VENDER TO CONFIRM	
1.2	Quantity 1 Set	VENDER TO CONFIRM	
1.3	Location 1 set for 33/11 KV sub-station	VENDER TO CONFIRM	
2.0	REQUIREMENT		
2.1	11KV, 630 Amp., 25KA Indoor Type multiple VCB panel with 1 No. incomer and 2 Nos. outgoing. Panel shall be complete with air insulated 3 phase bus bar, earth bars, small	VENDER TO CONFIRM	
	Description	Incomer	Out going
3.0	11KV, 630 Amp. Horizontal drawout type Vacuum circuit breaker.	1 No.	2 Nos.
3.1	Vacuum circuit breaker comprising of		
	i Motor/ Manual spring charging mechanism		VENDER TO CONFIRM
	ii Closing & Tripping Coil SUITABLE FOR 30/110V DC		VENDER TO CONFIRM
	iii 8 No +8 NC Auxiliary Switch		VENDER TO CONFIRM
	iv Mechanical ON/OFF Indication		VENDER TO CONFIRM
	v Mechanical Spring charge/Discharge indication		VENDER TO CONFIRM
	vi Braker Position Indicator		VENDER TO CONFIRM
	vii Mechanical Operation Indicator		VENDER TO CONFIRM
	viii Automatic Safety Shutters		VENDER TO CONFIRM
	ix Secondary self-aligned plug in contacts		VENDER TO CONFIRM
	x Anti-Pumping feature		VENDER TO CONFIRM

	QUANTITY		1 No.			
3.2	11 kV Epoxy Resin Cast current Transformer/5-5A		3 Nos	6 Nos	VENDER TO CONFIRM	
i	Core-I: Cl.0.5 with 15VA burden for Metering				VENDER TO CONFIRM	
ii	Core-II: Cl. 5P10 with 15 VA burden for Proction				VENDER TO CONFIRM	
3.3	11 Kv Epoxy Resin Cast Potential Transfome		1 No.	NIL	VENDER TO CONFIRM	
i	Ratio :11 kV/v3/110V/v3,3 Phase, Drawout Type.				VENDER TO CONFIRM	
ii	Core-I: Cl. 1.0 with 100 VA burden for Metering				VENDER TO CONFIRM	
3.4	Meter: Size :96 x 96				VENDER TO CONFIRM	
i	Analog Ammeter with selector switch/5A		1 No.	2 Nos.	VENDER TO CONFIRM	
ii	Analog Voltmeter with selector switch		1 No.	2 Nos.	VENDER TO CONFIRM	
iii	Multifunction meter. Class 0.5		1 No.		VENDER TO CONFIRM	
iv	KWH Meter digital type		1 No.	2 Nos.	VENDER TO CONFIRM	
3.6	Relays:				VENDER TO CONFIRM	
i	Numerical Non-Directional IDMT 30/C+1 E/F Relay		1 No.	2 Nos.	VENDER TO CONFIRM	
ii	Master Trip Relay		1 No.	2 Nos.	VENDER TO CONFIRM	
iii	Aux. Relay		NIL	4 Nos	VENDER TO CONFIRM	
3.7	Indicating Lamps/Push Buttons:				VENDER TO CONFIRM	
i	R,Y,B Indication Lamp		3 Nos	6 Nos	VENDER TO CONFIRM	
ii	Braker ON/OFF Indicating Lamps		2 Nos	4 Nos	VENDER TO CONFIRM	
iii	Spring charging indication Lamps		1 No.	2Nos	VENDER TO CONFIRM	
iv	Trip indication Lamps		1 No.	2 Nos.	VENDER TO CONFIRM	
v	Trip Circuit Healthy Indication		1 No.	2 Nos.	VENDER TO CONFIRM	
3.8	Miscellaneous Items:				VENDER TO CONFIRM	
i	Trip/ Neutral/ Close Switch		1 No.	2 Nos.	VENDER TO CONFIRM	
ii	Trip Circuit Healthy Push Buttom		1 No.	2 Nos.	VENDER TO CONFIRM	
iii	MCB for AC and DC Supply		2 Nos	4 Nos	VENDER TO CONFIRM	
iv	4 Window Annunciator With Hooter		1 No.	2 Nos.	VENDER TO CONFIRM	
v	Panel space heater with thermostat		1 No.	2 Nos.	VENDER TO CONFIRM	
vi	Bus Bar Aluminium		1 Set	2 Set	VENDER TO CONFIRM	
vii	Panel illumination with switch		1 No.	2 Nos.	VENDER TO CONFIRM	
viii	5 Amp 3 pin socket		1 No.	2 Nos.	VENDER TO CONFIRM	
ix	Control fuses, ferules & wiring		1 Set	2 Set	VENDER TO CONFIRM	

	QUANTITY		1 No.		
x	M.S Cubical with powder coating	1 Set	2 Set	VENDER TO CONFIRM	
3.9	Accessories				
i	spring charging handle	1 No.	2 No.	VENDER TO CONFIRM	
ii	interlocking/racking & slow charging handle	1 No.	2 Nos.	VENDER TO CONFIRM	
4.0	GENERAL				
4.1	All the drawing including outline general arrangement shall be submitted to us in Triplicate for approval before commencement of work.			VENDER TO SUBMIT	
4.2	3 sets of operation/maintenance manual shall be supplied.			VENDER TO CONFIRM	
4.3	At least 15 day advance information should be given to enable us to depute our representative for inspection / testing. Dispatch shall be affected only			VENDER TO CONFIRM	
4.4	Aluminum anodized name plate for outgoing circuit shall be screwed in front and back of the panel.			VENDER TO CONFIRM	
4.5	The equipment shall be guaranteed in respect of material construction and operation against any manufacturing and design defect for a period of 24 months after supply.			VENDER TO CONFIRM	
4.6	Offer shall be sent with complete literature and necessary details.			VENDER TO SUBMIT	
5.0	QUALIFYING CONDITION				
5.1	Only those venders, who are in the line of panel manufacturing or authorized agents of panel manufacturer, shall quote. The following information's are to be submitted with the offer. This is required from venders for qualifications of their offers.			VENDER TO SUBMIT	
a	Name of the panel manufacturer and company profile			VENDER TO SUBMIT	
b	Details of manufacturing facilities available at manufacturer works			VENDER TO SUBMIT	
c	Details of test facilities available at manufacturer works.			VENDER TO SUBMIT	
6.0	BHEL reserves the right to verify information submitted by vender. In case the information is found to be false/ incorrect, the offer shall be rejected			VENDER TO SUBMIT	
	 INDER MATHUR Sr. Mgr(WEX)	 Arjun Singh Manager (WE&S)	 Y.K.Dhingra Sr. Engineer (WE&S)		
	 A.K.Shivpuri Sr. Mgr9WEX)	 S.J.Chakraborty Sr.DGM(WEX)			

(एस०जे० चक्रवर्ती)
वरिष्ठ उप महाप्रबन्धक
कार्य उद्योगिकी एवं सेवा
बी०एच०ई०एल०, झांसी