

BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

	Spec No	9328		
	Item No	SP/ELEC./9328		
	Quantity	1 No		
	Location	Bay-9 Test Point		
1	VENDOR must submit complete information against clause No-7.0 (Qualifying Condition). The offer meeting this clause would only be processed.			
2	The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.			
3	The offer and all documents enclosed with offer should be in English language -only.			
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 11 KV,03 POLE 2000 AMP. MOTORISED ISOLATOR				
SLNo	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	OFFERED	DEVIATION
1.0	PORPOSE & WORK PIECE MATERIAL:			
1.1	11 kv,2000 Amp.3 pole outdoor Motorised with option of manual operation double break rotary type isolator with earth switch complete with all accessories, i.e mounting stand, mounting bracket, insulators,motor, manual operating mechanism, earth switch complete with manual operating handle, motor operating panel,auxilory switch as per specification.(IS- 9921)	Vendor to confirm		
1.2	Quantity 01 No.	Vendor to confirm		
2.0	SPECIFICATION			
2.1	Rated Voltage-11 kV (Min.)	Vendor to specify		
2.2	Highest System Voltage -12 kV	Vendor to specify		
2.3	Rated Current- 2000 A	Vendor to specify		
2.4	Breaking Current -As per IS	Vendor to specify		
2.5	Rated Short Time withstand current- 25kA for 03 Sec.	Vendor to confirm		
2.6	Rated peak withstand current -62.5KA	Vendor to confirm		
2.7	System frequency 50Hz(+/- 3%)	Vendor to confirm		
2.8	Creepage Distance-As per IS	Vendor to specify		
2.9	Rated Power Frequency Withstand Voltage -INSULATION LEVEL			
	(A) Rated One Minute Power Frequency wet Withstand Voltage:			
	(i) To Earth and Between Poles -As per IS	Vendor to specify		
	(ii) Across Isolating Distance -As per IS	Vendor to specify		
	(B) Rated One Minute Power Frequency dry Withstand Voltage:			
	(i) To Earth and Between Poles -As per IS	Vendor to specify		
	(ii) Across Isolating Distance -As per IS	Vendor to specify		
2.10	Lightning Impulse Withstand Voltage:			
	(i) To Earth and Between Poles -As per IS	Vendor to specify		
	(ii) Across Isolating Distance -As per IS	Vendor to specify		
2.11	Minimum Clearance:			
	(i) Phase to Phase -As per IS	Vendor to specify		
	(ii) Phase to earth -As per IS	Vendor to specify		
2.12	No of Poles -3 (Min.)	Vendor to confirm		
2.13	No Of Breaks Per Pole- 2 (Min.)	Vendor to confirm		
2.14	Auxilory contacts for interlocking (08 NO + 08NC)	Vendor to confirm		
2.15	Motor Make	Vendor to specify		
2.16	Motor rating(KW/HP)	Vendor to specify		
2.17	Motor supply voltage	Vendor to specify		
2.18	Make of Isolator	Vendor to specify		
2.19	Model of isolator	Vendor to specify		
3	PAINTING			
	(i)Two coats of red oxide metal primer and finished with two coats of Vendor to confirm synthetic enamel paint of gray colour on M.S stand and frame	Vendor to confirm		
4	DOCUMENTATION :			
4.1	After Receipt of Order: (For approval)			
	(i) Three set of GA drawing	Vendor to confirm		

SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 11 KV,03 POLE 2000 AMP. MOTORISED ISOLATOR

SLNo	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	OFFERED	DEVIATION
	(ii) Three sets of electrical schematic and control circuit diagram	Vendor to confirm		
4.2	With the supply			
	(i) Three sets of operation manual	Vendor to confirm		
	(ii) Three sets of maintenance manual of isolator.	Vendor to confirm		
	(iii) Catalogues, O&M Manuals of all bought out items including drawings- 3 set	Vendor to confirm		
4.3	DETAILS TO BE SUBMITTED WITH THE OFFER			
	(i) G.A. Drawing with dimensions	Vendor to submit		
	(ii) Technical literature of complete system	Vendor to submit		
	(iii) Schematic diagram of isolator with with control panel	Vendor to submit		
	(iv) List of standard accessories supplied with the equipment.	Vendor to submit		
	(v) Any special tool required for maintenance of the equipment	Vendor to specify		
5	GUARANTEE:			
5.1	24 Months form the date of commissioning of the equipment.	Vendor to confirm		
6	GENERAL			
	(i)The equipment is to be inspected & tested As per IS by our representative prior to dispatch at suppliers works.	Vendor to confirm		
	(ii) supplier must be submit the copy of respective IS referred in above specification	Vendor to submit		
7	QUALIFYING CONDITION			
7.1	Only those Vendors/manufacturer who have supplied at least one no Isolator of 11 KV grade or higher grade in last five years should quote .PO copy must be submitted	Vendor to confirm		
8	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.	Vendor to confirm		

[Signature]

Y K Dhingra
Sr.Eng (WEX)

[Signature]
08.01.15

D.N.Yadav
Dy. Mgr(CQX)

[Signature]
7/1/15

Mukul Singh
Mgr(WEX)

[Signature]
8/1/15

Inder Mathur
D.G.M (WEX)

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08.01.15

P.K Nograiya
D.G.M (CQX)

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9/1/15

S.J. Chakraborty
A.G.M (WEX)

[Signature]

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BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

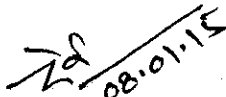
	Spec No	9330	
	Item No	SP/ELEC./9330	
	Quantity	1 No	
	Location	Bay-9 Test Point	
1	VENDOR must submit complete information against clause No-7.0 (Qualifying Condition). The offer meeting this clause would only be processed		
2	The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.		
3	The offer and all documents enclosed with offer should be in English language -only.		
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 66 KV,03 POLE 1250 AMP. MOTORISED ISOLATOR			
SLNo	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	OFFERED
1.0	PORPOSE & WORK PIECE MATERIAL:		
1.1	66 kv,1250 Amp.3 pole outdoor Motorised with option of manual operation double break rotary type isolator with earth switch complete with all accessories, i.e mounting stand, mounting bracket, insulators, motor,manual operating mechanism, earth switch complete with manual operating handle, motor operating panel as per specification.(IS- 9921)	Vendor to confirm	
1.2	Quantity 01 No.	Vendor to confirm	
2.0	SPECIFICATION		
2.1	Rated Voltage- 66 kV	Vendor to specify	
2.2	Highest System Voltage -72.5 kV	Vendor to specify	
2.3	Rated Current- 1250 A	Vendor to specify	
2.4	Breaking Current- As per IS	Vendor to specify	
2.5	Rated Short Time with stand current-25kA for 03 Sec.	Vendor to confirm	
2.6	Rated peak withstand current-78.5kA	Vendor to confirm	
2.7	System frequency 50Hz(+/- 3%)	Vendor to confirm	
2.8	Creepage Distance-As per IS	Vendor to specify	
2.9	Rated Power Frequency Withstand Voltage -INSULATION LEVEL		
	(A) Rated One Minute Power Frequency wet Withstand Voltage:		
	(i) To Earth and Between Poles -As per IS	Vendor to specify	
	(ii) Across Isolating Distance -As per IS	Vendor to specify	
	(B) Rated One Minute Power Frequency dry Withstand Voltage:		
	(i) To Earth and Between Poles -As per IS	Vendor to specify	
	(ii) Across Isolating Distance -As per IS	Vendor to specify	
	Lightning Impulse Withstand Voltage:		
	(i) To Earth and Between Poles -As per IS	Vendor to specify	
	(ii) Across Isolating Distance -As per IS	Vendor to specify	
2.11	Minimum Clearance:		
	(i) Phase to Phase -As per IS	Vendor to specify	
	(ii) Phase to earth -As per IS	Vendor to specify	
2.12	No of Poles -3 (Min.)	Vendor to confirm	
2.13	No Of Breaks Per Pole- 2 (Min.)	Vendor to confirm	
2.14	Auxiliary contacts for interlocking (08 NO + 08NC)	Vendor to confirm	
2.15	Motor Make	Vendor to specify	
2.16	Motor rating(KW/HP)	Vendor to specify	
2.17	Motor supply voltage	Vendor to specify	
2.18	Make of Isolator	Vendor to specify	
2.19	Model of isolator	Vendor to specify	
3	PAINTING		
3.1	Two coats of red oxide metal primer and finished with two coats of Vendor to confirm synthetic enamel paint of gray colour on M.S stand and frame "	Vendor to confirm	
4	DOCUMENTATION :		
4.1	After Receipt of Order: (For approval)		

SPECIFICATION CUM COMPLINCE CERTIFICATE OF 66 KV,03 POLE 1250 AMP. MOTORISED ISOLATOR

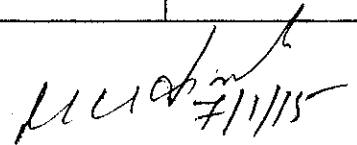
SL.No	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	OFFERED	DEVIATION
	(i) Three set of GA drawing	Vendor to confirm		
	(ii) Three sets of electrical schematic and control circuit diagram	Vendor to confirm		
4.2	With the supply			
	(i) Three sets of operation manual	Vendor to confirm		
	(ii) Three sets of maintenance manual of isolator.	Vendor to confirm		
	(iii) Catalogues, O&M Manuals of all bought out items including drawings- 3 set	Vendor to confirm		
4.3	DETAILS TO BE SUBMITTED WITH THE OFFER			
	(i) G.A. Drawing with dimensions	Vendor to submit		
	(ii) Technical literature of complete system	Vendor to submit		
	(iii) Schematic diagram of isolator with with control panel	Vendor to submit		
	(iv) List of standard accessories supplied with the equipment.	Vendor to submit		
	(v) Any special tool required for maintenance of the equipment	Vendor to specify		
5	GUARANTEE:			
	(i)24 Months form the date of commissioning of the equipment.	Vendor to confirm		
	GENERAL			
	(i)The equipment is to be inspected & tested as per IS by our representative prior to dispatch.at your works	Vendor to confirm		
	(ii)supplier must be submit the copy of respective IS referred in above specification	Vendor to submit		
7	QUALIFYING CONDITION			
7.1	Only those Vendors/manufacturer who have supplied at least one no Isolator of 33 KV grade or higher grade in last five years should quote PO copy must be submitted	Vendor to confirm		
8	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.	Vendor to confirm		



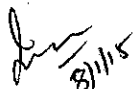
Y K Dhingra
Sr.Eng (WEX)



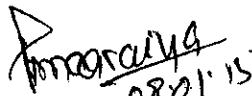
D.N.Yadav
Dy. Mgr(CQX)



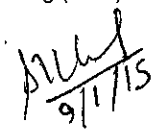
Mukul Singh
Mgr(WEX)



Inder Mathur
D.G.M (WEX)



P.K Nograiya
D.G.M (CQX)



S.J. Chakraborty
A.G.M (WEX)

BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

Spec No	9329
Item No	SP/ELEC./9329
Quantity	1 No
Location	Bay-9 Test Point

- 1. VENDOR must submit complete information against clause No-7.0 (Qualifying Condition). The offer meeting this clause would only be processed
- 2. The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.
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SLNo	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	OFFERED	DEVIATION
1.0	PORPOSE & WORK PIECE MATERIAL:			
1.1	33 kv,1250 Amp.3 pole outdoor Motorised with option of manual operation double break rotary type isolator with earth switch complete with all accessories, i.e mounting stand, mounting bracket, insulators, motor,manual operating mechanism, earth switch complete with manual operating handle, motor operating panel as per specification.(IS- 9921)	Vendor to confirm		
1.2	Quantity 01 No.	Vendor to confirm		
2.0	SPECIFICATION			
2.1	Rated Voltage-33 Kv	Vendor to specify		
2.2	Highest System Voltage -36 kV	Vendor to specify		
2.3	Rated Current- 1250 A	Vendor to specify		
2.4	Breaking Current capacity-As per IS	Vendor to specify		
2.5	Rated Short Time withstand current-25kA for 03 Sec.	Vendor to confirm		
2.6	Rated peak withstand current - 78.5kA	Vendor to confirm		
2.7	System frequency 50Hz(+/- 3%)	Vendor to confirm		
2.8	Creepage Distance-As per IS	Vendor to specify		
2.9	Rated Power Frequency Withstand Voltage -INSULATION LEVEL			
	(A) Rated One Minute Power Frequency wet Withstand Voltage:			
	(i) To Earth and Between Poles -As per IS	Vendor to specify		
	(ii) Across Isolating Distance -As per IS	Vendor to specify		
	(B) Rated One Minute Power Frequency dry Withstand Voltage:			
	(i) To Earth and Between Poles -As per IS	Vendor to specify		
	(ii) Across Isolating Distance -As per IS	Vendor to specify		
2.10	Lightning Impulse Withstand Voltage:			
	(i) To Earth and Between Poles -As per IS	Vendor to specify		
	(ii) Across Isolating Distance -As per IS	Vendor.to specify		
2.11	Minimum Clearance:			
	(i) Phase to Phase -As per IS	Vendor to specify		
	(ii) Phase to earth -As per IS	Vendor to specify		
2.12	No of Poles -3 (Min.)	Vendor to confirm		
2.13	No Of Breaks Per Pole- 2 (Min.)	Vendor to confirm		
2.14	Auxilory contacts for interlocking (08 NO + 08NC)	Vendor to confirm		
2.15	Motor Make	Vendor to specify		
2.16	Motor rating(KW/HP)	Vendor to specify		
2.17	Motor supply voltage	Vendor to specify		
2.18	Make of Isolator	Vendor to specify		
2.19	Model of isolator	Vendor to specify		
3	PAINTING			
3.1	Two coats of red oxide metal primer and finished with two coats ofVendor to confirm synthetic enamel paint of gray colour on M.S stand and frame	Vendor to confirm		
4	DOCUMENTATION :			
4.1	After Receipt of Order: (For approval)			

SPECIFICATION CUM COMPLIANCE CERTIFICATE OF 33 KV,03 POLE 1250 AMP. MOTORISED ISOLATOR

SLNo	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY VENDER	OFFERED	DEVIATION
	(i) Three set of GA drawing	Vendor to confirm		
	(ii) Three sets of electrical schematic and control circuit diagram	Vendor to confirm		
4.2	With the supply			
	(i) Three sets of operation manual	Vendor to submit		
	(ii) Three sets of maintenance manual of isolator.	Vendor to submit		
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	(iv) List of standard accessories supplied with the equipment.	Vendor to submit		
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5	GUARANTEE:			
	24 Months form the date of commissioning of the equipment.	Vendor to confirm		
6	GENERAL			
	(i) The equipment is to be inspected & tested as per IS by our representative prior to dispatch.at your works.	Vendor to confirm		
	(ii) supplier must be submit the copy of respective IS referred in above specification	Vendor to submit		
7	QUALIFYING CONDITION			
	(i) Only those Vendors/manufacturer who have supplied at least one no Isolator of 33 KV grade or higher grade in last five years should quote PO copy must be submitted	Vendor to confirm		
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9/1/15

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