

Annexure- 1, REV-00 to PI No. 240992397, REV 00

ITEM	QTY	DESCRIPTION	COMPLIANCE	COMMENTS / DEVIATIONS
1	9	Numerical Multi-functional Generator Protection Relay (IEC61850 compliant), type 7UM62 of Siemens or REG of ABB make or equivalent, having following protection functions besides all other protection functions and standard features listed in the respective catalogue. (Details to be spelt out in the offer). In case any protection function specified below is not covered by the integrated generator protection relay, standalone numerical relay shall be provided for the same. (The relay shall be used with external accessories covered in Item 02 below).	Complied / Not complied	
		Generator Differential Protection function (87G) having operating time of 25 milli secs or lower at five times the current setting.	Complied / Not complied	
		Two stage Generator Backup Impedance protection function (21G), three pole along with suitable timer for coordination with line protections.	Complied / Not complied	
		Stator Earth Fault protection function covering 100% of winding (64G), operating on low frequency signal injection principle suitable for continuous monitoring of stator insulation even during machine shut down. The relay shall provide protection during standstill, during start-up and during normal running of the machine. All necessary external accessories shall be covered in Item 02 below. Settings : 20 to 500 ohms for alarm and 10 to 300 ohms for trip. Any other setting range shall be justified by supplier with supporting documents and shall be acceptable subject to approval by our systems group.	Complied / Not complied	
		Generator Field Failure protection function (40G) instantaneous and time delayed stages.	Complied / Not complied	
		Generator Under Voltage protection function (27G) for use with field failure function.	Complied / Not complied	
		Two stage Generator Negative Phase Sequence current protection, stage-1 for alarm and second I_2^2t characteristic stage for trip, matching with the machine withstand capability curve.	Complied / Not complied	
		Two stage Over Fluxing Protection function (99G) having inverse time characteristics suitable for Generator and Generator transformer over fluxing capability.	Complied / Not complied	
		Generator Pole Slipping Protection function (98G) and Directional Pole slip protection (32/98G).	Complied / Not complied	
		Stator Earth Fault protection covering 95% of winding with adjustable time delay.	Complied / Not complied	
		Generator Low Forward Power protection function suitable for 3-phase power measurement, having two time delayed stages for alarm and trip (37G). Settings 0.5% of 3-phase rated power. Any other setting range shall be justified by supplier with supporting documents and shall be acceptable subject to approval by our systems group.	Complied / Not complied	

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		Generator Reverse Power protection function suitable for 3-phase power measurement, having two time delayed stages for alarm and trip (32G). Settings 0.5% of 3-phase rated power. Any other setting range shall be justified by supplier with supporting documents and shall be acceptable subject to approval by our systems group.	Complied / Not complied	
		Generator definite time delayed over voltage protection function (59G) for alarm and trip.	Complied / Not complied	
		Generator definite time or thermal overload protection function (51G / 49G).	Complied / Not complied	
		Two stage Generator Rotor Earth Fault protection for alarm and trip suitable for brushless machines operating on principle of continuously monitoring rotor insulation value even during machine shut down period. All necessary external accessories shall be covered in Item 02 below. Settings: 1 to 20 kilo ohms for both alarm stage and trip stage.	Complied / Not complied	
		The relay should be capable of monitoring the healthiness of injection circuit and raise an alarm in case of discontinuity in injection circuit.	Complied / Not complied	
		Generator Under Frequency Protection with alarm and two stage trippings (81G). Underfrequency protection shall have df/dt element.	Complied / Not complied	
		Generator over Frequency Protection with alarm and two stage trippings (81G).	Complied / Not complied	
		Generator Dead Machine (inadvertent energisation) protection function (50GDM) on two principles a/ based on U/V and O/C b/ based on CB status and O/C	Complied / Not complied	
		Generator CB Local breaker back-up protection (50LBB) having separate current settings and suitable for external initiation through binary input.	Complied / Not complied	
		Stand-by earth fault protection (51N) from separate CT input of NGT secondary.	Complied / Not complied	
		Generator VT Fuse Fail function 60VTFF	Complied / Not complied	
		The disturbance record shall have adjustable pre-fault and during / post fault time settings. The record length shall be of the order of 5 to 10 seconds.(to be specified in the offer). It should be possible to save the record in a COMTRADE format for replaying by relay test kit. (Details to be spelt out in the offer)	Complied / Not complied	
		The number of event records which can be stored shall be of the order of 150 to 250 with 1 ms time resolution. (Details to be furnished in the offer).	Complied / Not complied	
		The generator protection relay shall at least have 20 user configurable outputs besides relay fail watchdog contact, 15 user configurable digital inputs and user configurable LEDs. (Details to be spelt out in the offer).	Complied / Not complied	
		Rating: 5A, 110V, 50HZ. Auxiliary Supply: 220V DC.	Complied / Not complied	

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		It should be possible to synchronise the clock of the relay with SNTP.	Complied / Not complied	
		The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality.	Complied / Not complied	
		Device Reference -GR1, GR2 Refer Main Single Line Diagram (Drg. No. 12900059001).	Complied / Not complied	
		Vendor to confirm that offered relay meets the requirement of Generator protection as per Clause 9.5 & 9.12.1 of THDC specification TS: Protection system	Complied / Not complied	
2	5	External accessories for use with 100% Stator Earth Fault protection and Rotor Earth Fault protection covered in Item 1 above on low frequency injection principle. It should be possible to connect Group-1 & Group-2 Generator Protection relays (Covered in It-01 above) to a common set of accessories. Scheme of connection showing relays connected to common accessories shall be furnished with the offer. Each set of accessories comprises of following equipments along with screened cables of required length.	Complied / Not complied	
		i) 1 no. 20Hz Band Pass Filter type 7XT34 of Siemens or eq. for 100% stator E/F protection.		
		ii) 1 no. 20Hz Signal Generator type 7XT33 of Siemens or eq. for 100% stator E/F protection.		
		iii) 1 no. Controlling unit type 7XT71 of Siemens or eq. for Rotor E/F protection.		
		iv) 1 no. External resistor type 7XR6004 of Siemens or eq. for Rotor E/F protection.		
		v) Any special cables required for interconnection between generator protection relay and associated accessories shall be supplied.	Complied / Not complied	
		Vendor to confirm detailed specification of cable to be used between NGT and 100% Stator Earth fault accessories with proper justification.	Complied / Not complied	
		Vendor to confirm detailed specification of cable to be used between rotor and Rotor Earth fault accessories with proper justification.	Complied / Not complied	
		Auxiliary Supply: 220V DC (for all accessories)	Complied / Not complied	
		The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality.	Complied / Not complied	
3	7	Numerical, triple pole, Three winding Transformer protection relay (IEC61850 compliant) type 7UT633 of Siemens make or RET670 of ABB make or equivalent having the following protection functions, besides all other protection functions and standard features listed in the respective catalogue. (Details to be spelt out in the offer).	Complied / Not complied	

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		Transformer biased differential protection function (87T). Operating time of the differential protection shall be less than 30 msec at 5 times the current setting.	Complied / Not complied	
		Transformer over current protection (51T) on all three sides	Complied / Not complied	
		The relay shall have 3 separate CT inputs to be used for Restricted E/F protection (64R) OR Standby E/F Protection (51NT) on all 3 sides. At least 2 High Impedance Restricted E/F Protections should be possible in the relay. (Metrosil & Stabilising resistors for high impedance Restricted Earth Fault Protection are covered separately).	Complied / Not complied	
		The relay shall have separate three phase voltage input for overvoltage and undervoltage protection of transformer.	Complied / Not complied	
		Two stage Over fluxing protection, definite time stage-1 for alarm and stage-2 having inverse time characteristics suitable for transformer over fluxing capability for trip. (99T)	Complied / Not complied	
		Thermal overload protection function (49).	Complied / Not complied	
		Breaker LBB protection function (50LBB) with separate current settings for LBB and suitable for external initiation.	Complied / Not complied	
		The disturbance record shall have adjustable pre-fault and during / post fault time settings. The record length shall be of the order of 5 to 10 seconds. to be specified in the offer. It should be possible to save the record for replaying by relay test kit. (Details to be spelt out in the offer)	Complied / Not complied	
		The number of event records which can be stored shall be of the order of 150 to 250 with 1 ms time resolution. (Details to be spelt out in the offer).	Complied / Not complied	
		The Transformer protection relay shall have at least 16 user configurable output contacts besides relay fail contact, 16 user configurable digital inputs and user configurable LEDs. (Details to be spelt out in the offer).	Complied / Not complied	
		Rating: 1A/ 5A 50 Hz CT secondary. 110V, 50Hz VT secondary for overfluxing protection. Auxiliary Supply: 220V DC.	Complied / Not complied	
		The relay shall have built-in facility to program the CT ratio and amplitude error corrections in the relay without the use of any external auxiliary CTs.	Complied / Not complied	
		It should be possible to synchronise the clock of the relay with SNTP.	Complied / Not complied	
		The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality.	Complied / Not complied	
		Device Reference -87GT1 & 87GT2 FOR UNIT-2 & 3,87/51NSST Refer Main Single Line Diagram (Drg. No. 12900059001).	Complied / Not complied	
		Vendor to confirm that offered relay meets the requirement of Transformer protection as per Clause 9.5 & 9.12.2 & 9.12.3 of THDC specification TS: Protection system	Complied / Not complied	

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ITEM	QTY	DESCRIPTION	COMPLIANCE	COMMENTS / DEVIATIONS
4	5	Numerical, triple pole, Four winding Transformer protection relay (IEC61850 compliant) type 7UT634 of Siemens make or RET670 of ABB make or equivalent having the following protection functions, besides all other protection functions and standard features listed in the respective catalogue. (Details to be spelt out in the offer).	Complied / Not complied	
		Transformer biased differential protection function (87T). Operating time of the differetial protection shall be less than 30 msec at 5 times the current setting.	Complied / Not complied	
		Transformer over current protection (51T) on all three sides	Complied / Not complied	
		The relay shall have 3 separate CT inputs to be used for Restricted E/F protection (64R) OR Standby E/F Protection (51NT) on all 3 sides. At least 2 High Impedance Restricted E/F Protections should be possible in the relay. (Metrosil & Stabilising resistors for high impedance Restricted Earth Fault Protection are covered seperately)	Complied / Not complied	
		The relay shall have separate three phase voltage input for overvoltage and undervoltage protection of transformer.	Complied / Not complied	
		Two stage Over fluxing protection, definite time stage-1 for alarm and stage-2 having inverse time characteristics suitable for transformer over fluxing capability for trip. (99T)	Complied / Not complied	
		Thermal overload protection function (49).	Complied / Not complied	
		Breaker LBB protection function (50LBB) with separate current settings for LBB and suitable for external initiation.	Complied / Not complied	
		The disturbance record shall have adjustable pre-fault and during / post fault time settings. The record length shall be of the order of 5 to 10 seconds. to be specified in the offer. It should be possible to save the record for replaying by relay test kit. (Details to be spelt out in the offer)	Complied / Not complied	
		The number of event records which can be stored shall be of the order of 150 to 250 with 1 ms time resolution. (Details to be spelt out in the offer).	Complied / Not complied	
		The Transformer protection relay shall have at least 16 user configurable output contacts besides relay fail contact, 16 user configurable digital inputs and user configurable LEDs. (Details to be spelt out in the offer).	Complied / Not complied	
		Rating: 1A/ 5A 50 Hz CT secondary. 110V, 50Hz VT secondary for overfluxing protection. Auxiliary Supply: 220V DC.	Complied / Not complied	
		The relay shall have built-in facility to program the CT ratio and amplitude error corrections in the relay without the use of any external auxiliary CTs.	Complied / Not complied	
		It should be possible to synchronise the clock of the relay with SNTP.	Complied / Not complied	
		The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality.	Complied / Not complied	
		Device Reference -87GT1,87GT2 FOR UNIT-1 & 4	Complied /	
		Refer Main Single Line Diagram (Drg. No. 12900059001).	Not complied	

ITEM	QTY	DESCRIPTION	COMPLIANCE	COMMENTS / DEVIATIONS
		Vendor to confirm that offered relay meets the requirement of Transformer protection as per Clause 9.5 & 9.12.2 & 9.12.3 of THDC specification TS: Protection system	Complied / Not complied	
5	5	Numerical three phase High Impedence Cable Differential Protection relay (IEC61850 compliant) tuned to 50Hz frequency. This protection is required for differential protection of overhead connection between 420KV GIS & 400KV Pothead Yard (Refer SLD enclosed). Setting available shall be 5-20% of rated current in steps of 0.1%. (Setting range to be specified in the offer) The disturbance record shall have adjustable pre-fault and during / post fault time settings. Detail of record length shall be specified in the offer. It should be possible to save the record for replaying by relay test kit. The number of event records to be stored with 1 ms time resolution. (Details of number of events to be spelt out in the offer). Metrosil and stabilising resistors are covered seperately. The protection relay shall have at least 8 user configurable output contacts besides relay fail contact, 7 user configurable digital inputs and user configurable LEDs. (Details to be spelt out in the offer). Rating: 1A, 50HZ CT secondary. Auxiliary Supply: 220V DC. It should be possible to synchronise the clock of the relay with SNTP . The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality. Device Reference -87L Refer Main Single Line Diagram (Drg. No. 12900059001). Vendor to confirm that offered relay meets the requirement cable differential as per Clause 9.12.8 of THDC specification TS: Protection system	Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied	
6	13	Numerical, three over current (50/51) and earth fault protection relay (IEC61850 compliant) alongwith all other protection functions and standard features listed in the respective catalogue. (Details to be spelt out in the offer). The relay shall accept at least 4 CT inputs, 3 for overcurrent functions (50/51) and one for earth fault (50N/51N). Offered relay shall also have facility to use for directional overcurrent and earth fault protection (67/67N). Earth fault element shall be suitable for high impedance Restricted Earth Fault protection with sensitive setting of 5% of rated current. Metrosil & Stabilising resistors for high impedance Restricted earth fault protection are covered separately in Item below.	Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied	

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ITEM	QTY	DESCRIPTION	COMPLIANCE	COMMENTS / DEVIATIONS
		The disturbance record shall have adjustable pre-fault and during / post fault time settings. Detail of record length shall be specified in the offer. It should be possible to save the record for replaying by relay test kit. The number of event records to be stored with 1 ms time resolution. (Details of number of events to be spelt out in the offer). The protection relay shall have at least 8 user configurable output contacts besides relay fail contact, 7 user configurable digital inputs and user configurable LEDs. (Details to be spelt out in the offer). Rating: 1A, 50HZ. Auxiliary Supply: 220V DC. It should be possible to synchronise the clock of the relay with SNTP. The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality.	Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied	
7	9	Numerical three phase Generator split phase differential protection tuned to 50Hz frequency and all other protection functions and standard features listed in the respective catalogue. Rating: 1A , 50HZ CT secondary, 110V 50Hz PT Voltage. Auxiliary Supply: 220V DC. The protection relay shall have Programmable Scheme Logic, Fault Recording, Disturbance Recording, Event & Alarm Recording and self diagnostic functions. The disturbance record shall have adjustable pre-fault and during / post fault time settings. The record length shall be of the order of 5 to 10 seconds. It should be possible to save the record in a COMTRADE format for replaying by relay test kit. The number of event records which can be stored shall be of the order of 150 to 250 with 1 ms time resolution. (Details to be spelt out in the offer). The relay shall have 5 user configurable inputs and 7 user configurable outputs besides relay fail contact and LEDs as standard features. Interrogation voltage for digital inputs shall be 220V DC with minimum threshold pick-up voltage of the order of 70% of 220V DC. It should be possible to synchronise the clock of the relay with SNTP. The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality. The relay shall be mounted in switchboard flush pattern case, with rear access ring type terminals. CT/PT terminals shall be suitable for connecting two wires of 2.5mm square cross-section and balance terminals shall be suitable for two wires of 1.5mm square cross section. Special lugs or socket, if required, shall be supplied in adequate quantity along with the relay.	Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied Complied / Not complied	

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ITEM	QTY	DESCRIPTION	COMPLIANCE	COMMENTS / DEVIATIONS
		(k) include continuous dc supply supervision.	Complied / Not complied	
		(l) CT of both sides of the Bus coupler shall be taken as input to the relay	Complied / Not complied	
		Auxiliary supply voltage : 220V DC.	Complied / Not complied	
		The relay shall have atleast 24 user configurable outputs, relay fail watchdog contact, 40 user configurable digital inputs and 8 user configurable LEDs to meet the busbar protection scheme requirement. Justification and reference scheme shall be submitted along with offer for BI/BO.	Complied / Not complied	
		The relay shall have separate three phase voltage input for overvoltage and undervoltage protection of Bus.	Complied / Not complied	
		The disturbance record shall have adjustable pre-fault and during / post fault time settings. The record length shall be of the order of 5 to 10 seconds. It should be possible to save the record in a COMTRADE format for replaying by relay test kit. (Details to be spelt out in the offer)	Complied / Not complied	
		It should be possible to synchronise the clock of the relay with SNTP.	Complied / Not complied	
		The relay shall meet the General Technical Specification Requirements covered in Annexure-1A enclosed in totality.	Complied / Not complied	
		Vendor to confirm that offered relay meets the requirement Busbar protection as per Clause 9.12.7.1 & 9.12.7.2 of THDC specification TS: Protection system	Complied / Not complied	
11	12	Metrosil Resistor for use with high impedance restricted earth fault / differential protection relays rated for 1A CT Secondary.	Complied / Not complied	
		Calculation/selection of Metrosil done shall be submitted for approval by BHEL before despatch.	Complied / Not complied	
12	36	Stabilising resistor alongwith mounting arrangement of value 0-5000 ohms for use with high impedance restricted earth fault / differential protection.	Complied / Not complied	
		Calculation/selection of resistor done shall be submitted for approval by BHEL before despatch.	Complied / Not complied	
		Mounting details are to be furnished along with the offer.	Complied / Not complied	
13	13	KEMA Certified Managed type 1GBPS Ethernet switch, IEC61850 compliant with minimum eight copper (RJ45 port) channels and 2 Fiber optic ports for connection of IED (suiting the offered relays and the system architecture given by the vendor) into the Ethernet LAN. Auxiliary supply : 220V DC.	Complied / Not complied	
		Offered Ethernet Switches shall be suitable for Din rail mounting inside the panels. Suitable brackets for panel mounting shall also be supplied along with ethernet switches.	Complied / Not complied	
		Type number of Ethernet switches alongwith KEMA certified test reports shall also be furnished. Descriptive leaflets for mounting dimensions and connection diagram shall also be furnished.	Complied / Not complied	

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ITEM	QTY	DESCRIPTION	COMPLIANCE	COMMENTS / DEVIATIONS
14	1 Set	Evaluation Unit as per THDC specification clause 9.10.1 & 12.9.2, comprising of the following:	Complied / Not complied	
		A) 1 No. Laptop PC of reputed brand (to be finalised during detail engineering) with latest configuration (as per THDC spec.), for communicating with all numerical relays covered in this project , through front RS232 / equivalent port.	Complied / Not complied	
		ii) The Laptop PC shall be supplied pre-loaded with Licensed Latest Windows Operating System Software and Licensed Relay Parameterisation Software. Licensed Windows OS / Recovery CDs and Relay Parameterisation Software CDs shall be supplied.		
		B) 1 No. of Industrial Grade PC with 21" monitor and with latest configuration, 2000VA UPS, converters, (GRP & Switchyard relays shall be connected to one LAN) with latest configuration, for communicating with all numerical relays of four generator unit 400KV switchyard looped through rear RJ45/FO port. The PC shall be suitable for continuous operation and supplied pre-loaded with Licensed Latest Windows Operating System Software and Licensed Relay Parameterisation Software. Licensed Windows OS / Recovery CDs and Relay Parameterisation Software CDs shall be supplied.	Complied / Not complied	
		C) 1 No. A4 size Colour Laser Printer of reputed brand (HP eqvt) with driver Software for Windows OS and necessary interface cables and accessories.	Complied / Not complied	
		D) 1 No. UPS of at least 2KVA rating and 30 minutes back-up of reputed brand (to be finalised during detail engineering). The UPS shall be suitable for 240V, 50Hz AC supply with +10 and (-) 20 % voltage variations.	Complied / Not complied	
		E) 6 Nos. Relay Parameterisation Software CD is required for various functions like uploading / downloading the settings, retrieving and analysing the disturbance records and events from the relay.	Complied / Not complied	
		F) 6 Nos. Communication Cables of each type (4nos. per Generator Unit Relays and 2 nos. for the Switchyard) of about 3 meter length to connect the numerical relay front RS232 / equivalent port with the Laptop PC for Relay Parameterisation Software.	Complied / Not complied	
		G) 1 Set: Necessary RJ-45 cable, FO cable, Patch cords, LIUs, connectors etc. for complete system.	Complied / Not complied	
		H) 1 set: Control room furnitures for locating all the above equipments as required in central control room (CCR). Industrial grade furniture, from reputed manufacturer/supplier shall be supplied. Desk and furniture shall be modular and latest with ease of operational features.	Complied / Not complied	
		The exact requirement/ details of the furniture shall be finalized during detail engineering.	Complied / Not complied	
		I) Two sets of each type of connector shall be supplied as spare.		
		System architecture showing all interfacing items and interconnections between various numerical relays, Ethernet switches and evaluation unit shall be furnished with the offer.	Complied / Not complied	
		Vendor to confirm that data from all protection relays will be simultaneously available on Local PC and SCADA/DDCMIS in IEC-61850 protocol as per system architecture furnished.	Complied / Not complied	

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		Complete Bill of Material of the scheme shall be furnished with the offer.	Complied / Not complied	
		The Evaluation Unit shall be complete in all respects. Any additional interfacing hardware or software, cables, connectors etc. necessary for completion of the system, whether specifically mentioned or not in the BOM, shall be supplied without any additional price implication.	Complied / Not complied	
		Vendor to submit GTP of each item for BHEL/THDC approval before dispatch of equipment.	Complied / Not complied	
		Vendor to confirm that offered architecture meets the requirement of Central Protection Monitoring system as per Clause 9.2.2 & 9.10 of THDC specification TS: Protection system	Complied / Not complied	
15	26	Metrosil Resistor for use with high impedance restricted earth fault/ differential protection relays rated for 5A CT Secondary. Calculation/selection of Metrosil done shall be submitted for approval by BHEL before despatch.	Complied / Not complied Complied / Not complied	
16	1	Spare Busbar protection relay (1 no. of each type offered against It-10)	Complied / Not complied	
NOTE		1) Refer Annexure-1A to PI 240992397 for General Technical Specification of all Relays.	Complied / Not complied	
		2) Refer Annexure-1B to PI 240992397 for Qualifying Requirements.	Complied / Not complied	
		3) Point wise compliance to each clause of the specification in Annexure-1, Annexure-1A & Annexure-1B shall be furnished failing which the offer may not be considered.	Complied / Not complied	
		4) All items shall be procured from one source from the point of view of uniformity and communication compatibility.	Complied / Not complied	
		5) Five copies of bound manuals comprising commissioning manuals, descriptive leaflets, wiring diagram and guaranteed technical particulars of each item shall be furnished before dispatch of equipment.	Complied / Not complied	
		6) Six copies of routine test certificates shall be furnished project wise for all relays before dispatch of equipment.	Complied / Not complied	
		7) Any special hardware, screened cable, special lugs etc. mandatory for wiring of the relays shall be supplied in adequate quantity alongwith the relays.	Complied / Not complied	
		8) Following are the list of documents to be necessarily submitted with the offer over and above those mentioned elsewhere in the specification:	Complied / Not complied	
		a) Point wise compliance to each clause of the specification in Annexure-1, Annexure-1A and Annexure-1B.	Complied / Not complied	
		b) Complete detailed communication architecture showing all the relays, ethernet switches, PC, UPS & Printer.	Complied / Not complied	
		c) Application check for offered Busbar protection scheme along with a Technical write-up.	Complied / Not complied	

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		d) Details of past executed projects for THDC alongwith supporting documents like PO, approved GTP, approved Type test reports, approved drawing etc.	Complied / Not complied	
		9) GTP of Ethernet switches and Evaluation unit items shall be submitted for BHEL/THDC approval during execution stage.	Complied / Not complied	
Enclosed		1) THDC specification TS: PROTECTION SYSTEM		
		2) Main Single Line Diagram (Drg. No. 12900059001).		