

FORMAT B.1

Format for Techno-Commercial Pre-Bid Queries

Tender No TPCODL/CCG/23-24/035

Package Name One Year Rate Contract for Supply of 11 KV HG Fuse Sets of Various Ratings at TPNODL & TPSODL

Note : The said format to be used only for Technical Pre-Bid Query. Any Commercial Query has to be strictly in Format B2 Format for Commercial Pre-Bid Query and sent separately

Format to be used for query regarding Technical Pre-Qualification Requirement, Safety Pre-Qualification Requirement, Technical Set of Document

Pre-Bid Query has to be sent in **editable Excel file format only**

Pre-Bid Query has to be sent through e-mail to : sniyogi@tpsodl.com or sniyogi@tpsouthernodisha.com

Sr. No.	Detailed Reference to CCG- Odisha DISCOMs Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	CCG- Odisha DISCOMs' Response
1	2	3	4	5
Technical				
1	Specification for 11KV HG Fuse-200A Polymer Insulator			
2	Clause-1;Scope	Performance of 33KV,200A 3 Pole H.G Fuse Sets for Outdoor Installations	Suggestion: The line may be deleted as it is not Relevant to this specification	Revised specification is attached for 11kV, 200A HG Fuse.
3	Clause-2;Applicable Standards	IS: 5792-1973	Suggestion: IS: 9385 may be mentioned in place of IS: 5792-1973 as the later is an old standard.	Revised specification is attached for 11kV, 200A HG Fuse.
4		IEC: 61109	Suggestion: IEC: 62231 may be mentioned in place of IEC: 61109 as the later is an old standard.	Revised specification is attached for 11kV, 200A HG Fuse.
5	Clause-2; Materials	Arching Horn & Connectors should be of one piece Aluminium Strip.Aluminium strip should be as per drawing enclosed.	Suggestion: The line may be deleted as it is not Relevant to this specification	Aluminium strip is not required. However, Revised specification is attached for 11kV, 200A HG Fuse.
6	Clause-2; Pin Insulators	Clause-2; Pin Insulators	Suggestion: Pin Insulators may be replaced by Polymer Post Insulators	Revised specification is attached for 11kV, 200A HG Fuse.
		The pin type insulators used for the HG Fuse Unit shall confirm to IEC:1109-2008	Suggestion: The polymer post type insulators used for the HG Fuse Unit shall confirm to IEC:62231-2006	Revised specification is attached for 11kV, 200A HG Fuse.
		Minimum failing loads for pin insulators should be 5kN for 11KV and 10kN for 33KV	Suggestion: Minimum failing loads for polymer post insulators should be 5kN for 11KV	Minimum failing load for 11kV Polymer Post Insulator is 5kN. Revised specification is attached for 11kV, 200A HG Fuse.
	Clause-4; Guranteed technical particulars (11Kv,200A,3P)			
7	Clause-4 Serial-15	Aluminium Strip for HG Fuse:30mmx5mmx425mm	Suggestion: The line may be deleted as it is not Relevant to this specification	Aluminium strip is not required. However, Revised specification is attached for 11kV, 200A HG Fuse.
8	Clause-4 Serial-16(a)	Applicable standards: IEC 61109-2008 ammended upto date	Applicable standards: IEC 62231-2006 ammended upto date	Revised specification is attached for 11kV, 200A HG Fuse.
9	Clause-4 Serial-18	Details of Arching Horn: 1 SWG(7.62mm dia)	A) The appropriate size of the arching horn is 2 SWG i.e, 7.01mm dia which has prevelant during the then OSEB & GRIDCO Period.The purpose of the earthing horn is to break the arch developed during burning of the fuse.1 SWG Copper wire were used arching horn in 33kV Horn Gap Fuse. B) There is no short circuit test for HG Fuse as this is an interrupting device for protection of the transformer & 11kv system	Details of Arching Horn:- 1 SWG (7.62 mm) dia. Solid copper rod silver plated provided with screwing arrangement on the fuse carrier made of copper for fixing fuse wire (Total length -635 mm). All the bolts, Nuts and washers should be made out of Brass Riser Unit (150 mm height total):- The shape of connectors may be made out of straight copper
	Clause 5.2	The HG Fuse shall have adjustable arching horns made of solid copper rod having 8.23 mm dia.		
10	Clause-4 Serial-19	Riser unit (150 mm height total):..... having riser size(80 mm height x 30 mm width x 8 mm thickness)	80 mm Height may be reduced to 50 mm height so that the total height of the riser unit can be maintained 150mm. Suggestion: having riser size(50 mm height x 30 mm width x 8 mm thickness)	Riser Unit (150 mm height total):- The shape of connectors may be made out of straight copper Casting. Copper Riser 40 mm width x 5 mm Thick x 50mm height Copper Connector 40 mm width x 5 mm thick x 40 mm length. All Nonferrous parts shall be silver plated with coating thickness of (25 microns min.) However, Revised specification is attached for 11kV, 200A HG Fuse.

Sr. No.	Detailed Reference to CCG- Odisha DISCOMs Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	CCG- Odisha DISCOMs' Response
		2 nos 12 mm dia brass bolts & double brass nuts with flat brass washers	In 11Kv AB Switches 2 nos of 10mm dia GI Bolt & nuts & washers are used on each fixed & movable connectors. Since same jumper is used to connect AB Switch with HG Fuse same type of fasteners should be used in both sides. Suggestions: 2 nos 10 mm dia GI bolts & double GI nuts with flat GI washers	Revised specification is attached for 11kV, 200A HG Fuse.
		Connector of size 80 mm x 50 mm x 8 mm	Suggestions: In 11KV 400A HG Fuse of this TS, the connector size is 80 mm length x 50 mm width x 8 mm thick. Therefore in 200A AB Switch the connector may be considered for size 65 mm length x 35 mm width x 6 mm thick.	SOCKET: Two no. of bimetallic copper sockets shall be used at both ends suitable for 55-100 sq. mm AAAC conductor. However, Revised specification is attached for 11kV, 200A HG Fuse.
11	Clause-4 Serial-192 nos solderless bimetallic socket per each connector suitable upto 80sq mm conductor.	Suggestion: The appropriate size of ACSR/AAAC conductor may be mentioned in order to select corresponding bimetallic solderless socket.	SOCKET: Two no. of bimetallic copper sockets shall be used at both ends suitable for 55-100 sq. mm AAAC conductor. However, Revised specification is attached for 11kV, 200A HG Fuse.
	Clause 5.2: Technical details	The connector should be capable of connecting crimp able conductor upto 232 sq.mm. size(ACSR/AAAC) with bimetallic solderless sockets.		
12	Clause 5: General Construction	The Horn Gap Fuse sets are required for protection on 11kV & 33kV systems.	The 11Kv HG Fuse of this TS will protect 11Kv substation only. Suggestion: The Horn Gap Fuse sets are required for protection on 11kV systems.	Revised specification is attached for 11kV, 200A HG Fuse.
13	Clause 5.1: Insulators	The 22Kv post insulator-polymer type complete with pedestal to be used in H.G Fuse sets confirming to IS:2544/1973	Suggestion: The 12Kv post insulator-polymer type complete with pedestal to be used in H.G Fuse sets confirming to IS:62231-2006	Revised specification is attached for 11kV, 200A HG Fuse.
14	Clause 5.1: Insulators	Post Insulator construction should be as per below table:- The descriptions at Serial nos. 2,3,4 & 5 relates to Drop Out Fuse	Suggestions: Serial nos. 2,3,4 & 5 may be deleted as the descriptions mention therein relates to DROP OUT FUSE & are not relating to Horn Gap Fuse.	Revised specification is attached for 11kV, 200A HG Fuse.
15	Clause 7.2: Pin Insulators	Clause 7.2: Pin Insulators	Suggestions: Clause 7.2: Post Insulators IEC 61109 to be replaced by IEC 62231 Annexure A is missing.It may be provided	Revised specification is attached for 11kV, 200A HG Fuse.
		The tender shall submit all the type test report of HG Fuse & pin insulators as per relevant IS to the office of the chief engineer(Testing & QC) and get it approved as per tender condition.	Suggestions: The tender shall submit all the type test report of HG Fuse & post insulators as per relevant IS to the office of the chief CCG, TPCODL and get it approved as per tender condition.	Bidder should submit all the type test reports as per attached revised specification clause no. 7.3
16	Clause 13.0	Bidder shall submit the sample of material with the offer (in case of first supply to TPCODL)	Suggestions: Bidder shall submit the sample of material within 10 days of the offer (in case of first supply to TPCODL)	Sample is not required.
1	Clause no.4.GUARANTEED TECHNICAL PARTICULARS,Page no.27,Sl no.16	11kV Polymer Pin Insulator.	11kV Polymer Post Insulator is used in HG Fuse set in place of Pin Insulator.	11kV Polymer Post Insulator. Revised specification is attached for 11kV, 200A HG Fuse
2	Clause no.4.GUARANTEED TECHNICAL PARTICULARS,Page no.27,Sl no.15	Aluminium Strip for HG Fuse	Is not in our scope of supply.	Aluminium strip is not required. However, Revised specification is attached for 11kV, 200A HG Fuse.
3	Clause no.4.GUARANTEED TECHNICAL PARTICULARS,Page no.38,Sl no.18	Aluminium Strip for HG Fuse	Is not in our scope of supply.	Aluminium strip is not required.
4	Clause no.4.GUARANTEED TECHNICAL PARTICULARS,Page no.38,Sl no.22	The shape of connectors may be made out of straight copper flat.	Connector is made of Copper casting in place of copper flat,as it was accepted in previous tender.	Accepted. However, bidder should submit the type test reports for this design for copper flat
5	Clause no.4.GUARANTEED TECHNICAL PARTICULARS,Page no.38,Sl no.22	All Nonferrous parts shall be silver plated with coating thickness of (25 microns min.).	Kindly allow 10 microns coating thickness as it was accepted in before tender.	Shall be as per tender specification.
6				
7				
Commercial				
1	1. SCOPE OF WORK & EVENT INFORMATION - 1.7 Qualification Criteria, Page no.8	The average annual turnover requirement of the bidder shall be a minimum of Rs. 15.0 Crs (average of best three Financial year out of five Financial year shall be considered - FY 18-19, FY 19-20, FY 20-21, FY 21-22 & FY22-23).	Kindly allow the average turnover from 15 Cr to 9.5 Cr as the tender estimated work is less than the required turnover.	QR Clause of NIT (1.7 a) shall be revised as following --The bidder should have average annual turnover of minimum of Rs. 5.0 Crore for any three of last five financial years. (FY 18-19, FY 19-20, FY 20-21, FY 21-22 & FY22-23) Copy of audited Balance Sheet and P&L Account to be submitted in this regard. (UDIN no is mandatory for balance sheet.)