

**Pre-Bid Queries-TPCODL/P&S/154/20-21 For supply of Eye Hook, Dead End and Suspension Clam and IPC**

S.No	Description	Provision as per Tender Document	Bidder's Query	Bidder's Remark	TPCODL Response
1	IPC - Bolts	4n. Material: Hot dip galvanized steel, minimum 8.8 grade Shape: Hex/semi-circular head square/round neck compatible with body design	Material: Electro zinc plated steel grade 8.8 .	Hot dipped galvanized bolt standard size is minimum M12 bolt, in lower range (i.e. <M12) screw efficiency (torque vs load applied on connector ) is not be uniform.	Bidder has to provide as per TPCODL Specifications.
2	IPC - Compression Plate/ Belleville spring washer	4p. Material: Anti-corrosive metal Shape: Square/ Rectangular compression plate or Belleville spring washer compatible to upper body shall be provided beneath the nut	As per IS 2486 11.1.1, The conductor should not slip at a load of 8 percent of the breaking load of the conductor. The slip strength shall not exceed 15 percent of the breaking load of the conductor.	Belleville or spring washer is not recommended for electrical connection, By using Belleville washer relaxation of connector may happen and torque applied will be spend in washer.	Bidder has to provide as per TPCODL Specifications.
3	IPC - Coating on contact plates	4m. Copper coating shall be provided on Aluminium Alloy contact plates. minimum 6 microns (at any point of measurement) of tin coating on Copper coating shall be provided	Tinned will be made on Aluminium Alloy grade 6082 with T6 hardness, copper coating will be below tin coating.	Copper coating will not be visible	OK
4	IPC - Contact Plates	4k. Tinned Aluminium Alloy grade 6082 with T6 hardness with profiled teeth have sufficient area to cater specified current ratings	Tinned Aluminium Alloy grade 6082 T6 or <u>Tinned copper</u> with profiled teeth have sufficient area to cater specified current ratings	For IPC type C & D Bidder using tinned copper alloy	Bidder has to provide as per TPCODL Specifications.
5	IPC -Shear off nut	4o. Material: non-corrosive metallic Shape: shear off portion of nut shall have hexagonal shape. Rest of the portion of long nut shall have circular shape. Circlip or ring shall be provided beneath the shear off nut to rest the tightening tool.	Material: non-corrosive metallic Shape: shear off portion of nut shall have hexagonal shape. <u>Rest of the portion of long nut will be hex or hex covered by have circular shape insert.</u> Circlip or ring shall be provided beneath the shear off nut to rest the tightening tool.	Hex part is required for emergency disconnection and to conduct Mechanical test as per EN 50483 - 4 standard	Query is not clear
6	Suspension Clamp	Tensile Load - 40 Kn	As per IS 2486 11.2.1, 50% Breaking load of the relevant conductor.	MBL of 150 sq.mm conductor 43.5 Kn, Tensile strength required by clamp 21.75 Kn	As per TPCODL Specification
7		Slip Strength 12 Kn - 7 0 sq.mm & 9 Kn - 150sq.mm	As per IS 2486 11.1.1, The conductor should not slip at a load of 8 percent of the breaking load of the conductor. The slip strength shall not exceed 15 percent of the breaking load of the conductor.	70 sq.mm minimum slip strength (14*8%) - 1.12 KN, 150 sq.mm minimum slip strength (43.5*8%) - 3.8 KN	As per TPCODL Specification
8		Tensile Load - 45 Kn	As per IS 2486 11.2.1 & REC - E 35 ( 90 % of the breaking load of the conductor)	MBL of 150 sq.mm conductor 43.5 Kn, Tensile strength required by clamp(43.5*90%) 39.15 Kn	As per TPCODL Specification
9	Dead End Clamp	3.9 Type Tests The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL.	As per latest IS releivation, the validity of Type Test has been extended for 10 years.		Bidder is requested to provide recent Govt. Guide lines in support of their claim.
10		12.5 Dispatch and Delivery Instructions BA representative should accompany the material and get it unloaded / stacked in his presence wherever possible.	Who would provide the manpower for unloading and stacking at site. Due to Corona restrictions, we can send one engineer to visit the site during receipt of mtrls at site for unloading and stacking supervision. But the manpower shall be provided by TPCODL.		Please comply as per clause no. 12.5 specified in Tender Documents
11		1.3 Due date of Tender	Bidder requested to extend the due till 20.01.2020, considering the Sankranti Holidays		Please comply as per clause 1.3 mentioned in Tender Document

12	Price Bid	Suspension Clamp with Eye Hook qty 12000 nos	Bare Messenger wire sizes 70 sq.mm and 150 sq. mm. please confirm qty for 70 and 150 sq. mm separately.		Tentative estimated qty 50% for 70 sq mm and 50 sq. mm. However, this might change as per site requirement.
13	Price Bid	Dead End Clamp qty 8000 nos	Bare Messenger wire sizes 70 sq.mm and 150 sq mm. please confirm qty for 70 and 150 sq. mm separately.		Tentative estimated qty 50% for 70 sq mm and 50 sq. mm. However, this might change as per site requirement.
14	Price Bid	Supply of IPC INSULATED PIERCING CONNECTOR – qty 30000 nos	there are 4 type IPC in the Technical Specs. Please confirm IPC Type wise qty separately		Estimated Qty is 7,500 per type. However, actual qty shall depend on site requirement.
15	Price Bid	Cap cable end for AB CABLE qty – 24000 nos	please clarify size of Cable		Tentative estimated qty 50% for 70 sq mm and 50 sq. mm. However, this might change as per site requirement.
16	Eye Hook	Technical specification in tender documents are of bolted type eye hook ( REC -Type B) whereas drawing attached with tender document are of flat type eye hook ( REC- Type A) .	Please confirm which model of Eye hook to offer in tender. Drawings of type A & B from REC standard are attached for reference.		Type B is required.
17	Suspension clamp	Tender specification of suspension clamp body and tender drawings are not matching.	Please confirm the design of suspension clamp. Approved GTP & drawing of suspension clamp from TPDDL are attached for reference.		Actual query is not specified by the bidder, in case of any ambiguity, TPCODL specs to be referred.
		Breaking load of suspension clamp is mentioned as 40 KN for 150 sqmm messenger wire. As per REC 34 , tensile strength of suspension clamp should be 20 KN.	Please confirm the AB cable size and required breaking load of Dead end clamp.		AB Cable Size: 70 Sq mm and 150 Sq mm: Breaking Load as per TPCODL specs mentioned
18	Dead End clamp	As per tender specification, dead end clamps should be of bolted type whereas in drawing attached with tender documents are of conical type.	Please confirm the design of dead end clamp. Approved GTP & drawing of dead end clamp from TPDDL are attached for reference.		As per specification, Dead end clamps should be of bolted type is required. Please stick to it
		Breaking load of suspension clamp is mentioned as 45 KN for 150 sqmm messenger wire . As per REC 34 , tensile strength of dead end clamp should be 20KN.	Please confirm the AB cable size and required breaking load of Dead end clamp.		AB Cable Size: 70 Sq mm and 150 Sq mm: Breaking Load as per TPCODL specs mentioned
19	Insulated Piercing connector	There are 4 types (Type A, type B, Type C and Type D) of IPC in technical specification based on cable sizes.	Please confirm the IPC type to quote in this tender.		All 4 types to be quoted