



WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
(A Govt. of West Bengal Enterprise)
BARASAT DIVISIONAL OFFICE
4 JESSORE ROAD(E).CHAMPADALI MORE, BARASAT- 700124

Phone No. :8900798058
e-mail : dm.barasat@wbasedcl.in

NOTICE INVITING e-TENDER

NIT No. : DM/BSTD/Tender/52

Date: 27.12.2023

Tender is invited by the Divisional Manager, Barasat Division, North 24 Parganas, WBSEDCL, 4 Jessore Road(E), Champadali More, Barasat, Kolkata-700124 through electronic tendering (e-tendering) from manufacturers/Distributors for sample approval, supply, delivery and installation of the following item as per schedule detailed below.

Sl no.	Description of Item	Unit	Qty	Estimated rate	Estimated Cost	Earnest Money	Delivery time
1	IPC CONNECTOR (50-70 SQMM) (Mat Code: 504026741) Of (Raychem/Ensto/SKIC Make) Standard:NFC 33-020 or equivalent IS(if any)	NOS	4000	90.40	361,600.00	16,446.92	30 days
2	ANCHORING CLAMP WITH BRACKET (Mat Code: 505030541) (Raychem/Ensto/SKIC Make) Standard:NFC 33-041 & 33-042 or equivalent IS(if any)	NOS	900	317.8	286,020.00	16,446.92	30 days
3	EYE HOOK FOR SUSPENSION CLAMP (Mat Code: 505030841) (Raychem/Ensto/SKIC Make)	NOS	900	93.40	84,060.00	16,446.92	30 days
4	SUSPENSION CLAMP WITH BRAKET (Mat Code: 505030641) (Raychem/Ensto/SKIC Make) Standard:NFC 33-040 or equivalent IS(if any)	NOS	300	302.22	90,666.00	16,446.92	30 days
TOTAL ESTIMATED VALUE					8,22,346.00		


Divisional Manager
Barasat Division
WBSEDCL

Scope: - The materials are procured for Barasat Division, The supply of the materials will be directly at Barasat Divisional Store. Necessary Challan, E-Way Bills are to be provided at Barasat Divisional Store

Intending bidders desirous of participating in the tender are to log on to the website

Sl. No.	Particulars	Date & Time
01.	Date of uploading of N.I.T and Tender Documents (online). [Publishing date]	05.01.2024 after 10:00 hrs
02.	Documents sell / download start date (online).	05.01.2024 after 10.00 hrs
03.	Bid Submission upload start date (online)	05.01.2024 after 10:00 hrs
04.	Bid Submission upload end date (online)	16.01.2024 upto 10:00 hrs
05.	Date of submission of original copies of Earnest Money Deposit	On & from 16.01.2024 at 10:00 hrs to 18.01.2024 upto 10:00 hrs
06.	Date for opening of Technical bid (online) for the Bidders	18.01.2024 after 10:00 hrs
07.	Date of uploading the Final List of Technically Qualified Bidders after Technical Bid Evaluation (online).	To be intimated later
08.	Date, for opening of Financial Bid (online).	To be intimated later

<https://wbtennders.gov.in> for the tender. The tender can be searched by typing WBSEDCL in the search Engine provided in the website.

Bidders willing to take part in the process of e-tendering are required to obtain Digital Signature Certificate (DSC) in the name of person who will sign the tender, from any authorized Certifying Authority (CA) under CCA, Govt of India (viz. nCode Solution, Safescrypt, e-Mudhra). DSC is given as a USB e-Token. After obtaining the Class 2 or Class 3 Digital Signature Certificate (DSC) from the approved Certifying Authority they are required to register the fact of possessing the Digital Signature Certificates through the registration system available in the website.

Tenders are to be submitted online and intending bidders are to download the tender documents from the Website stated above. This is the only mode of collection of tender documents. Details of submission Procedure is given in "Instructions to Bidders".

Terms & conditions of the Tender Notice :

1. **Earnest Money Deposit** amounting to **2%** (Two Percent) of the Estimated Cost. As mentioned above, shall be submitted individually along with the offer. Necessary earnest money may be remitted through online mode only.
2. The bidder shall submit **along with the offer** necessary documents in support of their previous supply of the items of the tender to WBSEDCL in earlier. Occasions and financial capabilities to the extent of the estimated financial amount of their offer.
3. No agent is allowed to participate in the Tender. Only Original Manufacturer or authorized dealers are allowed to participate in the process. In case of Authorized Dealers, dealership certificate is a must.
4. WBSEDCL reserves its right to take decision keeping its financial interest. The Purchase Policy of WBSEDCL along with the provisions of Vendor Rating & Holiday Listing, as effective from 01.09.2012 and the subsequent amendment effective from 18.03.2013 will be applicable.
5. If the offer is submitted without or inadequate Earnest Money, the bid will not be opened. In case of Incomplete offer, the tender will be liable for rejection and Earnest Money Deposit will be forfeited.

[Signature]
Divisional Manager
Barasat Division
W.B.S.E.D.C.L

6. All materials should conform to the specifications provided. No deviations shall be allowed. The eligible bidder(s) has to submit a test report conforming to the NFC standard or equivalent IS Standard(if any). Test Reports should be submitted by the L1 eligible bidder(s) for each item.
7. The offer shall remain valid for a minimum period of 120 days from the next day of opening of the Tender.
8. **The quoted rates should be inclusive of all taxes & duties, freight and incidental charges. The quoted rate should be excluding GST charges. GST will be paid as applicable.**
9. The ordered materials should be delivered within 30 days from the date of PO, otherwise, penalty may be imposed as per rule of WBSEDCL for delay of delivery of ordered materials.
10. The necessary documents along with bill are to be submitted at Barasat Divisional Office. The SRV will be issued from Barasat Divisional Store, WBSEDCL.
11. At the time of placing purchase order, the quantity mentioned in the Tender Document may vary up to +/- 25%.
12. Any evidence of unfair Trade Practices including over charging, price fixing, cartel etc. as defined in Various statutes will automatically disqualify the bidders.
13. The company reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.
14. Any bidder against whom FIR/Complaint is lodged with Police by WBSEDCL/Other Utility/Govt. Semi Govt. or Govt. undertaking Dept. shall not be eligible to participate in the bidding process.
15. Other information as well as terms and conditions, which are not covered above, will be available in Instructions to Bidders, General Conditions of Contract of this tender and the Revised Purchase Policy of WBSEDCL.

16. TERMS OF PAYMENT:

- a) 90% payment of bill will be made within 45 (forty five) days from the date of submission of bill against: Original receipted Challan/Invoice signed by an officer in the rank Sr. SAE/Jr. Manager (Stores) attached to the respective stores. And
- b) Balance 10% payment will be made within 45 (forty five) days of submission of bills along with SRV After expiry of warranty period.

17. WARRANTY PERIOD: Warranty Period of supplied material will be one year from the date of delivery of the said materials. In case of any adverse report from store or defect found in site, materials have to be replaced or it would affect the vendor rating.

18. RATES NEGOTIATION:

Order placing authority reserves the right to negotiate the rate of any items with the L1 bidder.

19. PAYING AUTHORITY:

AM(F&A), Barasat Division, WBSEDCL, will be the Paying Authority.


Divisional Manager
Barasat Division
W.B.S.E.D.C.L

20. CONSIGNEE:

The name of the consignee will be The Store-In-Charge, Barasat Divisional Store.

21. LIQUIDATED DAMAGE FOR DELAY IN DELIVERY:

The time of delivery of the equipment/materials are to be treated as an essence of the contract and the WBSEDCL reserves the right to repudiate the contract, if the equipment / materials are not physically delivered within stipulated period as per physical delivery clause. But WBSEDCL may at his discretion waive this condition and accept the material with imposition of liquidated damage @ 1/2% of the Value of the materials beyond the schedule delivery period for or part thereof subject to **maximum of 5% of the particular lot and accept the goods beyond the stipulated period.**

22. Any further information along with WBSEDCL's Revised Purchase Policy may be had from the Website: **www.wbsedcl.in** and the following office:

*Office of the Chief Engineer (Procurement & Contracts),
West Bengal State Electricity Distribution Company Limited,
Vidyut Bhavan, 4th Floor,
Bidhannagar, Kolkata - 700091.
Phone No. 033-2319-7563*

22. Documents to be submitted in Technical bid- Please refer sl no. 6.2 of "Instruction to Bidders" in Page 8 of NIT

23. The specifications of the item.

As per specification mentioned in NIT.

Instructions to Bidders

1. Eligibility for participation:

- Original manufacturers/Distributors of the tendered items will be eligible in the tender
- The bidders shall have credential for supply of the tendered items to WBSEDCL other Govt. Departments in earlier occasions within last three financial years.

2. General guidance for e-Tendering:

Instructions/Guidelines for electronic submission of the tenders have been mentioned below for assisting the bidders to participate in e-Tendering.

3. Registration of bidder:

Any bidder willing to take part in the process of e-Tendering will have to be enrolled & registered With the e-Procurement system, through logging on to <https://wbtenders.gov.in>.

4. Digital Signature certificate (DSC) :

Each bidder is required to obtain a class-II or Class-III Digital Signature Certificate (DSC) for Submission of tenders.

5. The bidder can search and download NIT & Tender Documents electronically from the website Mentioned in Clause 3 using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

6. Submission of Tenders:

6.1 General process of submission

Tenders are to be submitted online through the website <https://wbtennders.gov.in>. All the Documents uploaded by the Tender Inviting Authority form an integral part of the contract. Tenderers are required to upload all the tender documents along with the other documents, as asked For, in the tender, through the above website within the stipulated date and time as given in the Tender. Tenders are to be submitted in two folders - one is Technical Proposal and the other is Financial Proposal. The tenderer shall carefully go through the documents and prepare the required documents and upload the scanned documents(credentials,certificates,EMD Draft/PO) in Portable Document Format (PDF) to the portal in the designated locations of Technical Bid. The bidder needs to download the BOQ, fill up the rates of items in the BOQ in the designated Cell and upload the same in the designated location of Financial Bid.

The documents uploaded shall be virus scanned and digitally signed using the Digital Signature Certificate (DSC). Tenderers should take note of all the addendum/corrigendum related to the tender and upload the latest documents as part of the tender.

6.2. Document to be submitted

i. Company Details:

ii. Certificates:

- 1) PAN Card details.
- 2) Current Professional Tax (PT) submission Chalan. Application for such Addressed to the competent authority may also be considered.
- 3) GST registration certificate.

iii. Financial Info :

Annual turnover for a period of the last three financial years.

iv. Credential:

- 1) Documents in support of supply of the tendered items to WBSEDCL, in earlier occasions within last three financial years as mentioned below:
 - a. 1 No Purchase Order for completing delivery of the said materials having financial involvement of not less than 50% of the estimated value of the said item(s). Or
 - b. 2 Nos Purchase Order for completing delivery of the said materials having financial involvement of not less than 40% of the estimated value of the said item/item(s).
- 2) Self Declaration certificate as per Annexure 1. (mandatory format)
- 3) Others: Any other documents found necessary.

7. Conditional and incomplete tender:

Conditional and incomplete tenders are liable to summary rejection.

8. Validity of Tender and Offer:

The offer against tender should remain valid for a minimum period of 120 days from the next day Of opening of the tender. However, WBSEDCL may, on the merit of case, request for extension of validity of the offer for a further suitable period without any change in terms & conditions of the Offer.

9. Opening and evaluation of tender:

9.1 Opening of Technical Proposal

- i. Technical proposals will be opened by the Tender Inviting Authority or his authorized Representative electronically from the website stated above, using their Digital Signature Certificate.
- ii. Technical proposals for those tenders whose original copies of BG towards tender Fee or EMD have been received will only be opened. Proposals corresponding to which original copy of BG towards tender fee or EMD has not been received, will not be opened and will stand rejected.
- iii. Intending tenderers may remain present if they so desire.

9.2 Techno-commercial Evaluation of Tender

- i. While evaluation, the Tender Inviting Authority or his authorized representative may summon the tenderers and seek clarification / information or additional documents or original hard copy of any of the documents already submitted and if these cannot be produced within the stipulated timeframe, their proposals will be liable for rejection.
- ii. The summary list of tenderers, whose bids will be found techno-commercially eligible, will be uploaded in the web portals. Date of opening of financial bid will be intimated to the Techno-commercially qualified tenderers.

9.3 Opening and evaluation of Financial Proposal

- i. Financial proposals of the tenderers declared techno-commercially eligible, will be opened electronically by the Tender Inviting Authority from the web portal stated above on the prescribed date.
- ii. The encrypted copies will be decrypted and the rates will be read out to the bidders remaining present at that time.
- iii. After opening of the financial proposal the preliminary summary result containing interlaid, name of bidders and the rates quoted by them will be uploaded.
- iv. The Tender Accepting Authority may ask any of the tenderers to submit analysis to justify the rate quoted by that tenderer.

10. Revision/withdrawal of Financial Proposal by the bidder after opening of Technical Proposal of the tender will not be allowed if it is not sought by the Tender Inviting Authority.

11. Acceptance of Tender

Lowest valid rate should normally be accepted. However, the Tender Accepting Authority does not bind himself to do so and reserves the right to reject any or all the tenders, for valid reasons.

12. Purchase Order

WBSEDCL will communicate acceptance of tender to the successful bidder by a Purchase Order. The successful tenderer shall communicate the acceptance of the purchase order.

13. Concession

No price preference will be allowed to any tenderer based on the size of the industry or its geographic location. Co-operative Society, will not be considered with separate status.

14. Holiday Listing and Vendor Rating

Holiday Listing & Vendor Rating will be applicable according to the "Holiday Listing & Vendor Rating" policies of the Revised Purchase Policy, which is posted in website of WBSEDCL (www.wbsedcl.in). Performance of the bidders, who supplied materials/equipment to WBSEDCL previously, will be evaluated for their Vendor Rating according to the said Vendor Rating policy and their Vendor Rating will be taken into consideration at the time of evaluation of Technical and Financial Proposals of the tender.

15. Return of Earnest Money of the unsuccessful tenderer(s)

For return of the Earnest Money of the unsuccessful tenderer(s), he/she/they is/are to apply for the same to the Regional Manager, North 24 Parganas, WBSEDCL, giving the reference to the NIT No., date of tender, amount and mode of Earnest Money deposited – all in a complete form. The Earnest Money of all tenderers other than the successful tenderer(s) may be refunded, after issuance of Purchase Order to the successful tenderer(s).


Divisional Manager
Barasat Division
WBSEDCL

Annexure 1

Self Declaration


I/We on behalf of (Name of bidder agency) do hereby
declare that I/We have quoted rate for supply of the mentioned materials for the e-tender id
DM/BSTD/Tender/52 dt: 27.12.2023


I/We also declare that I/We shall successfully complete the work in scheduled time maintaining the terms
& conditions of Warranty of NIT Clause no. 17 if ranked as L1 bidder of the tender.

Yours faithfully,

Signature of authorized
Representative of the bidder agency
with official seal

STANDARD TECHNICAL PARTICULARS FOR SUSPENSION CLAMP TO BE USED WITH EYE HOOK			
Title of Item		GTP of Suspension Clamp Assembly for LT AB Cable (Insulated messenger cable)	
SI No	Description	Particulars	
1	Type of Clamp	Suspension Clamp to be used with Eye Hook for LT AB Cable (Insulated Messenger Cable)	
2	Applicable standard	NFC 33-040 or equivalent IS with latest amendments if any (as per Drawing No REC/RDSS/LT-ACC-ABC/07A)	
3	Type	Push fit lever type	
4	Range of Conductor Size	25-70 Sq mm Insulated messenger cable	
5	Installation (with/ without disassembly)	Ready to use (without disassembling)	
6	Movable link	Insulating type of Mechanical & weather resistant Thermoplastic. Preferably, a metallic wear resistant ring should be fitted at point of contact between the Eye Hook and the movable link to accommodate maximum 30 deg deviation.	
7	Type & grade of Metallic and non metallic materials	UV resistant glass fiber reinforced polymer for non-metallic part of suspension clamp body, movable link and lever	
8	Marking (Embossing/ Permanent marking)	Range of Messenger Cable, Trade Mark, WBSEDCL	
9	Colour of Non Metallic Parts	Black	
10	Ultimate Tensile Strength T_{start} , T_{Final}	9.6 KN for 1 min & 12 KN for 1 min (without any deformation)	
11	Breaking Load (Min)	15 KN (should not break upto 15 KN)	
12	High Voltage Test (Acceptance Test)	Yes, Withstand Min 6 KV for 1 min	
13	Approximate weight	As per Manufacturer's specification with valid type test report	
15	Maximum longitudinal load sustained by clamp (Slip Test)	300 N (No slippage should occur)	
16	Total length of the clamp without closing lever	Manufacturer's design with valid type test report (Approx 110 mm with +/- 5% tolerance)	
17	Width of suspension clamp	Manufacturer's design with valid type test report (Min 100 mm)	
18	Locking Arrangement	Suspension clamps to be used for locking the messenger of ABC bundle without damaging the insulation or allowing the messenger to become dismounted from the fitting.	
19	General arrangements	No Loosable part in the process of clamping arrangement.	
20	Dimensional Tolerance	As per NFC & valid type test report.	
21	The Clamp and the link made of polymer should be provided with an additional insulation between the cable and the pole.		
22	List of Test Reports	Type Test	Acceptance Test
		i) Mechanical Test like Tensile Strength Test ii) Voltage Test iii) Climatic Ageing Test iv) Corrosion Test v) Endurance Test under Mechanical and Thermal Stress	i) Visual ii) Dimension iii) Mechanical Test like Tensile Strength Test iv) Voltage Test v) Confirmation of the Raw Material by Documents
23	Packing	To be Packed in Good Quality Cartons.	
24	Guarantee	As per SBD	
25	MQP along with GTP	Yes/ No	
	Updated Valid Calibration certificates of all testing equipments from NABL	Yes/ No	
	Valid Type Test Report as per SBD	Yes/ No	
	Details of Raw Material Suppliers as per standard.	Yes/ No	
	Credentials of Supply to WBSEDCL and other State Utilities	Yes/ No	
	All documents stamped and signed by Authorised signatories of Manufacturer	Yes/ No	



 Divisional Manager
 Barasat Division
 WBSEDCL

 27.12.23
 Divisional Engineer (Tech-II)
 Barasat Division
 WBSEDCL

STANDARD TECHNICAL PARTICULARS FOR ANCHORING CLAMP TO BE USED WITH EYE HOOK

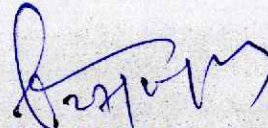
Title of Item		GTP of Dead end Clamp Assembly for LT AB Cable (Insulated messenger cable)	
Sl No	Description	Particulars	
1	Type of Clamp	Anchoring Clamp to be used with Eye Hook for LT AB Cable (Insulated messenger cable) Wedge type without any Glued Frictional granules	
2	Applicable standard	NFC-33-041 or equivalent IS with latest amendments if any	
3	Range of Messenger Size	25-50 Sq mm Insulated messenger cable	
4	Type of Design	As per NFC-33-041 or equivalent IS with latest amendments if any (As per Drawing No REC/RDSS/LT-ACC-ABC/03A) meant for Eye Hook-Anchoring/Dead end Clamp	
5	Installation (with/ without disassembly)	Ready to use (without disassembly)	
6	Type & grade of Metallic and non metallic materials	Corrosion Resistant Aluminum Alloy, Stainless steel Bail fixed at one end, and weather & UV resistant Polymer for wedges	
7	Marking (Embossing/ Permanent marking)	Range of Messenger Cable, Trade Mark, WBSEDCL	
8	Colour of Non Metallic Parts	Black	
9	Ultimate Tensile Strength T_{start}, T_{Final}	12 KN for 1 min & gradually increased upto 15 KN without any deformation.	
10	Breaking Load (Min)	15 KN (should not break upto 15 KN).	
11	Di electric test	Yes, withstand Min 6 KV AC for 1 min	
12	Slip Strength Test	During acceptance Test for Mechanical Test, no slippage will occur for Anchoring Clamp as per standard.	
13	Approximate weight	As per Manufacturer's specification with conforming all testing parameters.	
14	Total length of the clamp including bail	300 mm (Minimum)	
15	Dimension of Aluminum Body	140 mm (Minimum)	
16	Bail Details (Made of Stainless Steel stranded wire rope of Minimum 4mm Dia)	4mm (Minimum) Dia made of Stainless steel stranded wire with a Wear resistant movable saddle should be unloosably fitted on the rope or bail to prevent abrasion at the point of fitting in to the eye hook.	
16	Dimensional Tolerance	As per NFC & valid type test report.	
17	List of Test Reports	Type Test	Acceptance Test
		i) Mechanical Test like Tensile Strength Test ii) Voltage Test iii) Climatic Ageing Test iv) Corrosion Test v) Endurance Test under Mechanical and Thermal Stress vi) Slip strength Test	i) Visual ii) Dimension iii) Mechanical Test like Tensile Strength Test iv) Voltage Test v) Slip strength Test vi) Confirmation of the Raw Material by Documents
18	Packing	To be Packed in Good Quality Cartons.	
19	Guarantee	As per SBD	
20	MQP along with GTP	Yes/ No	
	Updated Valid Calibration certificates of all testing equipments from NABL accredited Lab only.	Yes/ No	
	Valid Type Test Report as per SBD	Yes/ No	
	Details of Raw Material Suppliers as per standard.	Yes/ No	
	Credentials of Supply to WBSEDCL and other State Utilities	Yes/ No	
	All documents stamped and signed by Authorised signatories of Manufacturer and Turnkey Agencies.	Yes/ No	



Divisional Manager
Barasat Division
WBSEDCL

 27.12.23
Divisional Engineer (Tech-II)
Barasat Division
WBSEDCL

STANDARD TECHNICAL PARTICULARS FOR EYE HOOK

Title of Item		GTP of Eye Hook for 1.1KV (LT) AB cable	
Sl No	Description	Particulars	
1	Type of Clamp	Type "A" Eye Hook (As per Drawing No REC/RDSS/LT-OH/03)	
2	Type & grade of Metallic materials	Forged Galvanised Steel	
3	Type of Hot Dip Galvanising & thickness of zinc coating	As per IS :2629 & IS 2633	
4	Mass of Zinc Coating on the eye hook	Min 610 gm/m ² (86 micron)	
5	Approximate weight (gram)	As per Manufacturer's specification with valid type test report	
6	Ultimate Tensile Strength (KN)	20 KN	
7	Marking (Embossing/ Permanent marking)	Trade Mark, WBSEDCL	
8	Dimensional Tolerance	Up to 50mm: ± 5%, 51mm to 100mm: ± 4%, 101mm to 300mm: ± 3%	
9	Thickness	6 mm (Min)	
10	Length approx.	180 mm	
11	Hook head width	35 mm	
12	Hook head width	16 mm (Min)	
13	Round Side Dia	with hole center 70 mm apart maintaining uniformity from both sides.	
14	Two holes of 18 mm dia	Eye hook should be designed as to hold suspension clamps and deadend clamps and to be installed with the pole clamp	
15	List of Test Reports	Type Test i) Ultimate Tensile Strength Test ii) Mechanical Test (Slip Strength Test) iii) Galvanising (for ferrous parts) iv) Chemical Composition Test as per IS:2486 (P-1)/ 1993 & IS:2004/1991	Acceptance Test i) Visual ii) Dimension iii) Ultimate Tensile Strength Test iv) Mechanical Test (Slip Strength Test) v) Galvanising (for ferrous parts) vi) Confirmation of the Raw Material by Documents
16	Packing	In Good quality gunny bags.	
17	Guarantee	As per SBD	
18	MQP along with GTP	Yes/ No	
	Updated Valid Calibration certificates of all testing equipments from NABL accredited Lab only.	Yes/ No	
	Valid Type Test Report as per SBD	Yes/ No	
	Details of Raw Material Suppliers as per standard.	Yes/ No	
	Credentials of Supply to WBSEDCL and other State Utilities	Yes/ No	
	All documents stamped and signed by Authorised signatories of Manufacturer and Turnkey Agencies.	Yes/ No	



 Divisional Manager,
 Barasat Division
 WBSEDCL


 27.12.23
 Divisional Engineer (Tech-II)
 Barasat Division
 WBSEDCL

STANDARD TECHNICAL PARTICULARS FOR IPC ABC

Title of Item		GTP of Insulation Piercing Connector ABC - ABC TEE Joint	
Sl No	Description	Particulars	
1	Type of Clamp	Insulation Piercing Connector ABC	
2	Material	Weather & UV resistant Reinforced Polymer	
3	Shear Head	made of Aluminium Alloy/Zinc Alloy	
4	Applicable standard	NFC 33 020 or equivalent IS with latest amendments if any	
5	Type of Connector	Insulation Piercing - ABC	
6	Application Voltage	1.1 KV	
7	Is any metallic part carrying potential in operation exposed during installation	No	
8	Are end caps of branch cable a) Slide on type b) Rigid	Slide on Type	
9	Are torque limiting shear heads provided to tightening bolts	Yes. Hexagonal shear head screw	
10	Range of Cable size Accommodated for Main and Branch	Main 16-95 sq mm Tap 16-95 Sq mm	
11	Minimum & Maximum Torque Defined (Connector should be tightened up to 70% of the Minimum Torque Indicated by the manufacturer)	Min -> As per the Manufacturer's design & supported by Type Test Report Max -> As per the Manufacturer's design & supported by Type Test Report	
12	Torque for establishing connection between main & branch (Nm)	70% of the minimum Torque indicated by the manufacturer	
13	Max tensile load for no breakdown of main conductor (for each cross section)	5 KN for 1 min (70 sq mm) and 1.2 KN for 1 min (16 sq mm)	
14	Max Tensile load on branch conductor for no slippage & Breakdown	500 N for 1 min	
15	Voltage withstand under water emersion. The entire assembly shall be immersed at a depth of 30 cm for 30 min with the free ends of Main & Branch cable out of the water.	6 KV AC Voltage for 1 min	
16	Marking and embossing on the connector (Embossing/ Permanent marking)	Trade Mark, WBSEDCL Main 16-95 sq mm Tap 16-95 Sq mm	
17	Max Rated Torque shall not exceed	20 Nm	
18	No breakdown of any part of the connector or the core conductor shall occur	at 1.5 times of Max Torque indicated by the Manufacturer.	
19	Rated bolt tightening torque (Bolt should be Zinc Coated)	As per Manufacturer's specification & Type Test Report	
20	Connecting teeth	made of Aluminium Alloy with 2mm(minimum) thickness	
21	Tightening screw heads	Hexagonal shear head screw	
22	No Loosable part is allowed in the IPC	Provided	
23	Torque required for breaking shear head	Manufacturer's specification & Type Test Report	
24	Dimensional Tolerance	As per NFC & valid type test report.	
25	List of Test Reports	Type Test i) Mechanical Test ii) Shear head function's Test & Connector Bolt tightening Test iii) Climatic Ageing Test iv) Corrosion Test v) Test for Mechanical damage to Main conductor vi) Branch Cable Pullout Test vii) Dielectric Voltage Test & Water tightness Test viii) Low Temperature assembly test ix) Electrical Ageing Test	Acceptance Test i) Visual ii) Dimension iii) Mechanical Test iv) Shear head function's Test & Connector Bolt tightening Test v) Test for Mechanical damage to Main conductor vi) Branch Cable Pullout Test vii) Dielectric Voltage Test & Water tightness Test viii) Electrical ageing Test for 2 nos Cycles as per NFC Standard(in house process). ix) Confirmation of the Raw Material by Documents
26	Packing	With plastic wrapping for each piece packed and lots (30-50 nos/ Manufacturer's specific) in Good quality cartons	
27	Guarantee	As per SBD	
28	MQP along with GTP	Yes/ No	
	Updated Valid Calibration certificates of all testing equipments from NABL accredited Lab only.	Yes/ No	
	Valid Type Test Report as per SBD	Yes/ No	
	Details of Raw Material Suppliers as per standard.	Yes/ No	
	Credentials of Supply to WBSEDCL and other State Utilities	Yes/ No	
	All documents stamped and signed by Authorised signatories of Manufacturer and Turnkey Agencies.	Yes/ No	


 Divisional Engineer
 Barasat Division
 W.B.S.E.D.C.L

 27.12.23
 Divisional Engineer (Tech-II)
 Barasat Division
 WBSEDCL