



ISO 9001-14001-45001
Miniratna Category-I

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
North Eastern Electric Power Corporation Limited

(एनटीपीसी लि.की सहायक कंपनी) (A Subsidiary of NTPC Ltd.)

135 मे.वा. अगरतला गैस टरबाइन कंबाईड साइकिल पावर प्लांट

135 MW Agartala Gas Turbine Combined Cycle Power Plant

अनुबंध एवं प्रापण : प्रचालन स्कंध / Contract & Procurement / Operation Wing

रामचन्द्र नगर, त्रिपुरा (प) / Ramchandra Nagar, Tripura (W) - 799008



NOTICE INVITING TENDER(E-TENDER)

e-NIT No. 28 /NEEPCO /AGTCCPP /C&P /2020-21 Dated 02.06.2020

Online Sealed bids (Single-Stage Two-Envelope) with 180 (One Hundred Eighty) days validity are invited from Manufacturers, Authorized Dealer, Franchisee, Authorised Channel Partners for "supply of Siemens make 132 KV Double Break Isolator for NEEPCO, 135 MW Agartala Gas Turbine Combined Cycle Power Plant, Ramchandranagar, Tripura(W)". Detailed Tender Document containing Terms and Conditions for Bidding including Qualifying Requirement can be down loaded from NEEPCO's online portal <https://etenders.gov.in>

SCHEDULE			No. of Quantity Required
1.	Name of Supply :	Moving Contact Assembly current path (1 Set consisting of 3 Nos. of Moving Contacts) (DRAWING enclosed in Annexure-A)	20 (Twenty)Sets
		Fixed Contact Assembly Current Path (1 Set consisting 6 Nos. of Moving Contacts) (DRAWING enclosed in Annexure-B)	10 (Ten) Sets
2.	Make	Siemens Ltd.	
3.	Estimated Value: (inclusive all)	₹ 51,64,064/- (Rupees Fifty One Lakhs Sixty Four Thousand Sixty Four) Only	
4.	Earnest Money :	₹ 1,03,200/- (Rupees One Lakh Three Thousand Two Hundred) only.	
5.	Tender Fees :	₹ 1000/- (Rupees One Thousand) only	
6.	Last Date & time for Bid submission:	03-06-2020 upto 13:00 Hrs.	
7.	Date & time of opening of Bid:	04-07-2020 at 15:00 Hrs.	
8.	Validity of Tender:	180 (One Hundred Eighty) Days	

BIDDING PROGRAMME

Participations & Submission of Tenders:

1. Registration for Participation in Bids:

- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- All the bidders are requested to get themselves registered well in advance and no extra time will be considered for submission of bids for the delay in online vendor registration, if any.
- Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

2. Submission and opening of Bids:

- Bidders shall prepare and submit their bids in the electronic form in <https://etenders.gov.in>. Bidding forms will be available in the above website. Bids will be opened on the stipulated date and time in the office of the Dy.General Manager(E/M),C&P wing, NEEPCO Ltd, AGTCCPP, R.C.Nagar, Agartala, Tripura(W),Pin-799008.

- 2.2 Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2.3 The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 2.4 Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 2.5 Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 2.6 Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 2.7 The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 2.8 All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening.
- 2.9 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 2.10 Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 2.11 The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

3 **Important Dates & Bid Validity:**

- 3.1 Date of commencement of downloading of bid documents from the portal <https://etenders.gov.in/eprocure> w.e.f 18:00 Hrs of 03/06/2020.
- 3.2 Last date & time for submission of bids online: 13:00 Hrs of 02/07/2020.
- 3.3 Date & time for opening of bids online: 15:00 Hrs of 04/07/2020.
- 3.4 Bid validity: 180 (One Hundred Twenty) days from the date of opening of bids.

In case 04/07/2020 is a holiday, the bid shall be opened on the next working day at the appointed times. Quotations received through any Off-Line Mode shall not be considered. Bidders are requested to visit e-tendering portal <https://etenders.gov.in/eprocure>, NEEPCO website <http://www.neepco.co.in> and CPP portal <https://etenders.gov.in> regularly for any modification/ clarification of bid document.

- 4 **Earnest Money:** An amount of ₹ 1,03,200/- (Rupees One Lakh Three Thousand Two Hundred) only to be submitted **ONLINE** failing of which their bid shall not be considered. After making payment of the EMD, bidder shall attach the computer generated payment slip along with bid documents. The payment slip shall be duly certified by the bidder mentioning tender number and its date before submission on the e-portal. **Payment of EMD and Tender fee shall be made separately, not combined. This Has to be done for prompt disposal of their EMD in case bidder has not qualified or not the L1 bidder**

5 **BANK DETAILS FOR EMD AND TENDER FEE SUBMISSION:**

Name of the bank	Indian Overseas Bank
Name of the Account Holder	NEEPCO LTD
Account Number	183702000000001
Branch	Ramchandra Nagar
IFSC Number	IOBA0001837

- 6 **Release of EMD:** a) The EMD of those Bidders who do not qualify in Techno-Commercial evaluation, shall be returned immediately after approval of Techno-Commercially evaluation through the same route. **No change of Bank details would be entertained.** b) The EMD of the Bidders other than L-1 Bidder, will be returned immediately after issue of Letter of Intent (LOI) to the successful Bidder.
- 7 **Forfeiture of EMD/Bid Security:** The Bid Security/EMD may be forfeited; a) if the bidder withdraws his bid after the bid opening during the period of bid validity and extension thereof. b) if the Bidder engages in corrupt, fraudulent, collusive, coercive practices during bidding process; or c) if the bidder does not accept the correction of the bid price d) in the case of successful bidder, if the bidder fails within the specified time limit to sign the Contract Agreement; or furnish the required Initial Security Deposit.
- 8 **Tender fees/ Bid Document Fee:** A non-refundable Tender Fee of ₹ 1000/- (Rupees One Thousand) only shall be submitted **ONLINE** failing of which their bid shall not be considered. After making payment of the tender fee, bidder shall attach the computer generated payment slip along with bid documents. The payment slip shall be duly certified by the bidder mentioning tender number and its date before submission on the e-portal. **Payment of EMD and Tender fee shall be made separately, not combined.**

Address of the undersigned : Dy. General Manager(E/M), C&P,
AGTCCPP, NEEP CO Ltd.,
R.C. Nagar, Agartala - 799008, Tripura(W).

- 9 **Evaluation of Tender:** Techno-commercial bid shall be opened on online. Tenderers' authorized representative shall be permitted to attend the tender opening only on submission of authorization letter. Purchaser will examine the Tender document to determine whether they fulfilled the qualifying requirement, whether they are complete and meet the requirements of this Tender specification. Tender submitted without fulfilling the qualification criteria shall be rejected and shall not be considered for price bid evaluation. Price bid of those tenderers meeting the qualifying requirement and requirements of Tender specification shall be opened on completion of Techno-commercial Evaluation. Date for price bid opening shall be notified at a later date through system-generated email.

INSTRUCTION TO BIDDER

The intending bidders who fulfill the eligibility / qualifying criteria as given below should participate in the on-line Bidding process. Fulfillment of criteria as mentioned is essential, as non-compliance will lead to rejection of the Bid, without any further communication.

Qualifying Criteria: The bidders must fulfill the following qualifying criteria :

1. The Tenders of the bidders must accompany tender fee and EMD. Without Tender Fee and EMD of requisite amount, the tenders will be rejected.
2. The bidder must have the experience of having successfully completed similar nature or allied works during last 7 (Seven) years in any Govt. of India organization/State Govt. organization /PSU. Documentary evidence to that effect shall be submitted.
 - a) Three similar completed supplies, each of value not less than 40% of the estimated cost.
OR
 - b) Two similar completed supplies, each of value not less than 50% of the estimated cost.
OR
 - c) One similar completed supply of value not less than 80% of the estimated cost.
(Similar work means supply of Moving Contact and Fixed Contact Assembly)
3. Copy of Bidder's PAN Card, Proprietor's Name, Legal Business Address, **GST Registration**, PF registration, Copy of Income Tax and Professional Tax Certificate clearance of current validity should be submitted along with their bids.
4. The quoted price must be authenticated with relevant supporting documents and uploaded online.
MSME, NSIC and startup registered bidders under Govt. of India are exempted from depositing Cost of Tender Document and Earnest Money. Copy of valid exemption certificate has to be submitted along with bid. Bidders who are registered as Micro/Small enterprise need to submit the Undertaking in prescribed format as enclosed with bid documents.
5. **Minimum Average Annual Turnover(MAAT):** Minimum Average Annual Turnover of the bidder, in the best three Financial Year out of the last 5(Five) Financial year, ending 31st March of the previous financial year should not be less than ₹ 15.49 Lakh.

6. **Liquid Asset Requirement:** The bidder should have liquid assets or / and evidence to availability of unutilised credit facilities of not less than the value as calculated below: $\text{Liquid Asset} = (\text{Estimated Cost} \times 2.5) / \text{Completion period in months}$. The Certificate of Banker regarding the availability of unutilized credit facilities (Fund based and non-fund based) shall not be dated earlier than 30 (thirty) days prior to the latest date for submission of bids. $\text{Liquid Asset} = \text{Current Asset} - (\text{Inventory} + \text{Pre-paid expenses})$.
7. MSME, NSIC, Start-up registered bidders are exempted from prior experiences and turnover etc. subject to meeting quality & technical specifications as per Govt. of India notifications from time to time.
8. The tender shall be finalized through "Tender cum Auction" i.e through the tender followed by e-Reverse Auction(e-RA). After opening the financial bids, Reverse Auction shall be conducted amongst the techno-commercially qualified bidders. The date and time of e-RA shall be conveyed to the techno-commercially qualified bidders via system-generated email.
9. Self-declaration of the bidder that the Bidding Firm has not been debarred / de-listed by any Govt / Quasi Govt. / Public Sector undertaking in India (to be mentioned in the letter head of the Firm).
10. Offline bids shall not be considered.
11. **Return of EMD:** EMD shall be returned to bidders through NEFT/RTGS. So bidders shall submit bank details along with bid.

TECHNICAL FEATURES/SPECIFICATIONS:

Name Plate Specs:-

U: 132 KV
 Um: 275 KV
 Im: 800 A
 I th: 31.5 KA
 Us: 650 KVP
 Ua: 220 V DC

GUARANTEED TECHNICAL PARTICULARS

1. Name of Manufacturers :
2. Standard applicable: - IS: 9921(Part I to V)
3. Type of Installation: - Outdoor
4. Mounting: - Horizontal upright
5. Type of operative mechanism: - Motor with manual handle for emergency operation
6. No. of Poles: - 03(Three)
7. Rated Voltage (KV):- 145
8. Rated Frequency (Hz):- 50
9. Rated continuous Current (Amps):- 800
10. Rated short time current for Sec.:- 31.5 kA
11. Rated peak short circuit current: - 80.0 kA
12. Maximum Temp. rise over an ambient of 400C:- 400C
13. Pole to pole spacing: - 2700mm.
14. **Dry & wet one minute power frequency with-stand voltage:-**
 - i) Across the isolating distance: - As per IS: 9921-315KV (rms) or IS: 1818-370KV (rms)
 - ii) to earth and between poles:- 275KV(rms)
15. **1.2/50 micro second impulse withstands voltage (Positive & Negative polarity):-**
 - i) Across the isolating distance: - 750KV (Peak)
 - ii) to earth and between poles:- 650KV (Peak)
16. **Flush over voltage (for insulator):-** PF (drg.) - 365 KV
 Impulse - 700KVP
17. **Total creep age distance:** - 3625 mm.
18. **Mechanical characteristic:-**
 - i) Tensile strength: - 80 KN
 - ii) Bending (cantilever) strength: - 06 KN

19. Weights:-

- i) Weight of one pole of the isolator: - 400kgs. (Approx)
- ii) Weight of operating mechanism: - 140kgs. (Approx)

20. Auxiliary Contacts:-

- i) Current carrying capacity: - 10A
- ii) Number of special type aux. contacts: - 8MBB
- iii) Number of aux. contacts suitable for normally open & normally closed operation:- 6 NO + 6 NC

21. Main Contacts:-

- i) Type: - Reverse loop pressure relieving type with turn & twist design
- ii) Material of main contacts: - Hard drawn electrolytic copper
- iii) Thickness of silver coating: - 25 microns

22. Interlocks:-

- i) Type: - Electro-magnetic
- ii) Rated control voltage for electrical work: - 220 V DC
- iii) Maximum & Minimum control voltage for electrical lock: - 242 V to 18 V.
- iv) Power required for electrical Lock :- 35 Watts

23. Motor- operating device:-

- i) Rated Voltage :- 415 V
- ii) Rated Output of Motor :- 1 HP
- iii) Voltage variation for satisfactory operation of Motor :-($\pm 10\%$)
- iv) Insulation Class :- "B"

24. Operating torque required for manual operation: - 40 K. gm.

25. Operating mechanism of earth switch: - Manual

26. Making capacity of earth switch: - not applicable tested for short time current rating of 80 kA (peak)

27. Closing time of isolator: - 6 to 8 secs.

28. Opening time of isolator: - 6 to 8 secs.

29. Number of openings the isolator is capable of performing:-

- a) at 100% rated current:- 1000 operations
- b) at 50% rated current

30. Capacity to interrupt line changing/magnetizing current:- (0.7A at 0.15 p.f.)

31. Type and location of bearings: - 02 Nos. Thrust Ball Bearing below the rotating post Insulator.

32. Rated current of terminal connector: - 800 Amps.

GENERAL TERMS AND CONDITION

(All prospective Bidders are requested to go through these instructions carefully)

The rate quoted against this e-NIT **should be submitted online**. The general Terms and Conditions are:

01. **SCOPE:** Supply, transportation, transit insurance and delivery of the materials upto NEEPCO/AGTCCPP site, Ramchandra Nagar, Agartala-799008.
02. **TIME OF COMPLETION:** The Supply shall have to be completed within 60(Sixty) days from the date of placement of Order.
03. **Taxes:** The rate quoted by the bidders should be inclusive of GST.
04. **FREIGHT & INSURANCE:** The bidder quoted price FOR AGTCCPP, NEEPCO Ltd, R.C.Nagar, Tripura(W) showing transportation & insurance charges separately. The consignments shall be duly insured against possible damage/loss during Transportation. The suppliers shall have sole liability/responsibility for settlement of claim with the insurer towards transit loss/damage if any. Replacement/rectification of the loss/damage during the transit shall be made immediately without waiting for settlement of the claims.
05. **PRICE BASIS:** Bidder shall quote the price as FOR, AGTCCPP basis. Quoted Rates shall remain **FIRM** till the completion of the contract.
06. **LIQUIDITY DAMAGE:** If the materials are not supplied within the stipulated time a Liquidity Damage shall be applicable @ $\frac{1}{2}\%$ (half percent) of the total value of the undelivered items per week subject to a ceiling of 10% of the ordered value.

07. **PAYMENT TERMS:** - 100% payment will be made on receipt of materials in full & good conditions and after necessary physical inspection and acceptance of the materials at our store & successful commissioning of the ladder. For effecting E- payment bank details for NEFT/RTGS is mandatory.

The supplier's bill in triplicate should be accompanied with the following documents

- i. Copy of packing list. ii. LR/ Consignment note iii. Test Certificate of all items
08. **SECURITY DEPOSIT:** The Supplier shall submit 10% of the total contract value as BG in NEEPCO's standard format from any nationalized bank within 7 days from the issuance of order which shall be kept as Security deposit till the defect liability period of 1(one) year.
09. **DRAWING:** The vendor shall submit the drawing of Moving Contact and Fixed Contact Assembly showing the dimensions of various parts.
10. **GUARANTEE:** The vendor shall give Performance guarantee for free from defects of design, materials and workmanship/ manufacturing for at least 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.
11. **Force Majeure Condition:** The above clause of liquidated damage shall not be applicable in case of force majeure condition such as Flood, war, civil unrest, natural calamities or acts of God on which the bidder does not have any control.
12. Any dispute is within the jurisdiction of Agartala only.
13. Deviation if, any from the standard specification must be clearly reflected in a separate attachment along with bid documents, duly authenticated by the manufacturer.
14. Technical specification not explicitly in the tender details is to be brought to the notice of the buyer detailing its specific utility and reasons for its induction.
15. Bidders shall submit their bids online in electronic form in <https://etenders.gov.in>. Online bidding forms are available in above website. Manual offline Bids shall not be accepted. However, the document submitted by the bidder must be signed and sealed at each page by the bidder with signature before scanning & uploading.

The bidders are requested to note that participation in the bid shall be taken as acceptance of the terms & conditions as stated above. Bidders are requested to visit the website (<https://etenders.gov.in>) for any future change/ modification/ corrigendum/addendum to this tender. The Corporation reserves the right to change/modify the requirements or to postpone/accept or reject the tender in full or part of this Notice or cancel without assigning any reason thereof and is not bound to accept the lowest offer.

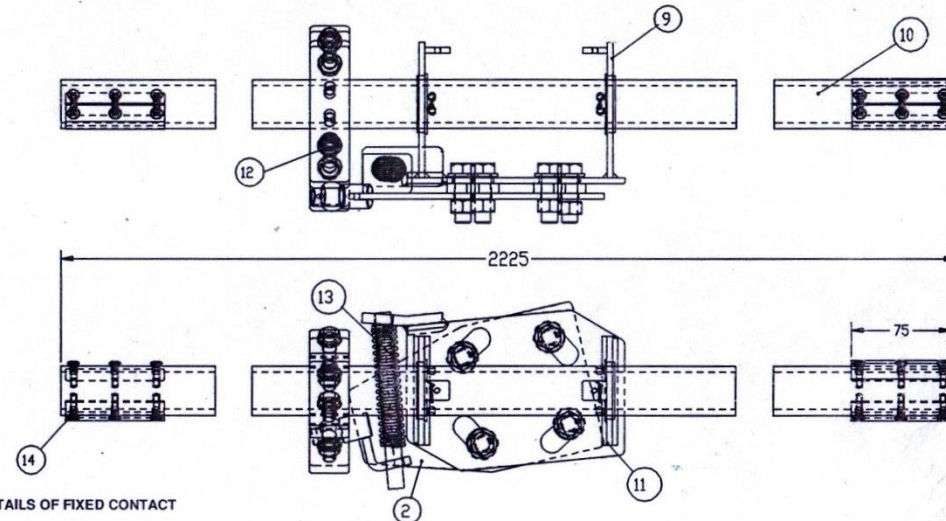
For & on behalf of North Eastern Electric Power Corporation Ltd.



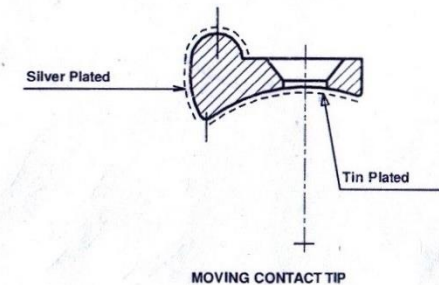
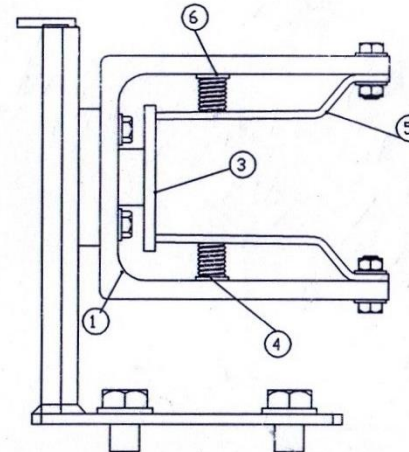
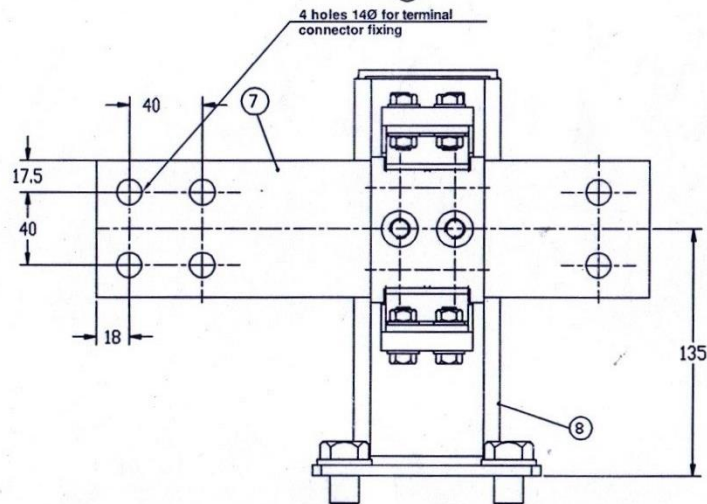
(Suranjan Sarkar)
Dy.General Manager(E/M), C&P
AGTCCPP, NEEPCO Ltd.

Annexure - A

DETAILS OF MOVING CONTACT



DETAILS OF FIXED CONTACT



PART LIST

1. Jaw fixing plate(Al flat)
2. Rotating blade mechanism bottom plate.
3. Spacer(Al)
4. Spring
5. Fixed contact jaw(2 Nos. 45x4 Cu strip)
6. Spring guide
7. Jumper pad(75x12 Al Flat)
8. Supporting channel
9. Top plate assy
10. Moving contact Arm (OD50xID42 AL tube)
11. Rotating blade mechanism bottom plate
12. Moving contact clamp
13. Rotating blade mechanism spring
14. Moving Contact tip

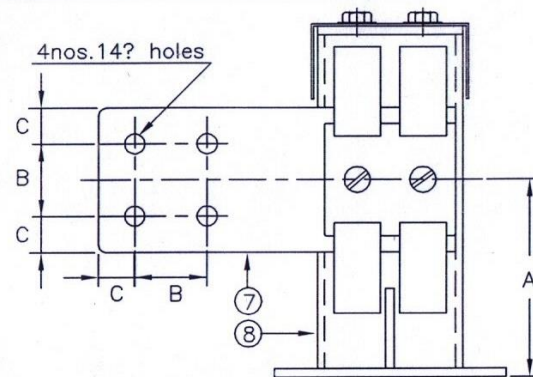
NOTES

1. All dimensions are in 'mm'.
2. All ferrous parts are hot - dip galvanised.
3. All non-ferrous contact points are silver plated to 15 microns
4. The indicated dimensions are subject to the manufacturing tolerance:- AS PER ISO 2768-1C
5. At Al. & Cu. contact joints, Cu. contact surface is Tin plated

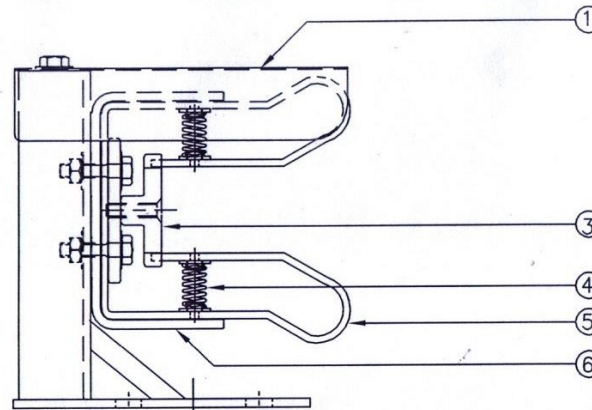
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F					DATE	23.9.17	CLIENT:	SIEMENS HYDERABAD	Descr: 145KV DBR DISCONNECTOR CONTACT ASSEMBLY (800A) Type: (31.5kA /3Sec) Detail: ALUMINIUM DESIGN	Scale: NTS																																		
					PREP. TYK		CONTRACTOR:			Item No :																																		
					CKD. MSR					DRG.NO.																																		
	ISSUE	REMARKS	DATE	NAME	APPR. KVR	Original/Replacement for/Replaced by:-				(3)	G 7 1 C S C	-	H 0 1 4 4	-	C 0 0 3	-	0	-					Sh 1																					
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DETAILS OF FIXED CONTACT

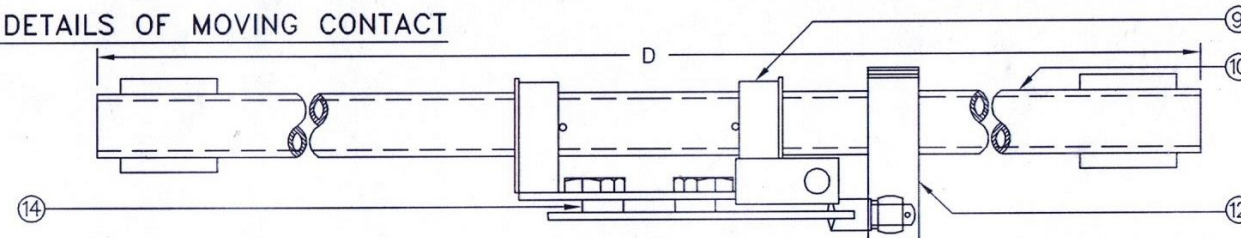


ELEVATION

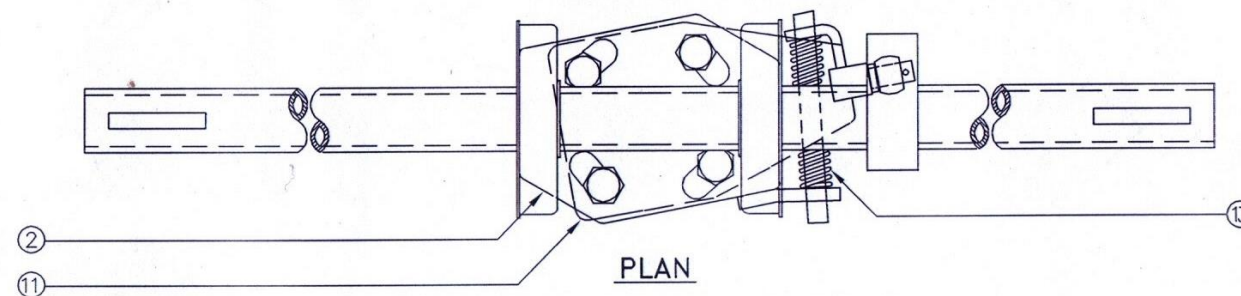


END VIEW

DETAILS OF MOVING CONTACT



ELEVATION



PLAN

DIMENSIONS

A	B	C	D	E	F
135	40	17.5	2240	-	-

NOTES

- 01 All dimensions are in 'mm'
 02 All ferrous parts are hot-dip galvanised
 03 All non-ferrous contact points are silver plated (25 microns)
 04 The indicated dimensions are subject to the manufacturing tolerance
 i) Upto 50mm --- $\pm 3\%$; ii) 51 to 100mm --- $\pm 2\%$;
 iii) 101 to 300mm --- $\pm 1\%$; iv) Above 300mm --- $\pm 0.05\%$.

PART LIST

Annexure - B

- 01 Shroud on fixed contact (18 G. I. sheet)
- 02 Rotating blade mechanism top plate
- 03 Spacer (synthetic resin bonded fibre moulding)
- 04 Spring (12 G. stainless steel wire)
- 05 Fixed contact jaw (2 Nos 20x5 mm Cu. strips)
- 06 Jaw back strip (20x6 M.S. strips)
- 07 Jumper pad (75x12 mm Al. flat)
- 08 Supporting channel (Formed channel)
- 09 Moving contact bearing block
- 10 Moving contact arm
(50 OD, 40 ID Al. alloy tube)
- 11 Rotating blade mechanism bottom plate
- 12 Moving contact clamp
- 13 Rotating blade mechanism spring (stainless steel)
- 14 Brass bush

MAIN CONTACT ASSEMBLY
(FOR 800 AMPS)3.SM 69704^ANAME OF THE PROJECT
INCORPORATED