


3804/2021/GM-SPVP

07/8292/2021

	<b>CENTRAL ELECTRONICS LIMITED</b>
	<b>SOLAR PHOTOVOLTAIC PRODUCTION*</b>
	<b>TECHNICAL SPECIFICATION</b>
<b>ITEM: PV RIBBON(5.00mm) STRING INTERCONNECT</b>	

## ANNEXURE-V

Sl. No. (as mentioned in Annexure-I)	Tender Specification	Supplier compliance (Kindly fill YES/NO only)	Deviated specification offered by vendor (In case compliance in column 3 is marked as NO)
1	Width: 5.00 mm $\pm$ 0.05		
2	Bare copper thickness : 0.3 $\pm$ 0.01mm		
3	Ribbon Thickness after coating: 0.335 $\pm$ 0.015mm		
4	Base material: High conductive Annealed ETP Copper ~ 99.9 Cu		
5	Resistance: shall not be more than 15 Ohm/Km at 20 <sup>o</sup> C		
6	Coating composition /Thickness: Sn : Pb = 60:40/ minimum 15-20 microns on each side		
7	Continuity of coating: Should be uniform and continuous.		
8	Camber: camber shall be less than 1.50mm per 300 mm in length		
9	Shelf life: Minimum 12 months at 40 <sup>o</sup> C from date of shipment		
11	Finish: The ribbon should be smooth and uniform		

Prepared By	Checked By	Approved By	Item : PV Ribbon (5.0)
<i>K. Prasad</i>	<i>[Signature]</i>	<i>[Signature]</i>	Item No. : 07
			BOM No. : 1 to 5
			Revision : 01
			Date : 19.01.2021
			Page 5 of 5

**Standard terms and conditions:**

(Terms and conditions mentioned in Annexure C will supersede these Standard Terms and Conditions wherever there is any difference. Hence please see Annexure C carefully)

1.	<b>CEL will prefers to get offers directly from the original manufacturers and prefer to deal directly with manufacturer.</b>
2.	<b>Terms of Price:</b> The terms of Price would be FOR CEL, Sahibabad unless specified otherwise in special terms & conditions of Annexure C.
3.	No Deviation from Specifications, Terms & Conditions of the tender is allowed. Quotations having deviation from our specifications, standard terms & conditions would be rejected.
4.	All requirements of export licensing, Govt. permissions or any other statutory clearance from the country of export as per regulations existing in the supplier's country shall be the responsibility of supplier, if required as per the terms of the purchase order.
5.	In a tender either the Indian agent on behalf of the foreign Principal/OEM or foreign Principal/OEM itself can bid but both cannot bid simultaneously in the same tender. If an agent submit bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender. Agent quoting on behalf of OEM /Principal shall submit valid authorization certificate along with their offer.
6.	<b>Taxes and duties:</b> The taxes and duties are to be clearly mentioned, if any.
7.	<b>Delivery schedule:</b> As per Special Terms and conditions of Annexure C.
8.	<b>Payment terms:</b> <b>Option 1:</b> Within 45 days from the date of receipt of material in CEL. <b>Option 2:</b> Letter of credit with 45 days usance from the consignment note/LWB/ AWB/BL. LC charges of opener's bank would be borne by opener and LC charges of beneficiary's bank would be borne by the beneficiary in case of foreign bidders. All the LC charges will be borne by beneficiary in case of Indian bidder. A loading of 1% on the total amount will be done for comparison of landing cost to CEL, if option 2 is ticked/accepted by the bidder Please tick V either option 1 or option 2. If no option is selected then option 1 would be considered.
9.	<b>Inspection:</b> Inspection will be done by CEL representative. CEL shall have free access to the supplier's works during testing and final inspection. Vendor shall inform the purchase not less than one week in advance. All testing arrangements shall be the responsibility of the vendor. CEL reserves the right to inspect the material during manufacturing and/or before dispatch as per specifications and test protocols. Internal inspection report and inspection certificate must accompany the supply. (This clause will be superseded by Inspection clause, if any, in Annexure C).
10.	<b>Price variation Clause:</b> Price variation will not be permitted and quotations having Price variation clause will be rejected. (This clause will be superseded by Price Variation Clause, if any, in Annexure C).
11.	<b>Price reduction for delayed delivery:</b> In the event of delay in affecting the delivery within agreed period, a reduction in the price shall be levied @ 0.5% of the total order value per week or part thereof subject to maximum of 5% of the total order value.
12.	<b>Validity of offer:</b> The quotation/tender/bid submitted by the bidder/supplier shall be valid for a minimum period of 90 days from date of opening.
13.	<b>Determination of Lowest quoting bidder:</b> The lowest quoting bidder would be decided on the basis of lowest landing cost of items to CEL.
14.	<b>Splitting of tender quantity in two or more bidders:</b> CEL reserve the right to split the quantity and award on two or more vendors as per the production / project requirement. The following norms would be adopted in case of spilt of quantity:  If the lowest quoting vendor is an approved vendor and the second lowest and third lowest bidders are also approved vendors to CEL 100% of tender quantity would be split amongst the approved vendors

	<p>only. In case of split of quantity in two approved vendors, the same shall be applicable for lowest (L1) &amp; second lowest (L2) in the ratio of 70:30 at the rate &amp; terms applicable to L1 approved vendor, keeping in view the objective that the per unit landed cost to CEL in case of purchase from L1 or L2 approved vendor remains same. In case of split of quantity in three approved vendors 60% quantity would be awarded to L1 approved vendor and balance 40% quantity will be awarded to the L2 approved vendor and L3 approved vendors in the ratio of L2's quantity &gt; L3's quantity subject to acceptance of L1 rate by L2 and L3 vendor. If the L2 vendor does not accept the L1 approved vendor's rate and terms then the quantity will be split between L1 approved vendors and L3 approved vendors.</p> <p>Micro &amp; Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion upto 20% of requirement by bringing down their price to L1 price where L1 is non MSEs (as per "Public Procurement Policy for Micro &amp; Small Enterprises (MSEs) Order 2012"). If price quoted by a MSE is within L1+15% and such MSE is L4 or higher (provided L1, L2 and L3 are not the MSEs) and agrees to the rates &amp; terms quoted/agreed by L1 bidder, then the splitting of quantities may be done as: MSE bidder: 20%, other bidders: 80% of tender quantity as given in above paragraph.</p>
15.	<p><b>NEW / UNAPPROVED VENDOR POLICY:</b></p> <p>Bidders who are not in the approved vendor list of CEL and are unapproved in CEL would be allowed to participate in open tenders. However, the quotation of such bidders would be evaluated based on the eligibility criteria defined in the tenders. If the bidders satisfies the eligibility criteria and meets the specifications and terms and conditions given in the tender then that bidder may be awarded with purchase order/work order of maximum 10% of the tendered quantity in order to develop that bidder as a vendor to CEL for participation in future tenders subject to the following conditions: -</p> <ol style="list-style-type: none"> <li>a) The bidder should be either the 1st lowest quoting bidder or 2nd lowest quoting or 3rd lowest quoting bidder.</li> <li>b) The bidder should agree to supply the tendered material at the lowest quoting bidder's rate if the bidder is unapproved and is L2 or L3 bidder.</li> <li>c) The bidder must fill up the vendor registration form and follows the vendor approval procedure.</li> <li>d) The maximum quantity to be divided between the unapproved bidders would be 10% of the total tendered quantity.</li> <li>e) Supply from unapproved bidders who are awarded purchase/work order would be taken only after approval of samples, wherever applicable.</li> <li>f) In case of Capital items/Projects/EPC/Works Contract or even regular procurement for production where splitting of tender is not possible, purchase/work order would be placed on lowest eligible &amp; technically qualified vendor only.</li> </ol> <p>However to develop new vendors, a perpetually open <b>EOI No. C-2(b)/EOI/707/68/2015</b> is also uploaded on our website and CPP with detailed specifications.</p>
16.	<p>Any corrections/alterations in the tender/quotation/bid should be duly signed by the bidder. CEL does not take any responsibility for delay in receipt or non-receipt or loss of tender(s).</p>
17.	<p>Earnest money deposit (EMD): EMD amount NIL mentioned in Annexure C (and also in tender notice) must be submitted through demand draft/RTGS/NEFT/TT/SWIFT favoring Central Electronics Limited. The demand draft must be valid for three months and should be payable at New Delhi. The EMD amount must be submitted on or before the due date of opening of quotations. No interest shall be payable on the EMD. The details of CEL's bank account for RTGS/NEFT of EMD amount are as below:</p> <p>Beneficiary Name: Central Electronics Limited          Beneficiary Account Number/IBAN: 87761250000014          Beneficiary Bank SWIFT Address/BIC: CNRB0018776          Beneficiary Bank Name: CANARA BANK          MICR CODE: 113502010          Beneficiary Bank Address: Sahibabad Branch, CEL Complex, Plot No. 1, Site 4,          Sahibabad 201010, U.P., INDIA</p>

	<p>The EMD (after deduction of bank charges, if any) of unsuccessful bidder will be refunded within one month of finalization of tender. The earnest money of successful bidder would be converted into security deposit and would be returned (after deduction of bank charges, if any) to the bidder after two months of successful completion of order.</p> <p><b>Exemption from submission of EMD:</b> The following type of bidders are exempted from submission of EMD subject to submission of relevant documents mentioned herein:</p> <p>a) Micro &amp; Small Enterprise registered with DIC or KVIC or KVIB or Coir Board or NSIC or DHH or any other body specified by Ministry of Micro, Small and Medium Enterprises, Govt. of India. A copy of valid registration certificate should be submitted with technical bid of quotation.</p> <p>b) Approved vendors of CEL or vendors who have supplied stores to CEL in the last 3 years (attach a copy of Purchase Orders received from CEL with the technical bid).</p>
18.	<p><b>Submission of bid:</b> The tender should be submitted in two bid system. The technical and financial bids should be quoted separately and submitted online. These separate bids envelopes are to be put in online cover. The following documents are required to be Submitted online with duly signed and stamped on all pages:</p> <p><b>Cover 1: (Technical Bid) and inline to Pre-Qualification Criteria (Refer Pg No. 5).</b></p> <ol style="list-style-type: none"> <li>Bidders who are the approved vendors of CEL and supplied material to Stores, CEL in the last 3 years need to enclose a copy of Purchase Orders received from CEL.</li> <li>Earnest Money Deposit demand draft or RTGS receipt or the MSME/ NSIC/DIC registration certificate showing bidder as Micro or Small-scale industry.</li> <li>Filled up Format for Submission of Vendor Data</li> <li>Tender acceptance letter as per format.</li> <li>Compliance of Eligibility Criteria and Technical specifications</li> <li>Compliance of Standard Terms and conditions and Special terms and conditions.</li> </ol> <p><b>Cover 2: (Financial Bid) and inline to Annexure '2':</b></p> <p>➤ Price Bid as per as per Annexure 'A' as asked in the relevant columns. Note: The rates should be quoted in figures (typed or printed) and cutting should be avoided. The final amount should be in figures as well as in words. Changing of heading or title or modification to any part of the price bid may render the bid as invalid and such bids are liable to be rejected.</p> <p><i>Submission of Tender Documents:</i> All tender documents (Technical and Financial) should have to submitted online</p>
19.	<p><b>Opening of Tenders:</b> Quotations/bids/tenders will be opened on as per Annexure-1 at Materials Management Division, Central Electronics Limited, Sahibabad. Price bid of only those bidders would be opened who qualify the technical bid. The date of price bid opening would be intimated to the eligible bidders (qualified in the technical evaluation) at least 1 day in advance.</p>
20.	<p>CEL reserves the right to reject any or all tenders/quotations/bids received or accept any or all tenders/quotation/bids wholly or in part. Further, CEL reserves the right to order a lesser quantity without assigning any reason(s) thereof. CEL also reserves the right to cancel any order placed on basis of this tender in case of strike, accident or any other unforeseen contingencies causing stoppage of production at CEL or to modify the order without liability for any compensation and or claim of any description.</p>
21.	<p>In case an order placed by the CEL based on the quotation/bid/tender submitted by the bidder/supplier is not executed by the supplier/bidder, CEL may buy the ordered goods from elsewhere and recover the additional amount that CEL may have to spend in procuring the stores plus 10% to cover the overhead &amp; incidental expenses.</p>
22.	<p><b>Quantity Enhancement:</b> CEL Reserves the right to enhance the quantity of material ordered by up to 50% by amending the purchase order(s) within a year, if any, awarded on the basis of this tender at the rate and terms and conditions mentioned in such purchase order(s).</p>

23.	<p><b>Replacement of Rejected Material:</b> Any material supplied against order place on basis of this tender and found to be defective on inspection or differing from approved samples or make or specifications will be replaced by the supplier free of cost or full refund made for the amount paid by Central Electronics Limited including freight and insurance and other incidental charges at our discretion.</p>
24.	<p><b>Termination for Default:</b>                  CEL may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or in part:</p> <p>9.1 If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser; or</p> <p>9.2 If the Supplier fails to perform any other obligation(s) under the Contract.</p> <p>9.3 If the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.</p> <p>For the purpose of this clause:</p> <p>“Corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution or a contract to the detriment of the borrower, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the borrower of the benefits of free and open competition.</p> <p>In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.</p> <p>The contractor/bidder shall not display the photographs &amp; content of the work and also will not take advantage through publicity of the work without written permission of CEL. Noncompliance to this may result in the blacklisted of firm.</p>
25.	<p><b>Force Majeure:</b> Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations, if the non-performance results from such Force Majeure circumstances i.e. Flood, Fire, Earth Quake and other acts of God as well as War, Military Operation, blockade, Act or Actions of State Authorities that have arisen after signing of the present contract. Party invoking this clause shall serve notice of seven days along with the proof of occurrence of the force majeure event to the opposite party. At the time of cessation of such force majeure event a notice of the same shall also be served to the opposite party.</p> <p>In such circumstances, upon a written approval of CEL, the time stipulated for the performance of an obligation under the present contract will stand extended correspondingly for the period of time of action of these circumstances and their consequences. However, any such extension shall be given only if extension is granted by the ultimate buyer/ user.</p> <p>Parties at all times take reasonable steps within their respective power's ad consistent with good operation practices (but without incurring unreasonable additional costs) to:</p> <p>a. Prevent Force Majeure Events affecting the performance of the Company's obligations under this agreement;</p> <p>b. Mitigate the affect of any Force Majeure Event; and</p> <p>c. Comply with its obligations under this agreement.</p> <p>Further if the period of Force Majeure event extends beyond three months* the parties may consider the foreclosure of the agreement.</p> <p>* Period of three months may vary at the discretion of CEL as per the validity period of the contract.</p>