

## 15 KWp BHEL INDUSTRY SECTOR LODHI ROAD

## Part A General Scope


By Bidder.

Sl. No	Name of Work	S/I/O	Unit	Rate/ Unit	Qty	Total	Rate/unit	Total
1	<b>Services related to Supplies made by BHEL</b>							
	Material Handling and Safe Keeping upto Installation and Handing Over to customer. Complete details as per Technical spec.	O	KW	1134	15	17010	1134	17010
2	<b>Installation of BHEL supplied items :</b>							
(a)	PV Modules	I	Nos	305	51	15555	305	15555
(b)	Inverter (10-100KWp)	I	Nos	9296	1	9296	9296	9296
(c)	ACDB (10-100KWp)	I	Nos	4676	1	4676	4676	4676
(d)	DCDB (10-100KWp)	I	Nos	5083	1	5083	5083	5083
4	<b>Civil Pedestal</b>							
a	Pedestal - PCC Blocks generally of Size 300*300*300 mm or more. Other support block sizes as per approved design may also be taken.	S&I	M3	14253	1	14253	14253	14253
5	<b>Monitoring of System Performance</b>							
5.a	deleted	S&I	0	0	0	0	0	0
5.b	Data logger as per specification	S&I	1Set	20000	1	20000	20000	20000
6	<b>Cable Laying</b>							
6a	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.							
6a1	16 Sq mm to 35 sq.mm AC	I	RMT	33	110	3630	33	3630
6a2	6x4 Sq mm DC to 8x4 Sq mm DC	I	RMT	33	100	3300	33	3300
6b	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.							
6b1	16 Sq mm to 35 sq.mm AC	I	RMT	39	20	780	39	780
6b2	6x4 Sq mm DC to 8x4 Sq mm DC	I	RMT	39	40	1560	39	1560
7	Supply & Installation of Conduits along with all accessories for Laying of Cable through it. Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.							
7d	50 mm	S&I	RMT	130	100	13000	130	13000
8	<b>Supply of Trey for Cable Laying</b>							
8b	10-35 sq.mm	S&I	RMT	112	100	11200	112	11200
9	<b>Supply and installation of Earthing Strip</b>							
9a	25x6 mm GI Strip	S&I	RMT	206	200	41200	206	41200
11	<b>Supply of Earthing Material and Installation after making of Suitable pit as per standard.</b>							
11a	For chemical Earthing/ Conductor Earthing (Pipe)	S&I	1No.	5308	3	15924	5308	15924
12	<b>TESTING</b>							
12a	<b>Electrical Test</b>							
12a1	String Voltage Measurement	O	KW	150	15	2250	150	2250
12a2	Earth Resistance Measurement as per specification	O	KW	120	15	1800	120	1800
12b	<b>Final Installation Checks</b>							
	LT Panel/ AC distribution Board Voltage & Current Checks	O	KW	90	15	1350	90	1350

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102

13	Termination of Solar Power Output for Power evacuation on existing distribution Board of Customer							
13a	To existing Board of from LT Panel/ACDB of rating Upto 50 KW by making suitable provisions.	S&I	Nos.	12000	1	12000	12000	12000
14	Name Plates	S&I	Nos.	275	3	825	275	825
15	Additional Safety arrangements for compliance of HSE/OHSAS requirements while working on RCC Roof above floor 4 or Tin shed roof above 5 Mtrs- cost such as barricading on roof, safety net, special PPEs, working platform for tin shed/tiled slope. (Partial capacity out of total shall be taken)	O	KW	210	15	3150	210	3150
<b>Part B Special Scope</b>								
2	Supply & Installation of Steel members after suit to site design by vendor for additional support or for superstructure etc. as approved by BHEL. Panting of existing structure is also included.	S&I	MT	124000	0.7	86800	124000	86800
19	Lighting arrester -special type (NFC series-European standard)	S&I	Nos	35000	1	35000	35000	35000
22	Additional Charges applicable for lifting of material on roof above floor IV or tin shed above 5 Mtrs (Material like PCC, Modules, Structure considered) 02 Mandays per Roof per 4 floors is considered - typical upto 50KW. (Partial capacity out of total shall be taken)	O	per Manday	553	4	2212	553	2212
<b>Part C Items not covered in Part-A&amp;B</b>								
<b>Items Covered Under Part C</b>								
1	AC CABLE (Aluminium) From ACDB to LT panel Inverter to ACDB							
1 (a)	Size : 4Cx16 SQM	S	RMT	103	105	10815	103	10815
2	AC CABLE (COPPER) Inverter to ACDB							
2 (a)	Size : 4Cx10 SQM	S	RMT	310	5	1550	310	1550
3	DC CABLE (COPPER)							
3 (a)	Size : 1Cx4 SQM	S	RMT	30	300	9000	30	9000
4	Dismantling of existing 10 KwP Solar Material 1. 55 Nos of Module 2. Existing Inverter, ACDB and DCDB and wiring All material to be kept in safe storage and custody of BHEL-IS/ROD- Delhi	O	Set	8000	1	8000	8000	8000
<b>Total</b>						<b>351219</b>		<b>351219</b>
<b>GST @18%</b>						<b>63219</b>		<b>63219</b>
<b>Total Including GST</b>						<b>414438</b>		<b>414438</b>
<b>Offered price above or Below</b>						<b>Above</b>		
<b>in Percentage (%)</b>						<b>0.00%</b>		

	<b>NIT Terms &amp; Condition</b>	Doc. No.	REG1920-20190247
		Part 01	NIT Term & Condition
Rudrapur	GROUP : REG(Renewable Energy Group)	Rev no	00

**NIT Terms & Condition**

1. **Price basis:** Firm i.e. from date of Work Order.
2. **Supply, installation & commissioning:** Successful bidder will complete the supply, installation and commisioning work as per scope with in 45 days.
3. **Payment terms:** Running Bill
  - a. Invoice copy - 4 Nos
  - b. Monthly O&M report duly signed
  - c. List of all tools and tackles with calibration certificates.
  - d. Copy of Maintenance register for the period duly signed by authorized representative of user. This will be treated as verified measurement for processing of bills.

4. **Earnest Money Deposit:**

EMD to be necessarily submitted (whether or not registered as MSME). This is to be ensured in line with provisions of "works contract".

**EMD of Rs. 8,500/-** (Eight Thousand Five Hundred Only) shall be submitted.

All details related to submission of EMD has been given in <sup>GCC</sup> (REG1920-20190247 / Part-05) in Chapter 01, Clause 7 (page 4/41) in form of pay order or demand draft payable at Rudrapur or NEFT/RTGS to BHEL office in favor of BHEL along with Offer.

5. **Security Deposit**

Security Deposit (SD) amount shall be 5% of the Contract value. This will have to be deposited by the successful bidder within a week of award of work (minimum 50% SD amount, as per GCC).


Complete details regarding submission of security deposit has been given in GCC (REG1920-20190247 / Part-05) in Chapter 01, Clause 8 (page 5/41).

6. **Risk Purchase Clause:** If the supplier fails to deliver the services within the stipulated period mentioned in the work order, BHEL shall be entitled to terminate the contract and to order the same or the best and the nearest available substitute from elsewhere at the risk and cost of the seller either the whole or any part of the goods/Services. In

Signature and seal of Bidder

*[Handwritten Signature]*

100

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		Part 01	NIT Term & Condition
Rudrapur	GROUP : REG(Renewable Energy Group)	Rev no	00

case of deviation or non-acceptance of Risk Purchase clause, offer shall be liable for rejection. **Risk & Cost Amount payable by Supplier or recoveries in-lieu of Risk Purchase may be recovered from supplier by encashing/invoking Bank Guarantee, Security Deposits available with BHEL against the same or any other contract or may be adjusted against dues available in the form of bills payable to supplier by BHEL against the same or any other purchase orders/contracts/work orders etc. placed on the supplier by any unit/region etc. of BHEL or through any other legal remedy available to BHEL.**

**Risk and Cost against Balance Work:**

$$\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$$

Where,

A= Value of Balance scope of Work/ Supply (\*) as per rates of new contract

B= Value of Balance scope of Work/ Supply (\*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any.

H = Overhead Factor to be taken as 5

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

**\*(Balance scope of work/ supply)**


Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work/ Supply for calculating risk & cost amount.

Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.

**Note: Non-acceptance/non-submission of any of the above requirements will render the offer liable for rejection.**

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Signature and seal of Bidder

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### DECLARATION BY THE BIDDER

I/We ..... (Hereinafter referred to as Bidder) being desirous of participating for tender, having fully understood the scope of tender and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document (**REG1920-20190247, REV 00**) do hereby declare that-

1. The Bidder is fully aware of all the requirements of the tender document (**REG1920-20190247, REV 00**) and agrees with all provisions of the tender document and accepts all risks, responsibilities and obligations directly or indirectly connected with the performance of the tender.
2. The Bidder is fully aware of all the relevant information for proper execution of the proposed scope of work, with respect to the proposed place of works/ site, its local environment, approach road and connectivity etc. and is well acquainted with actual and other prevailing working conditions, availability of required materials and labour etc. at site.
3. The Bidder is capable of executing and completing the work as required in the tender and is financially solvent and sound to execute the tendered work. The Bidder is sufficiently experienced and competent to perform the contract to the satisfaction of BHEL The Bidder gives the assurance to execute the tendered work as per specifications, terms and conditions of the tender on award of work.
4. The Bidder has no collusion with other Bidders, any employee of BHEL or with any other person or firm in the preparation of the tender.
5. The Bidder has not been influenced by any statement or promises by BHEL or any of its employees but only by the tender document.
6. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
7. The Bidder has never been debarred from similar type of work by any Government undertaking /Department. (An undertaking on Stamp paper in this regard shall have to be submitted)
8. The Bidder accepts that the earnest money may be absolutely forfeited by BHEL if the Bidder fails to sign the contract or to undertake the work within stipulated time.
9. All the information and the statements submitted with the tender are true.

Signature and seal of Bidder

	Pre- Qualification Requirement (PQR)	Doc. No.	REG1920-20190247
		Part 02	PQR
Rudrapur	GROUP : REG(Renewable Energy Group)	Rev no	00

### Chapter 01 – Experience Criteria


Sl. No	Description	Bidder to Confirm/Specify
1	Acceptance of following documents : a) NIT Terms & Conditions: REG1920-20190247 (Part-01) b) Pre- Qualification Requirement (PQR) REG1920-20190247 (Part-02) c) Technical Specification: REG1920-20190247 (Part-03) d) Special Terms & Conditions : REG1920-20190247 (Part-04) : e) General Conditions of Contract : REG1920-20190247 (Part-05)	<b>Agree**/Disagree</b>
2	To qualify for bidding against this tender – Bidder should have experience of having executed /executing following order/work :  <ul style="list-style-type: none"> <li>• For supply and I&amp;C of Solar PV plant of minimum 20 KWp cumulatively in last two (02) years.</li> </ul>	<b>Agree/Disagree</b>
3	The Average annual financial turnover during last three years ending 31 <sup>st</sup> March 2019 should be minimum <b>1.05 Lakh</b> . Bidder have to submit audited balance sheet & profit and loss account of last three financial years.	<b>Agree/Disagree</b>

**\*\* If bidder mentions “Agree”, it will be treated that bidder has confirmed to meet the respective PQR and has accepted all the related conditions. In case of mentioning “Disagree”, it shall be treated that bidder is not meeting the said PQR criterion and offer shall be liable for rejection.**

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Signature and seal of Bidder

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	Pre- Qualification Requirement (PQR)	Doc. No.	REG1920-20190247
		Part 02	PQR
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## Chapter 02 – Experience Criteria

### 1. Experience Criteria:

a) Bidder must have experience of having successfully completed similar works **during last seven years ending last day of month previous to one in which NIT is published** as per either of the following:

- Three similar completed works costing not less than the amount equal to **1.40 lakh** of the estimated cost, **OR**
- Two similar completed works costing not less than the amount equal to **1.75 lakh** of the estimated cost, **OR**
- One similar completed works costing not less than the amount equal to **2.80 lakh** of the estimated cost.

**Bidder shall submit the work order copies and completion certificates issued by end user in support of experience claim.**

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Signature and seal of Bidder