

| <b>SCHEDULE-A</b>   |             |                         |                                  |                          |            |               |
|---|-------------|-------------------------|----------------------------------|--------------------------|------------|---------------|
| <b><u>Name of Work:-</u></b>  |             |                         |                                  |                          |            |               |
| <b>Providing and Erecting solar roof top on grid system at New RTO office subhashbridge, Ahmedabad.</b> |             |                         |                                  |                          |            |               |
| <b>Sr. No.</b>  | <b>Qty.</b> | <b>Item Description</b> | <b>Rate in Figures<br/>(Rs.)</b> | <b>Rate in<br/>Words</b> | <b>Per</b> | <b>Amount</b> |
| <b>NIL</b>  | <b>NIL</b>  | <b>NIL</b>              | <b>NIL</b>                       | <b>NIL</b>               | <b>NIL</b> | <b>NIL</b>    |
|   |             |                         |                                  |                          |            |               |

**Signature of Contractor**

**Dy. Executive Engineer  
M.S. Elect. Sub- Division  
R & B Deptt., Ahmedabad.**

## SCHEDULE-B

**Name of work: Providing and Erecting solar roof top on grid system at New RTO office subhashbridge, Ahmedabad.**

| SR NO. | QUANTITY | DESCRIPTION   | Unit | Rate in words | Rate in figure | AMONUT |
|--------|----------|---|------|---------------|----------------|--------|
| 1      |          | <p>Supply, Installation, Testing &amp; Commissioning of following size of Grid Tied Solar Power Plant with</p> <p>Solar Panels (ALMM approved): Frame Material : Anodized Aluminum alloy Frame With Twin Wall Profile, Front Cover : High Transmission Low-Iron Tempered Glass (AR Coated), High efficiency and positive power tolerance Pmax: 0/+5, Module Efficiency should be approx. 19.5%-22%, Normal operating temperature 45°C, Junction Box with Waterproof IP67 &amp; MC4 Compatible and Enclosed with Bypass diodes, 100% Electroluminescence test to ensure error free Modules, Thep. temp. co-efficient of the PV module shall equal or better than -0.45%/degree C. Solar PV modules of minimum fill factor 75% to be used. Unit Production:- More than 4.5 Unit /kw /day (Actual)(1Year Avg) With 10 year Product warranty. <b>Modules must be complied to the DCR(Domestic content requirements).</b> The Ration of AC to DC is 5:6 for the Installation capacity which are given in AC KW.</p> <p>Solar Inverter: MPPT Range: MPPT Range: 80-1000 V , Max efficiency: 97.5% - 98.9%, O/p Frequency: 50/60Hz, Operating Altitude (m) ≤4000, O/p Power Factor: ~1, O/P THDi: &lt;3%, Operating Temperture Range: -25~60°C, Integrated protection of Inverter are Anti-islanding Protection, Input Reverse Polarity Protection, Insulation Resistor Detection, Ground fault protection, Residual Current Monitoring Unit, Output Over Current Protection, Output Short Circuit Protection, Output Over Voltage Protection, PV array string fault Protection. Protection Degree: IP65, User Interface LCD &amp; APP, Datalogger &amp; Communication: GPRS / Wi-Fi.</p>  |      |               |                |        |
|        |          | <p>Integrated, Input Reverse Polarity Protection Integrated, Insulation Resistor Detection Integrated, Residual Current Monitoring Unit Integrated, Output Over Current Protection Integrated, Output Short Circuit Protection Integrated, Output Over Voltage Protection Integrated, Protection Degree: IP65, User Interface LCD &amp; APP,Datalogger &amp; Communication: GPRS / Wi-Fi, Module Mounting Structure: The mounting (Rectangular pipe / square pipe / circular pipe) with requisite cross bars, nuts and bolts, etc. shall be Hot deep galvanized with minimum 80micron coating. The Rectangular / square /circular hollow pipe section used for the structure should have a minimum thickness of 2.0 mm. other than above, the material thickness should be minimum 2.5 mm. A certificate of a structural engineer certifying the strength and stability of the mounting structure to withstand the weight and wind speed of 150 km/hour , shall be submitted by the vendors. Hot Dipped Galvanized steel coils. suitable arrangement for base plate for foundation , solar panel mounting, the structure should be suitable for carry the load of solar panel,wiring, sprinkler system etc. with necessary foundation work/wall mount, j bolt, anchor fastner etc. the nut bolt used for installtion of stucture should be (SS 304) quality.The ground clearance of the bottom most edge of solar panel shall not be less than 300 mm to 1200 mm <b>or as per site's technical/feasibility requirement.</b></p> <p>a. Column –The minimum section (thickness) should be 60MM*40MM</p> <p>b. Rafter - The minimum section (thickness) should be 60MM*40MM</p> <p>c. Purlin - The minimum section (thickness) should be 40MM * 40MM Balane of System with necessary Switchgears (Suitabel size and protection of ACDB &amp; DCDB), inter connecting wiring, earthing system as per the CEIG drawing approval,</p> |      |               |                |        |

|          |            |   |     |  |          |            |
|----------|------------|---|-----|--|----------|------------|
|          |            | lightning arrester system as per the CEIG drawing approval, all liasoning work with various gov. dipartment like state nodal agency,DISCOM & CEIG is included in agency scope (Excluding All charges namely GEDA Application fees, Solar connectivity Charges, Meter connectivity Charges, Meter testing Charges and system stability/strenthning charges.) |     |  |          |            |
|          |            | (Excluding GEDA Application fees, Solar connectivity Charges, Meter connectivity Charges, Meter testing Charges.)   |     |  |          |            |
|          | <b>100</b> | (E) Grid Tied Solar Power System: 51 - 100 kW (3 - phase)   | Ea  | Rupees Forty Thousand Six Hundred Fifty Eight And Paise Fifty Six Only | 40658.56 | 4065856.00 |
| <b>2</b> |            | Providing and erecting XLPE FRLSH(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables   |     |  |          |            |
|          | <b>100</b> | (F) 3 1/2 core 120 Sq. mm ( 70 Sq. mm 1/2 core)   | Mtr | Rupees Six Hundred Forty Eight And Paise Forty Two Only                | 648.42   | 64842.00   |
| <b>3</b> | <b>30</b>  | Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.   | Mtr | Rupees Seventy Four And Paise Seventy Four Only                        | 74.74    | 2242.20    |
|          | <b>30</b>  | (B) If additional machinery like hammer driller or JCB use [Add]  | Mtr | Rupees Three Hundred Fifty Seven And Paise Fifty Four Only             | 357.54   | 10726.20   |
| <b>4</b> |            | Drilling the road without breaking the road surface (Asphalt) for laying of cable for feeding power supply by making up to following size of holes at both ends complete.   |     |  |          |            |
|          | <b>15</b>  | (B) Up to 150 mm bore dia   | Mtr | Rupees Six Hundred Sixteen And Paise Ten Only                          | 616.10   | 9241.50    |
| <b>5</b> |            | Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II )with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable   |     |  |          |            |
|          | <b>40</b>  | (D)120 mm outer dia.  | Mtr | Rupees One Hundred Thirty Seven And Paise Thirty Six Only              | 137.36   | 5494.40    |
| <b>6</b> |            | Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.   |     |  |          |            |
|          | <b>2</b>   | (E) 3 & 1/2 core 120 Sq. mm   | Ea. | Rupees One Hundred Forty And Paise Thirty Nine Only                    | 140.39   | 280.78     |
|          | <b>2</b>   | (C) 3 & 1/2 core 70 Sq. mm  | Ea. | Rupees One Hundred Three And Paise Two Only                            | 103.02   | 206.04     |
| <b>7</b> |            | Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner.  |     |  |          |            |
|          | <b>2</b>   | (E) 70 Sq.mm.   | Ea. | Rupees Twenty Five And Paise Twenty Five Only                          | 25.25    | 50.50      |
|          | <b>6</b>   | (G) 120 Sq.mm.  | Ea. | Rupees Forty Five And Paise Forty Five Only                            | 45.45    | 272.70     |

|              |    |   |      |  |         |                   |
|--------------|----|---|------|--|---------|-------------------|
| 8            |    | Providing and fixing approved make Perforated C type cable tray. Made from sheet steel. The cable tray should be single or double bended as per required and as per IS 2062/1079 and shall be coated with hot dip galvanizing as per IS 2629/4759. with max 17.5% perforation with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erection with necessary support( included) as per Specification and as per instruction of engineer in charge.. |      |  |         |                   |
|              | 50 | (3) 150 X 50 X 1.6 mm Thick   | Rmt. | Rupees Four Hundred Twenty Four And Paise Twenty Only                  | 424.20  | 21210.00          |
| 9            | 8  | carry out RCC Core cutting- up to 100 mm dia./300mm thick Wall/beam/slab with providing PVC pipe of 3 mm thick inside and necessary finishing on both ends of wall .  | JOB  | Rupees One Thousand Five Hundred Forty Nine And Paise Thirty Four Only | 1549.34 | 12394.72          |
| <b>Total</b> |    |   |      |  |         | <b>4192817.04</b> |

**Rupees Forty One Lakh(s) Ninety Two Thousand Eight Hundred Seventeen And Paise Four Only**

**GST Extra.**

I/We am/are willing to carry out the work at \_\_\_\_\_ % above/below percent(Should be written in figures and words) of the estimated rate mentioned above. Amount of my /our tender works out as under.

Estimated amount put to tender

Deduct.....% below

Net

In words

Estimated amount put to tender

Add ..... /% Above

Net

In words

|   |   |
|---|---|
| 1 | The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.  |
| 2 | The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.  |
| 3 | GST and Income tax TDS will be deducted at a source while making payments of bills  |
| 4 | In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/G Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender. |

**Signature of Contractor**

**Dy. Executive Engineer  
M.S. Elect. Sub- Division  
R & B Deptt., Ahmedabad.**