

CORRIGENDUM – II TO BIDDING DOCUMENTS FOR

Planning, Design and Construction for Annex and Hostel Buildings for Post Graduate Disciplines at Deben Mahata Government Medical College & Hospital in the State of West Bengal on Turnkey Basis

Bid Reference No.: WBMSCL/NIT- 180/2023

Dated -18.04.2023

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|------------|-------------|---|--------------------|--|---|--|--|---|---|--|-----------------------------------|--|
| | 4 | Section-1 Notice Inviting e- Tender (e-NIT) | 3. | for Annex a Disciplines College & J Turnkey Ba Quantities (the following A. Planning, Annex build B. Vertical e resident Doo C. Vertical e intern's host The other re | ITB) would be "Planning, Design, and Construction for Annex and Hostel Buildings for Post Graduate Disciplines at Deben Mahata Government Medical College & Hospital in the State of West Bengal on Turnkey Basis" as explained in detail in the Bill of Quantities ("BOQ"), which shall chiefly comprise of the following : A. Planning, Design and Construction of a G + 9 Annex building B. Vertical extension of another 5 floors to the existing resident Doctor's hostel C. Vertical extension of another 5 floors to the existing intern's hostel The other relevant details pertaining to the Project are as follows: - | | | | ITB) would be "Planning, Design, and Construction for Annex and Hostel Buildings for Post Graduate Disciplines at Deben Mahata Government Medical College & Hospital in the State of West Bengal on Turnkey Basis" as explained in detail in the Bill of Quantities ("BOQ"), which shall chiefly comprise of the following : A. Planning, Design and Construction of a G + 9 Annex building B. Vertical extension of another 5 floors to the existing resident Doctor's hostel C. Vertical extension of another 6 floors to the existing intern's hostel The other relevant details pertaining to the Project are as follows: - | | | |
| | | | | Total Bid Security (Rs. in Crores) | Bid Security payable through e – tendering portal (Rs. | Bid Security payable by way of Bank Guarantee | Time of Completion (Months) | Total Bid Security (Rs. in Crores) | Bid Security payable through e – tendering portal (Rs. in Crores) | Bid Security payable by way of Bank Guarantee (Rs. in Crores) | Time of Completion (Months) | |
| | | | | 1.56 | in Crores) 0.20 | (Rs. in Crores) 1.36 | 24 months | 1.56 | 0.20 | 1.36 | 24 months | |
| 2 | 8 | Section-1 Notice Inviting e- Tender (e-NIT) | 8(iii)(c) | Crores durin, 2018, 2018-2 | g last 5 (Five) 2019, 2019-202 | financial yea 20, 2020- 202 | <i>rs</i> (<i>i.e.</i> 2017- 21 and 2021- countant with | Crores durin 2018, 2018-2 | Average Annua 29 last 5 (Five) 2019, 2019-20 29 certified by the |) financial yea 20, 2020- 202 | urs (i.e. 2017- 21 and 2021- | |

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| 3 | 23 | Section – 2 Instructions to Bidders (ITB) | 4.1(c) | "Minimum Average Annual Turnover of Rs. 78.64 Crores during last 5 (Five) financial years (i.e. 2017- 2018, 2018-2019, 2019-2020, 2020-2021 and 2021- 2022), duly certified by the Chartered Accountant with UDIN No." | 2018, 2018-2019, 2019-2020, 2020-2021 and 2021- |
| 4 | 53 | Section – 2 Instructions to Bidders ("ITB") | 39.1 | Contract Price may be given, if requested by the Selected Bidder/Contractor in writing within 30 (thirty) days of the issue of Notification of Award. The Employer shall pay the Mobilisation Advance to the Contractor, in the following 2 tranches, upon completion of the following events :- (a) First tranche of the Mobilisation Advance equivalent to 5% of the Contract Price shall be paid by the Employer, upon completion of the following events/activities: (i) Construction of labour camp, Contractor's site office and making arrangements for water supply (ii) Construction of the Employers' temporary site office at the site. (iii) Obtaining a Mobilisation Advance Bank Guarantee from a scheduled bank as per form given in Section - 7 (Contract Forms) aggregating to 5% of the Employer. (b) Second tranche of 5% of Mobilisation Advance will be released by the Employer to the Contractor, upon completion of payment by the Employer, of 15% of the total Contract Price and upon the Contractor obtaining a Mobilization Advance will be released by the Employer to the Contractor, upon completion of payment by the Employer, of 15% of the total Contract Price and upon the Contractor obtaining a Mobilization Advance will be released by the Employer to the Contractor, upon completion of payment by the Employer, of 15% of the total Contract Price and upon the Contractor obtaining a Mobilization Advance Bank Guarantee from a scheduled bank as per form given in Section - 7 (Contract Forms) aggregating to 5% of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the second tranche of the Contract Price, being equivalent to the secon | (i) Construction of labour camp, Contractor's site office and making arrangements for water supply (ii) Construction of the Employers' temporary site office at the site. (iii) Obtaining a Mobilisation Advance Bank Guarantee from a scheduled bank as per form given in Section - 7 (Contract Forms) for an amount equivalent to the |

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| | | | | The Mobilisation Advance above shall bear simple interest @ 10% per annum. Repayment of the Mobilisation Advance shall commence from payment of the Statement first raised after disbursement of first tranche of the Mobilisation Advance and shall been entered as a deduction from Interim Payment (@ 10% of the value of all the Statements paid so far + simple interest @ 10% of the total Mobilisation Advance | effected, if necessary, by encashment of part of the Mobilisation Advance Bank Guarantee if the appropriate pro-rata amount of advance is not available from the Works done by the Contractor. If the circumstances are considered reasonable by the Employer, the period mentioned for request by the Contractor in writing for grant of Mobilisation Advance may be extended in the discretion of the Employer. The said Mobilisation Advance Bank Guarantee for advances shall initially be made for the full amount and valid for the Contract period and be kept renewed from time to time to cover the balance amount and likely |

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| 5 | 58 | Section – 3 Evaluation and Qualification Criteria ("EQC") | 1.2.2 | Minimum Average Annual Turnover of INR 78.64 Crores within the last 5 (five) financial years i.e. 2017-2018, 2018-2019, 2019-2020, 2020-2021 and 2021- 2022. | Must meet requirement | Form FIN-2 of Form – 14 | Minimum Average Annual Turnover of INR 23.59 Crores within the last 5 (five) financial years i.e. 2017-2018, 2018-2019, 2019-2020, 2020-2021 and 2021- 2022. | Must meet requirement | Form FIN-2 of Form – 14 |
| 6 | 70 | Section – 4 Bidding Forms ("BDF") | Form 4 Bid Security Bank Guarantee | "IFS | S Code: ICIC00011 | 103 '' | "IFS Code: ICIC0001056" | | |
| 7 | 130 | Section-5.5 Scope & Specification of Civil Works | 4.B.2 | architectural des institutions as re any structural minimum 20 yea and which is en metropolitan corp from academic corporation body who does not h Design wing. But fledged in-house from obtaining | ign duly approved ecommended by th and architectural ars of experience mpanelled & regu poration body in In institutions / is required only f have their own in t those who have t Structural Design | | architectural des institutions as re any structural minimum 15 yea and which is en metropolitan corr from academic corporation body who does not h Design wing. Bu fledged in-house from obtaining | ign duly approved ecommended by th and architectural ars of experience mpanelled & regu poration body in In institutions / is required only f have their own in t those who have t Structural Design | drawing, concept l by the academic e Employer or by firm having a in respective field stered under any dia. This approval any metropolitan for intended bidder house Structural heir exclusive full- wing is exempted any academic on body of India". |
| 8 | 130 | Section-5.5 Scope & Specification of Civil Works | 4.B.4 (c) | "All approach co Highway/State H with storm wate landscaping for | oncrete roads (upte lighway/Major Dis er drainage syste all the campu | o nearest National strict Road) along m, Pathways and uses have to be n of Culvert, IRC | "All approach co Highway/State H with storm wate landscaping for | oncrete roads (upt lighway/Major Dis er drainage syste all the campu | o nearest National strict Road) along m, Pathways and ses have to be 1 of Culvert, IRC |

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| | | | | Class 70R/Class A/Class AA loading & other IRC Codes has to be followed as per approval of the Employer. Ministry of Road Transport Highways (MoRTH) Specification has to be followed for connection of Road with National Highway. In other instances respective authorities has to be contacted." | Class 70R/Class A/Class AA loading & other IRC Codes has to be followed as per approval of the Employer. Ministry of Road Transport Highways (MoRTH) Specification has to be followed for connection of Road with National Highway. In other instances respective authorities has to be contacted. Landscaping shall be required to be carried out over an area equivalent to approximately thrice the built up area of ground floor of structures to be constructed subject to availability of land." |
| 9 | 135 | Section-5.5 Scope & Specification of Civil Works | 12.1 (2 nd Paragraph) | "• The employer reserves the right to conduct third party design validation by their 3rd party assessor and the successful bidder shall provide all data in soft and hard copy and carry out all modifications that may be suggested by the party so appointed. An authorized representative of the bidder will assist at the time of checking of structural design & drawings by 3rd party assessor for necessary clarification and for providing required data and statements to them." | "• The Employer shall provide the existing design based structural stability certificate of the existing structures which are available with the Employer, where vertical extension is required to be done to the bidders, if requested. The employer reserves the right to conduct third party design validation by their 3rd party assessor and the successful bidder shall provide all data in soft and hard copy and carry out all modifications that may be suggested by the party so appointed. An authorized representative of the bidder will assist at the time of checking of structural design & drawings by 3rd party assessor for necessary clarification and for providing required data and statements to them." |
| 10 | 229 | Section-5.6 Scope & Specification of Electrical Works | 7.15A | After Clause 7.15, the following clause has been added | "7.15A Specification of External High Mast Light a) 16 mtrs. height polygonal shape continuously tapared made from high tensile steel conforming to BSEN 10025 grade S355, having dimensions and thickness bottom A/F 410 mm, Top A/F 150mm plate thickness 4/3 mm, PCD 490 mm High Mast complete with base compartment with water proof door (consisting 3Ph power tool motor, mechanical torque limiter, double drum winch with 2 nos. 6 mm appropriate length SS wire rope, winch gear box, wire rope clamps & bobbin arrangement, removable handle for manual operation, plug & socket, PVC board, MCB box etc.), Mast header assemble fabricated from ERW steel |

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| | | | | | pipe with cable entry provision fitted with three-six pulley system which can accommodate wire ropes and electrical cables as per the requirements, to be provide single spike lightning final, aviation light fixing arrangement and all arrangement for fixing of luminaries. b) Foundation blots as per manufacturer specification and as direction by EIC for above pole along with nuts, washer, anchor plate and common template. c) LED type single dome aviation obstruction light (Bajaj/ approved make as direction by EIC. d) SITC highly efficient LED Flood light with lens made of pressure die cast aluminium housing, extruded aluminium heat sink & enclosed with toughened glass. IP66 200 Watt Make – Halonix (HLFLD-ML10-200-CWL)/Philips/Havells approved by / as direction by EIC. e) Foundation design & drawing to be approved from EIC. f) Outdoor type stand mounted feeder piller box with timer made from 14 SWG MS sheet and 40mmx40mmx 5mm angle iron frame as required consisting with 1 no 32A FP MCB as incomer, 1 no. analog time switch, 1 no 25 amp TP contractor for lighting power supply and 2 nos. 9 amp TP contactor for power tool control and raise- lower push button, 60 Amp grade backlit/FRP connector 12 ways & neutral bar incl. internal connections and paintings.(size of piller box 900mmx450mmx 300mm with one side door opening) g) 3" dia. 1.5 Mtr. Long heavy gauge G.I. Pipe |

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| | | | | | (minipole) having 9" X 9" X 1/2" M.S. sole plate welded with drilled hole at bottom of the pole to be installed on roof of building with S.F. earthing bolts, nuts washers. h) Erection of Single GI Mini Tubular Pole of length as given below with/without sole plate & Cap etc. in CC foundation above roof surface after necessary cheaping roof (Proportion and dimension indicated below), having CC (6:3:1) muffing of size 450x450x600 mm above base block including 19mm plaster with 3 mm thick neat cemented finish and GI earth bolt after making drilled holes etc. on pole & carriage of pole upto 1.6 Km from Store to work-site including filling up the excavated earth pit with shifted soil and ramming properly incl. S&F of 200mmX150mmX100mm mm GI loop box in C.C foundation. i) Supply & fixing of single arm header assembly made with 100mm dia. GI pipe Jacket of 30cm long with 1.5 mtr. long 40mm dia. GI pipe bracket duly welded with top cap at an angle of 110 degree with the vertical incl. 12 mm dia. full threaded through nuts-bolts and 3 nos. supporting nut-bolts etc. including necessary painting as per direction of EIC. j) Connection, termination and commissioning of entire High Mast system with suitable sized cable, separate outdoor type electrical panel nearby and other accessories required for commissioning the entire system." |
| 11 | 252 | Section-5.6 Scope & Specification of Electrical Works | 10 | Digital Amplifier: Input Voltage: 24 VDC Maximum DC Current: 10Amps Maximum Watts: 125/250Watt Operates on 220V, A.C supply. Battery backup with built in charging. Low battery visual warning with audible tone. DC Output indication. | DELETED |

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| | | | | PA Ceiling Speaker: Flush mount 15cm dynamic cone speaker. Three field selectable power taps. ABS plastic grill with metal punched net. Easy to install with spring catch mount. Connectors with screw for hooking up the wires tightly. Protective dust cover at rear. The white color of the grill has been selected to be obtrusive in virtually all interiors. Power: 10W Toppings 100V line: 1.5W / 3W / 6W Sound Pressure Level : 92dB (1W,1M), Frequency : 60-15000Hz Material: ABS Plastic. Dimensions: \$\eta 160 mm, H 70 mm. PA Wall Speaker: Model Description Wall mounted with cone speaker for announcement and paging. Attractive, stylish ABS white plastic box. The specially designed slim speaker is obtrusive in all interiors. Equipped with the transformer to provide 100v line. Ideal for office cabin, work stations, classrooms, shops, malls etc. Optional Volume control. Music Power : 10W Impedance : 100V line Tapping's : 1.5, 3W, 6W Dynamic Cone Speaker : 1 X 12.5 CM Frequency : 60 - 15000Hz SPL@(1W/1M) : 90 dB Dimensions : (135 H X 190 L X 120D) mm | |
| | | | | • PA Horn has been provided with 100V line | |

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| | | | | Matching Transformer with multiple taps easily selectable by changing the rotary switch at the rear of the sealed assembly. This is indoor/outdoor applications. Input Power :15W(RMS) 24W(Max) Taps : 2.5W, 5W, 7.5W, 10W, 12.5W, 15W Impedance : 100V Line Frequency Response : 275 - 7000 Hz Type : ABS Plastic Size : 205 \u03c6 (271 L) SPL @1Khz : 106dB | | | | | | |
| 12 | 259 | Section-5.6 Scope & Specification of Electrical Works | 13.1.1 | Sl. Building No. Building 1 Annex Building/ Academic Building (for • Rampurhat Govt. Medical College & Hospital) • Deben Mahato Govt. Medical College & Hospital • Diamond HArbour Govt. | Minimum quantity of lift shall be installed 4 (four) nos. bed cum passenger lift (20 or 16 passenger capacity)/ As per requireme nt approved | Provision | SI. No. 1. | Building Annex Building/Acade mic Building for Deben Mahata Govt. Medical College & Hospital | Minimum quantity of lift shall be installed 4 (four) nos. bed cum passenger lift (20 passenger capacity)/ As per requireme nt approved by EIC. | Provision New Lifts shall be installed and commissi oned. |
| | | | | Medical College Raiganj Govt. Medical College & Hospital) Raiganj Govt. Medical College & Hospital) 2 Resident Doctor's Hostel (for Rampurhat | by EIC. 2 (two) no. passenger lift (08 | Vertically extended or New as | 2. | Resident Doctor's Hostel for Deben Mahata Govt. Medical College & Hospital Intern's Hostel | 2 (two) no. passenger lift (08 passenger capacity)/ As per requireme nt approved by EIC. 2 (two) no. | Vertical extension of 01 (one) existing lift and Installati on of 01 (one) new lift. Vertical |

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| | | | | Debe Govt Colle Hosp Dian HArt Med & Raig Med & Hosp Govt Colle Hosp | ege & oital) • en Mahato en Mahato ege & oital • nond bour Govt. ical College Hospital) • anj Govt. ical College Hospital) • anj Govt. ical College bital)Raiganj c. Medical ege & oital | passenger capacity)/ As per requireme nt approved by EIC. | per the site condition. | for Deben Mahata Govt. Medical College & Hospital | passenger lift (08 passenger capacity)/ As per requireme nt approved by EIC. | extension of 01 (one) existing lift and Installati on of 01 (one) new lift. |
| | | | | (for Govt Colld Hosp Debe Govt Colld Hosp Dian HArt Medu & A Raig Medu | ege & pital) • en Mahato c. Medical ege & | 2 (two) no. passenger lift (08 passenger capacity)/ As per requireme nt approved by EIC. | Vertically extended or New as per the site condition. | | | |

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| 13 | 264 | Section-5.6 Scope & Specification of Electrical Works | II. SPECIFICAT ION FOR ELECTRICA L AND MECHANIC AL ENGINEERI NG SERVICES: 15. SPECIFICA TION OF SOLAR SYSTEM | "15. SPECIFICATION OF SOLAR SYSTEM: Deliverable of 2×50 KWp Grid Connected Roof Top Solar PV Power Plant: A. Outline of the scheme of the project: • The array capacity of the proposed grid connected PV Power plants shall be 2x 50kWp for the entire campus. • The PV array shall be installed on the available space of the Roof of the Building. • The power plant shall be connected with grid with five numbers grid tie string inverters each of capacity 10 KVA, 3Ø 415 V 50Hz AC. • The inverters shall be installed in a suitable kiosk(s) with proper security protection close to the Array Terminal Box with arrangement of proper shed. • Outputs of the grid tie string inverter shall be terminated to an Inverter Combiner Panel to be located close to the inverters. • The output of the Inverter Combiner Panel shall be terminated and connected with supply mains through Grid interfacing Panel • An Export Import Energy Meter to be installed nearer to the Grid interfacing Panel before connected to the mains to measure the energy produce from the PV Power Plant A.8 The SPV power plant to be installed should be Robust, Economic, Efficient and Time tested. B. Solar PV Modules: The Cell of the Modules shall be poly crystalline. The capacity shall be consider as per declared capacity in the published technical brochures of the proposed PV Module Manufacturer. Minimum number of PV Cell 1 240 Wp/250 Wp 60 Nos. 2 290 Wp / 300 Wp 72 Nos. The PV modules must qualify the relevant IEC 61215 or IS 14286 and IEC 61730.The proposed PV Module must have the Test Certificate issued from accredited test laboratories of MNRE Government of India under JNNSM Programme. The test certificates issued from IEC accredited laboratories shall also be acceptable. Proposed PV Module must be manufactured in India. Each PV module used in this solar power project must use an RF identification tag. The information must be | DELETED |

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| | | | | mentioned in the RFID used on each module as per | |
| | | | | guideline of MNRE Government of India (This can be | |
| | | | | inside or outside the laminate, but must be able to | |
| | | | | withstand harsh environmental condition | |
| | | | | Manufacturer of proposed PV modules must have the | |
| | | | | ISO 9001:2008 or ISO 14001 Certification for their | |
| | | | | manufacturing unit for their said manufacturing item. | |
| | | | | Desired specification of the PV Module shall include | |
| | | | | but not limited to the following: Sl No Item | |
| | | | | Description 1.0 Certification i) IEC 61215 or IS 14286 | |
| | | | | <i>ii)</i> IEC 61730 1.1 Test certificate issuing authority. | |
| | | | | NABL/ IEC Accredited Testing Laboratories or MNRE accredited test centers. 2.0 PV Cell 2.1 Type poly | |
| | | | | crystalline 2.2 Size 156mmX156mm 3.0 PV Module | |
| | | | | 3.1 Rating at STC i)240 Wp/ 250Wp, 60 cells (without | |
| | | | | any negative tolerance) ii)290 Wp / 300Wp, 72 cells | |
| | | | | (without any negative tolerance) 3.2 Efficiency | |
| | | | | minimum14% 3.3 Fill factor Minimum 70% 3.4 | |
| | | | | Withstanding voltage 1000V DC 3.5 Glass 3.5.1 | |
| | | | | Thickness 3.2 mm (minimum) 3.5.2 Type High | |
| | | | | transmission, low iron, tampered & textured glass | |
| | | | | with anti reflective coating. 3.6 PV Module Junction | |
| | | | | Box 3.6.1 Protection level IP 65 or above 3.7 Bypass | |
| | | | | Diode 3.7.1 System Voltage (Vsys) 1000 V dc 3.7.2 | |
| | | | | Number 3 numbers 3.8 Module Frame 3.8.1 Type | |
| | | | | Anodized aluminum frame C. PV Array Desired | |
| | | | | specification of the PV Array shall include but not | |
| | | | | limited to the following: Sl No Item Description 1.0 | |
| | | | | Nominal Capacity 1x50 KWp 2.0 PV Module | |
| | | | | interconnection connector MC-4 / Tyco 3.0 PV Module interconnection cable and array cable PV 1-F | |
| | | | | standard /NEC standard "USE-2 or RHW-2" type (| |
| | | | | double insulated) 4.0 PV array String Voltage | |
| | | | | Compatible with the MPPT Channel of the inverter 5.0 | |
| | | | | Number of Parallel String against each MPPT | |
| | | | | Channel 02 Nos (Maximum) D. Array Structure i) The | |
| | | | | solar PV system capacity minimum 100 KWp have to | |
| | | | | install at shadow free multiple locations as per | |
| | | | | availability of free roof top space of the buildings. ii) | |

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| | | | | PV Array structures shall be of Mild Steel with | |
| | | | | combination of either of I, C, L sections MS flat as | |
| | | | | per structure design requirement. The structure should | |
| | | | | be capable of withstanding a wind load of 150 km/hr | |
| | | | | after grouting & installation. iii) Weight of the Metallic part of PV Array structure excluding nuts and | |
| | | | | bolt must be minimum same as the Weight of the total | |
| | | | | <i>PV Module. iv) Structural shall be corrosion resistant</i> | |
| | | | | and electrolytically compatible with the materials used | |
| | | | | in the module frame, its fasteners, nuts and bolts. v) | |
| | | | | The array structure shall be made of hot dip | |
| | | | | galvanized MS structure of minimum galvanizing | |
| | | | | thickness 70 to 80 micron vi) Structures shall be | |
| | | | | supplied complete with all members to be compatible | |
| | | | | for allowing easy installation. vii) The module | |
| | | | | mounting structure shall have to be designed and | |
| | | | | fabricated with optimum tilting angle considering the | |
| | | | | site conditions. viii) The structure shall be designed | |
| | | | | for simple mechanical and electrical installation. It | |
| | | | | shall support SPV modules at a given orientation, | |
| | | | | absorb and transfer the mechanical loads to the | |
| | | | | ground. ix) All fasteners for supporting conduits, nut | |
| | | | | & bolts shall be made with stainless steel, very good | |
| | | | | quality stainless steel except foundation bolts and the nuts and bolts to be used for connection of earthing | |
| | | | | strip with module mounting structure which will be of | |
| | | | | MS (GI Coated) x) Supporting structures including | |
| | | | | module Mounting structure shall have to be | |
| | | | | adequately protected against all climatic condition. | |
| | | | | The array structure shall support SPV modules at a | |
| | | | | given orientation and absorb and transfer the | |
| | | | | mechanical loads to the columns properly. xi) The | |
| | | | | structures shall be designed for simple mechanical | |
| | | | | and electrical installation. There shall be no | |
| | | | | requirement of welding or complex machinery at the | |
| | | | | installation site. Required civil work or support | |
| | | | | platform is absolutely essential to install the | |
| | | | | structures, detailed engineering drawings and | |
| | | | | instructions for civil and other works shall got | |

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| | | | | approved from the competent authority before carried out at the site. xii) The Specification of the MS | |
| | | | | sections, flats must be as per IS 808 xiii) The supplier | |
| | | | | shall specify installation details of the PV modules and | |
| | | | | the support structures with appropriate diagrams and | |
| | | | | drawings. E. PV Array Junction Box (AJB) Array Junction Box (AJB) shall have to be used for | |
| | | | | termination of string prior connecting array with each | |
| | | | | inverter. There shall be two Arrays Junction Box | |
| | | | | incase, the inverter is located elsewhere away from PV | |
| | | | | Array. The minimum number of PV Array Junction | |
| | | | | Box shall be five (05) numbers. The desired | |
| | | | | specification of the PV Array Junction Box and accessories shall include but not limited to the | |
| | | | | following: Sl No Item Description Desired Data 1.0 | |
| | | | | Enclosure 1.1 Degree of Protection IP65 with UV | |
| | | | | Protected 1.2 Material Polycarbonate. 1.3 | |
| | | | | Withstanding voltage 1000V DC 1.4 Withstanding | |
| | | | | Temperature 100 OC 1.5 Accessories mounting | |
| | | | | arrangement DIN Rail 1.6 Number of Strings entry As may be required 1.7 Approved Make Hensel/ | |
| | | | | Spelsberg /ABB /Ensto or or equivalent make (as per | |
| | | | | acceptability of authority) 2.0 Cable Entry and Exit | |
| | | | | 2.1 Position Bottom at cable entry and exit 2.2 Cable | |
| | | | | Entry and Exit connector type MC 4 Connector (PV | |
| | | | | Array String cable) 2.3 Cable gland Earthing cable | |
| | | | | entry 3.0 Surge Protecting Device (SPD) 3.1 Type DC | |
| | | | | 3.2 Approved Make OBO Betterman / Dehn / Citel /ABB or equivalent make (as per acceptability of | |
| | | | | authority) 3.3 Protection class Type $B+C$ 3.4 Number | |
| | | | | of set As may be required as per string Design 3.5 | |
| | | | | System Voltage Matched with System Voltage 1000 V | |
| | | | | DC 4.0 Fuse with fuse holder 4.1 Position Positive | |
| | | | | and negative terminal for each series string 4.2 Type | |
| | | | | Glass fuse, for PV Use only 4.3 Rating Current: Minimum 1.25 times the rated short circuit current of | |
| | | | | the string Voltage: Minimum 1000 V DC 5.0 Earthing | |
| | | | | Provision Terminal blocks will have to be provided for | |
| | | | | Earthing 6.0 Terminals, lugs and bus bar Tinned | |

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| | | | | copper F. Grid Connected Inverter The inverters shall be of string inverter. The proposed 2x 50 KWp grid connected solar PV power plant shall be connected | |
| | | | | with grid. As such, the inverters shall be compatible to | |
| | | | | operate with existing utility supply. The PV system | |
| | | | | shall comprise of ten (10) numbers of grid tie inverters each of nominal capacity 10 KVA. Desired | |
| | | | | specification of each 10 KVA inverter shall include but | |
| | | | | not limited to the following: Sl. No. Operating Parameter Desired specification 1.0 Type Grid | |
| | | | | connected String Inverter 2.0 Usage Specially used for | |
| | | | | PV system 3.0 Standards 3.1 Efficiency Measurement | |
| | | | | IEC 61683/ Equivalent BIS Std. 3.2 Environmental testing IEC 60068-2 (1,2,14,30) / Equivalent BIS Std. | |
| | | | | 3.3 Interfacing with utility grid IEC 61727 3.4 | |
| | | | | Islanding Prevention Measurement IEC 62116 3.5 Type Test certificate issuing authority (for item no 3.1 | |
| | | | | , 3.2,3.3 and 3.4) NABL/ IEC Accredited Testing | |
| | | | | Laboratories or MNRE approved test centers. 4.0 | |
| | | | | Input (DC) 4.1 PV array connectivity capacity 12 KWp (minimum) 4.2 MPPT Voltage range Compatible | |
| | | | | with the array voltage 4.3 Number of MPPT Channel | |
| | | | | 2 nos (Minimum) 5.0 Output (AC) 5.1 Nominal AC | |
| | | | | Power output 10 KVA 5.2 Number of Grid Ph 3Ø 5.3 Adjustable AC voltage range Programmable as per | |
| | | | | grid condition 360V455V 5.4 Frequency range 47-53 | |
| | | | | Hz 5.5 AC wave form Sine wave 5.6 THD Less than | |
| | | | | 3% 5.7 Switching High frequency transformer / transformer less 6.0 General Electrical data 6.1 | |
| | | | | Efficiency (Maximum) 95 % 6.2 Sleep mode | |
| | | | | consumption Less than 5 W 7.0 Protection 7.1 DC Side 1. Reverse-polarity protection 2. Reverse current | |
| | | | | to PV array protection, over voltage, Under voltage | |
| | | | | protection 3. Over current 7.2 AC side 1. DC inject | |
| | | | | protection to grid less than1% 2. Over voltage and Under voltage 3. Over current 4. Over and under grid | |
| | | | | frequency protection, 5. Anti Islanding protection 7.3 | |
| | | | | Isolation Switch PV array Isolation switch (DC) 7.4 | |
| | | | | Ground fault detection device (RCD) which can detect | |

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| | | | | changes in ground current. Rating shall be as suitable | |
| | | | | for inverter To be provided for transformer less | |
| | | | | inverter. 8.0 Display 8.1 Display type LCD Display | |
| | | | | 8.2 Display parameter 8.2.1 DC Voltage Current | |
| | | | | Power 8.2.2 On grid connected mode Line status Grid | |
| | | | | voltage Grid frequency Export Power Cumulative | |
| | | | | Export Energy 9.0 Interface (Communication | |
| | | | | protocol) Suitable port must be provided in the | |
| | | | | inverter for i) On site upgrade of Software, ii) On site | |
| | | | | dumping data from the memory, iii) Web based remote | |
| | | | | monitoring system 10.0 Web monitoring Matched with | |
| | | | | the monitoring and data logging system 11.0 | |
| | | | | Mechanical Data 11.1 Protection Class IP 65 or | |
| | | | | higher 11.2 Operating ambient temperature 0 0C to | |
| | | | | 600C 11.3 Cooling Natural / forced cooling G. Web | |
| | | | | enable on line data logger and Remote Monitoring | |
| | | | | Unit: Web enable data logging system may be an integrated part of the inverter on a separate unit. The | |
| | | | | integrated part of the inverter or a separate unit. The data logging system includes MPPT wise PV array | |
| | | | | monitoring system also. The data Logger should have | |
| | | | | the provision of recording the data of solar insulation, | |
| | | | | <i>PV cell temperature and ambient temperature and</i> | |
| | | | | associated electrical parameters at different stages to | |
| | | | | study performance of system as well as to study status | |
| | | | | of the system at a particular instant. The data logger | |
| | | | | should have required transducer to monitor and | |
| | | | | record the required system data. The data logger | |
| | | | | should be provided with an insulation sensor and a | |
| | | | | module temperature sensor, ambient temperature | |
| | | | | sensor matched with the system. The data logger shall | |
| | | | | have reliable battery backup and data storage | |
| | | | | capacity (minimum two days data) to record all sorts | |
| | | | | of data simultaneously round the clock. Web based | |
| | | | | Remote Monitoring system must be compatible with | |
| | | | | data logger. The system shall be provided with GSM | |
| | | | | Modem with required SIM card. The modem must be | |
| | | | | compatible to \hat{GSM} and /or GPRS system. The other | |
| | | | | required accessories, hardware and compatible | |
| | | | | software shall have to be provided as an integrated | |

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| No. | | part of the system to monitor the real time data (maximum 20 minutes delay) through web server. The Data logger shall continuously send data to the server. The system can be monitored from anywhere through internet without installing any special software. The server shall not be provided by authority or end user. The price of the remote monitoring system includes all the rental and other costs of the SIM cards, IP address for a period of five (05) years. The Web based monitoring system should have the provision of graphical representation of the data shall include but not limited to the following: Sl. No. Operating Parameter Desired specification 1.0 Input data PV Power PV Energy 2.0 Meteorological data Insolation Module Temperature Ambient Temperature 3.0 Output data 3.1 Inverter Export Power Export energy All data shall be recorded chronologically date wise. The data file should be MS Excel/XML/or any readable form compatible and should have the facility of easy download. H. Inverter Combiner Panel Each of the output of the five (05) Nos Inverters shall be terminated in a Combiner Panel through 32A 415V 4 pole MCB at the in incoming side (Inverter side). The outgoing side (Grid side) shall be connected through a 125A 415V 50 kA TPN MCCB and a 150A 415 V 4 pole Load Break Switch. The set of AC surge suppressor (SPD) shall be connected at the outgoing bus. The Grid Sync Panel shall be outdoor type having double door metal enclosure with a front. The protection level Grid Sync Panel must be IP 54. All the equipments and meter display can only be accessed after opening of front doors. The front door must have locking arrangement. Desired specification of Grid Sink Panel shall include but not limited to the following: SI. No. Parameter Desired Specification 1 In coming MCB (Inverters side) 1.1 Approved make ABB / L & T / Schneider / | Changed Clause / Provision |
| | | Siemens/Havell'sorequivalent make (as per acceptability of authority) 1.2 Number 06 (one) | |

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| | | | | number. 01(one) number against each inverter and | |
| | | | | one number spare. 1.3 Type 4 pole 1.4 Rating 415V, | |
| | | | | 32 Amps, 10 kA 2 Outgoing MCCB (Grid Side) 2.1 | |
| | | | | Approved Make ABB / L&T / Siemens/ Schneider or | |
| | | | | equivalent (as per acceptability of authority) 2.2 Type | |
| | | | | 4 pole 2.3 Rating 125A 415VAC 50kA 3 Surge protection device 3.1 Position Outgoing side (Grid | |
| | | | | side) 3.2 Approved Make OBO Betterman / Dehn / | |
| | | | | <i>Citel /ABB or equivalent make(as per acceptability of</i> | |
| | | | | authority) 3.3 Usage as declare by Manufacturer For | |
| | | | | AC use only 3.4 Protection class Type $B+C$ 3.5 | |
| | | | | Number of set 01 Set 3.6 Rating 600 V 100 kA | |
| | | | | (minimum) 4 AC load break switch 4.1 Make ABB / | |
| | | | | L&T / Siemens/ Schnider /Havell's or equivalent make | |
| | | | | (as per acceptability of authority) 4.2 Rating 150A 415 | |
| 1 | | | | V TPN 4.3 Operating facility Handle with Padlock. 5 | |
| | | | | Indicator Incoming side and outgoing side (R,Y,B) 6 | |
| | | | | Metering Arrangement 6.1 Instantaneous Measuring | |
| | | | | parameter i. Voltage, ii. currentiii. Frequency 6.2 CT/ | |
| | | | | PT Make KAPPA/ SERVO/AE/ KALPA or equivalent | |
| 1 | | | | make (as per acceptability of authority). 6.3 Type of | |
| 1 | | | | meter Electronics 6.4 Display type of meter LED/LCD | |
| | | | | 6.5 Display of the meter From outside without opening | |
| | | | | of front cover 6.6 Meter Make L&T / Siemens/ Schneider/ Secure or equivalent (as per acceptability | |
| | | | | of authority) 7 Bus Bar 7.1 Material Copper 7.2 Type | |
| | | | | TPN 7.3 Rating 200 A 7.4 Position Incoming and Out | |
| | | | | Going Bus 8 Earthing Provision Terminal Blocks will | |
| 1 | | | | have to be provided for Earthing 9 Mechanical 9.1 | |
| | | | | Type Metallic, double door, Outdoor Type 9.2 | |
| | | | | Protection level IP 54 (minimum) 9.3 Housing Floor | |
| 1 | | | | Mounted/ Wall Mounted 9.4 Enclosed Double Door | |
| | | | | Metal Enclosure dust and vermin proof 9.5 Cable | |
| | | | | Entry Top/Bottom (as per approval) 9.6 Glands | |
| | | | | Position At cable entry and exit 9.7 Cooling Natural/ | |
| 1 | | | | forced I. Kiosk (for installation of Array Junction Box, | |
| | | | | Inverter, Grid Sync Panel): (i) All the Array Junction | |
| | | | | Boxes, Inverters and Grid Sync Panel shall be | |
| | | | | installed at the same place and at the rare side of the | |

| PV Array in a suitable location in a Kiosk. (ii) The | |
|--|--|
| kiosk of must be of a suitable design, covered with a door and locking arrangement with good air circulation. The Kiosk must have security arrangement against thef, manhandling etc. Above the kiosk there should have a suitable shade. (iii) The equipment / structure of the equipment fixed on the array structure then suitable insulation must be provided between Array structure and the equipment and equipment and equipment and equipment and equipment and the equipment and the lower edge of the equipment from the developed ground level should be Im. (v) The minimum clearance of the lower edge of the equipment for protection and to prevent mishandling. (vi) The cable laid in the kiosk through cable tray with front cover. (vii)The Klosk structure must have sufficient strength to bare the load of the equipments. J. Grid interfacing LT Panel. The Inverter Combiner Panel shall be terminated to a Grid Interfacing LT Panel. The Inverter Combiner Panel shall be and only be accessed after opening of front doors. The front door must have locking arrangement. Desired specification of each Grid burd of front doors. The fort door must have locking arrangement, Desired specification of each Grid interfacing LT Panel I. The Inverter Combiner Panel shall be terminated to a Grid Interfacing LI Panel. The Inverter Combiner Panel shall be audoor type Poly Carbonate of protection level IP 65. All the equipments and meter display can only be accessed after opening of front door must have locking arrangement. Desired specification of each Grid interfacing LT Panel Shall hour of I acade I. J. Move A. D. J. J. Type 4 pole with handel 1.4 Rating 125A 415VAC 50 kA 2.0 Surge protection device 2.1 Position Outgoing side (Grid side) 2.2 Approved Make OBD Betterman J. Delin / Citel JABB or equivalent make (as per acceptability of authority) 2.3 Usage as declare by Manufacturer For Carbo only LaAP rotection device 2.1 Position Outgoing side (Grid side) 2.2 Approved Make OBD Betterman Jelew Carbonater of set 01 | |

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| | | | | Arrangement 3.1 Instantaneous Measuring parameter i. Voltage, ii. current iii. frequency iv. Power 3.2 CT/ | |
| | | | | PT Make KAPPA/ SERVO/AE/ KALPA or equivalent | |
| | | | | make (as per acceptability of authority). 3.3 Type of | |
| | | | | meter Electronics 3.4 Display type of meter LED/LCD | |
| | | | | 3.5 Display of the meter From outside without opening | |
| | | | | of front cover 3.6 Meter Make L&T / Siemens/ | |
| | | | | Schneider/ Secure or equivalent (as per acceptability of authority) 4.0 Earthing Provision Terminal Blocks | |
| | | | | will have to be provided for Earthing 5.0 Enclosure | |
| | | | | 5.1 Degree of Protection IP65 with UV Protected 5.2 | |
| | | | | Material Polycarbonate. 5.3 Withstanding voltage | |
| | | | | 1000V DC 5.4 Withstanding Temperature 100 0C 5.5 | |
| | | | | Number of Strings entry As may be required 5.6 | |
| | | | | Approved Make Hensel/ Spelsberg /ABB /Ensto oror | |
| | | | | equivalent make (as per acceptability of authority) 5.7 Cable Entry Bottom K. Export Import Energy Meter: | |
| | | | | One number 3 \emptyset 4 wire 415V AC 3X(20A-100A) | |
| | | | | whole current Export Import Energy Meter of L&T / | |
| | | | | Genus or Equivalent per acceptability of authority. The | |
| | | | | Meter to be supplied must be tested from any of the | |
| | | | | NABL/ BIS Accredited Testing-Calibration | |
| | | | | Laboratories. The export Import Energy meter shall | |
| | | | | be installed at the separate housing within an enclosure. The Export Import Energy meter shall be | |
| | | | | installed at a suitable location before Point of | |
| | | | | Common Coupling (PCC) with grid side. L. Cables & | |
| | | | | Wirings : The Specification of wiring material of PV | |
| | | | | Power plant shall include but not limited to the | |
| | | | | following: Sl. No. Item Description A DC Cable 1.1 | |
| | | | | Conductor Tinned annealed stranded flexible copper | |
| | | | | according to IEC 60228 class 5 1.2 Standard PV-1F / 2 PfG 1169/08.2007 / VDE Standard E PV 01:2008-02 | |
| | | | | /Equivalent 1.3 Make LAPP/Top Solar/Nexans/ | |
| | | | | Schneider or equivalent (as per acceptability of | |
| | | | | authority) B AC Cable 2.1 Rated Voltage 1.1kV 2.2 | |
| | | | | Construction 2.2.1 Type Armored or unarmored as per | |
| | | | | requirement 2.2.2 Conductor Stranded flexible copper | |
| | | | | 2.2.3 Insulation PVC Sl No Item Description 2.2.4 | |

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| | | | | Standard IS : 1554 -1 2.3 Make RR Cable/ Polycab/LAPP/ Havell'sor equivalent (as per acceptability of authority) C PVC Conduit tees, bends | |
| | | | | etc (Hard & flexible) 3.0 Standard ASTM D 1785 u PVC 3.1 Ambient Temperature 0 0C to 50 0C 3.2 Type | |
| | | | | UV stabilized, temperatures, Shock proof chemical resistant 3.3 Make Oriplast /Supreme D GI Pipe 4.0 | |
| | | | | Make TATA (i) All the Array Junction Boxes, Inverters Inverter Combiner Panel shall be installed at the rare | |
| | | | | side of the PV Array in suitable locations in Kiosks. Grid Inter facing panel also to be put in a Kiosk (ii) | |
| | | | | The panels must be installed in suitable kiosks protected from theft and mishandling with sheds so | |
| | | | | that rain water and direct sun exposure can be avoided. (iii) The kiosks of must be of a suitable | |
| | | | | design, covered with a door and locking arrangement with good air circulation. The Kiosks must have | |
| | | | | security arrangement against theft, manhandling etc. (iv) The kiosks must have suitable sheds so that rain | |
| | | | | water and direct sun exposure can be avoided. (v) The equipment / structure of the equipment fixed on the array structure then suitable insulation must be | |
| | | | | provided between Array structure and the equipment and equipment structure. (vi) The minimum clearance | |
| | | | | of the lower edge of the equipments from the developed ground level should be 1m. (vii) The kiosk | |
| | | | | of must be of a suitable design covered with a cage with door and locking arrangement for protection and | |
| | | | | to prevent mishandling. (viii) The cable laid in the kiosk through cable tray with front cover. (ix) The | |
| | | | | Kiosk structure must have sufficient strength to bare the load of the equipments. M. System, Equipment, | |
| | | | | Array structure Earthing: i. Equipment grounding (Earthing) shall connect all non-current carrying | |
| | | | | metal receptacles, electrical boxes, appliance frames, chassis and PV panel mounting structures in one long | |
| | | | | run. The grounding wire should not be switched, fused or interrupted. ii. Array Structure must be earthed | |
| | | | | with GI Strip iii. The complete earthing system shall | |

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| | | | | be electrically connected to provide return to earth | |
| | | | | from all equipment independent of mechanical | |
| | | | | connection. iv. The equipment grounding wire shall be | |
| | | | | connected to one grounding electrode per PV power | |
| | | | | plant. v. Test point shall be provided for each earth | |
| | | | | pit. vi. An earth bus and a test point shall be provided inside control room. vii. Earthing system design | |
| | | | | should be as per the standard practices. viii. The | |
| | | | | Earthing pit must be of Chemical gel type with Chem- | |
| | | | | Rod as grounding rod. ix. The Code of Practice | |
| | | | | Earthing shall be IS 3043:1987 x. Necessary provision | |
| | | | | shall be made for bolted isolating joints of each | |
| | | | | earthing pit for periodic checking of earth resistance. | |
| | | | | xi. Minimum six (06) numbers of earth pit. Earthing | |
| | | | | Pit Cover Needs to be provided xii. Earth Grid must | |
| | | | | be made by inter connection of earth pit through GI | |
| | | | | Strip. The size of the GI earth strip must be minimum | |
| | | | | 25X3 mm. The thickness of the galvanization should be | |
| | | | | as per the relevant standard. N. Lightning Protection | |
| | | | | (i) The Code of Practice of lightning protection system | |
| | | | | shall be IS 2309: 1987 (ii) Suitable number of Lightning Protection Unit comprises of GI Air | |
| | | | | Terminal with G.I. pipe of suitable height for | |
| | | | | mounting the terminal & adaptor must be provided to | |
| | | | | cover the complete PV Array yard. (iii) Minimum four | |
| | | | | (04) numbers lightning arrestor must be provided (iv) | |
| | | | | Earth pit used for lightning arrestor shall be separate | |
| | | | | from the system/equipment earthing. (v) Chemical gel | |
| | | | | type of earthing must be used for earth pit. (vi) The | |
| | | | | two pits shall be interconnected at a suitable location | |
| | | | | outside the of the building by a earth bus with test | |
| | | | | jumper. (vii) Lightning arrestors shall be | |
| | | | | interconnected connected and earthed to the lightning | |
| | | | | protection system through the GI strip (viii) The size of | |
| | | | | the GI earth strip used for Lightning Protection system | |
| | | | | must be minimum 50X5 mm. (ix) Minimum five (05) | |
| | | | | numbers of earth pit for lightning arrestor. (x) The number of air terminal must be such so that it can | |
| | | | | cover the total PV array. O. Signage: Safety Signage: | |
| | | | | cover the total I v array. O. Signage. Sajety Signage. | |

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| | | | | Safety Signage must be provided mentioning the level | |
| | | | | and type of voltage and symbols as per IE Rule at | |
| | | | | different position as may be required. P. Provision for Module Cleaning Module Cleaning: Necessary | |
| | | | | arrangement and equipment is to be provided to | |
| | | | | facilitate easy cleaning of the PV Modules Q. Fire | |
| | | | | Buckets and Fire Bucket Holding stand Fire Bucket of | |
| | | | | minimum quantity eight (08) numbers and Fire Bucket | |
| | | | | Stand of minimum quantity two (02) shall be provided | |
| | | | | at Array field. Each fire Bucket holding stand | |
| | | | | (Triangular type) shall have the arrangement to hold | |
| | | | | four (04) numbers of fire buckets. The Fire Bucket | |
| | | | | stand must be as per IS 2546. The stand shall be | |
| | | | | installed at the rare side of the PV Array. The | |
| | | | | minimum technical specification is a follows: Bis | |
| | | | | Specification IS 2546 Fire Bucket Capacity 10 Litres | |
| | | | | Fire Bucket Body Material Galvanized Mild Steel | |
| | | | | Sheet Body Thickness 1 mm R. Spares ,Tools and Measuring Instruments: The minimum number and | |
| | | | | different type of spares, tools and measuring | |
| | | | | instruments must be supplied under this project within | |
| | | | | the contract value. Also any special tools, spares, | |
| | | | | measuring instruments if required as may be shall be | |
| | | | | provided by the contractor. Special Terms and | |
| | | | | Condition A. Field Proven Inverter The propose string | |
| | | | | inverter must be field proven in Indian atmosphere. | |
| | | | | The string inverter of the proposed manufacturer must | |
| | | | | be used in any project of minimum capacity 2X50 | |
| | | | | KWp. Also there must be a good maintenance setup of | |
| | | | | the proposed inverter manufacturer with having | |
| | | | | sufficient numbers of qualified service engineers | |
| | | | | (Degree/Diploma engineers) and well equipped set up | |
| | | | | with instruments, tools and tackles at anywhere in Wast Bangal. The maintenance setup of the proposed | |
| | | | | West Bengal. The maintenance setup of the proposed inverter manufacturer may be inspected by authority, | |
| | | | | if required. B. Equipment and Material Equipment and | |
| | | | | material shall comply with description, rating, type | |
| | | | | and size as detailed in this specification. Equipment | |
| | | | | and materials furnished shall be complete and | |

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| | | | | operative in all respect. All accessories, which are necessary for safe and satisfactory installation and operation of the equipment, shall be furnished. All parts shall be made accurately to standard gauges so as to facilitate replacement and repair. All | |
| | | | | corresponding parts of similar equipment shall be interchangeable. Contractor shall carefully check the available space and the environmental conditions for installation of all equipments available at site and | |
| | | | | shall design the system accordingly. C. Mode of Execution The PV power plant shall be procured as a complete package. The entire work shall have to be executed on turnkey basis. Any minor item(s) not included in the schedule or specification but required | |
| | | | | for completion of the work shall have to be carried out/supplied without any extra cost. While submitting the offer the bidder shall consider cost of those items and may indicate separately as additional deliverable | |
| | | | | items. D. Materials and Workmanship Qualified, experienced people should be deployed to install the PV Power Plant. All materials shall be of the best quality and workmanship capable of satisfactory | |
| | | | | operation under the operating and prevailing climatic conditions of respective. Unless otherwise specified, they shall conform in all respect to the latest edition of the relevant code and standards. The project must be | |
| | | | | supervised by a qualified Structural Engineer/ Engineering firm and Electrical /Electronics Engineer so that the work shall be as per drawing and related IS/IEC Code. The work shall be performed confirming | |
| | | | | safety precaution of all level of worker execute the project. The name and the qualification of the project engineers must be submitted to authority after placement of order. The qualification of the supervising engineers must be minimum degree or | |
| | | | | diploma in respective stream. E. Testing and Inspection Material Inspection will be carried out after submission of all test reports /certificates and after completion of the manufacturing work, against | |

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| | | | | formal intimation from the contractor. The contractor | |
| | | | | shall, give notice of any material being ready for testing and the authority, if desired, shall attend at the | |
| | | | | contractor's premises and may proceed with the | |
| | | | | routine tests. The material shall have to be dispatched | |
| | | | | at site after inspection and clearance from the | |
| | | | | purchaser. The inspection setup and instruments must | |
| | | | | be provided by the contractor within the contract | |
| | | | | value. F. Commissioning After the erection and testing | |
| | | | | of the equipment/works as per above, commissioning | |
| | | | | of the plant and works shall be carried out and here | |
| | | | | the term "Commissioning" shall mean the activities of | |
| | | | | functional testing of the complete system after erection | |
| | | | | and testing, including tuning or adjustment of the | |
| | | | | equipment for optimum performance and | |
| | | | | demonstrating to the Purchaser that the equipment | |
| | | | | performance meets the requirements of the specifications. G. Insurance: Execution Insurance: It | |
| | | | | is desired that the contractor shall arrange for | |
| | | | | insurance coverage for the equipment, accessories, | |
| | | | | materials etc. to be delivered at site up to handing | |
| | | | | over of the complete installation. As such the bidder | |
| | | | | shall include the cost of such insurance in their price | |
| | | | | bid. Insurance after commissioning of PV Power | |
| | | | | Plant: Insurance against Fire, natural calamitiesshall | |
| | | | | be arranged by the Contractor for entireperiod of | |
| | | | | contract (i.e. three years from the date of handover of | |
| | | | | the power plant)." H. Comprehensive Warrantee and | |
| | | | | Maintenance The Contractor must ensure that the | |
| | | | | goods supplied under the contract are new, unused | |
| | | | | and of most recent or current models and incorporate | |
| | | | | all recent improvements in design and materials | |
| | | | | unless provided otherwise in the Contract. The warrantee period of the complete PV Systems will be | |
| | | | | 36 (Thirty six) calendar months from the date of | |
| | | | | handover. The Contractor shall remain liable to | |
| | | | | replace any defective parts that may develop in the | |
| | | | | plant of his own manufacture or that of his sub- | |
| | | | | contractors under the conditions provided for by the | |

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| | | | | contract under proper use, and arising solely from | |
| | | | | faulty design, materials or workmanship, provided | |
| | | | | always that such defective parts as are not, repairable | |
| | | | | at site and are not essential in the meantime to the | |
| | | | | maintenance in commercial use of the plant are | |
| | | | | promptly returned to the contractor's works at the | |
| | | | | expense of the contractor unless otherwise arranged. | |
| | | | | The maintenance includes Routine, Preventive, | |
| | | | | Breakdown & Capital Maintenance the details are as | |
| | | | | follows but not limited: Routine, Preventive, | |
| | | | | Breakdown & Capital Maintenance: Routine and | |
| | | | | preventive maintenance: Routine and preventive | |
| | | | | maintenance shall include cleaning of PV Module on | |
| | | | | regular basis, checks and maintenance activities such | |
| | | | | as tightening of all electrical connections, daily, | |
| | | | | weekly, fortnightly, monthly, quarterly, half yearly, | |
| | | | | and yearly basis which are required to be carried out | |
| | | | | on all the components of the power plant to minimize | |
| | | | | breakdowns and to ensure smooth and trouble free | |
| | | | | running of the power plant. The supplier shall be | |
| | | | | responsible to carry out routine and preventive maintenance and replacement of each and every | |
| | | | | component / equipment of the power plant and he shall | |
| | | | | provide all labour, material, consumables etc. for | |
| | | | | routine and preventive maintenance at his own cost. | |
| | | | | Breakdown maintenance: Breakdown maintenance | |
| | | | | shall mean the maintenance activity including repairs | |
| | | | | and replacement of any component or equipment of | |
| | | | | the power plant which is not covered by routine and | |
| | | | | preventive maintenance and which is required to be | |
| | | | | carried out as a result of sudden failure/breakdown of | |
| | | | | that particular component or equipment while the | |
| | | | | plant is running. The supplier shall be responsible to | |
| | | | | carry out breakdown maintenance of each and every | |
| | | | | component of the power plant and he shall provide the | |
| | | | | required manpower, materials, consumables, | |
| | | | | components or equipment etc. for breakdown | |
| | | | | maintenance at his own cost irrespective of the | |
| | | | | reasons of the breakdown/failure Capital | |

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| | | | | maintenance: Capital Maintenance shall mean the major overhaul of any component or equipment of the | |
| | | | | power plant which is not covered by routine, | |
| | | | | preventive and breakdown maintenance which may | |
| | | | | become necessary on account of excessive wear & | |
| | | | | tear, aging, which needs repair/replacement. The | |
| | | | | capital maintenance of power plant and all civil | |
| | | | | structures shall normally be planned to be carried out | |
| | | | | on an annual basis. For this purpose a joint inspection by the supplier and purchaser shall be carried out of | |
| | | | | all the major components of the power plant, about | |
| | | | | two months in advance of the annual maintenance | |
| | | | | period, in order to ascertain as to which components | |
| | | | | of the power plant require capital maintenance. In this | |
| | | | | regard the decision of the purchaser will be final and | |
| | | | | binding. However, if the condition of any plant and | |
| | | | | component warrants its capital maintenance at any | |
| | | | | other time, a joint inspection of the purchaser and | |
| | | | | supplier shall be carried out immediately on occurrence of such situation and capital maintenance | |
| | | | | shall be carried out by arranging the shutdown of the | |
| | | | | plant/part of the plant, if required, in consultation with | |
| | | | | concerned authorities. The decision of the purchaser | |
| | | | | shall be final and binding. Capital maintenance also | |
| | | | | includes replacement of defective lights fans under the | |
| | | | | project supplied by the contractor. The capital | |
| | | | | maintenance includes painting, of mechanical | |
| | | | | structure, civil structure. The contractor shall under | |
| | | | | take necessary maintenance/troubleshooting work of the Solar PV Power Systems. Down time shall not be | |
| | | | | more than 72 working hours from time of occurrence. | |
| | | | | Adequate measures should be taken for prevention of | |
| | | | | wear and tear of the machines. Solar PV Power | |
| | | | | System is to be designed to operate with a minimum of | |
| | | | | maintenance. The scope of Support Service provides | |
| | | | | preventive maintenance as & when necessary within | |
| | | | | the contract period and break down maintenance in | |
| | | | | the event of malfunctions, which prevent the operation | |
| | | | | of the power system or part of it within the stipulated | |

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| No. | No. | | No. | time period & free replacement of spares required for maintenance. Party will provide the A list of Spare parts & measuring instruments are The contractor will submit warrantee certificates of the work & spare parts and materials at the time of submission of completion report. If any defect is found within the warrantee period, contractor will be liable to repair or replace the same at his own cost and risk, within three (72 hours) days from the date of complaint lodged by the authority or by the user himself. I. End Users Training The Contractor shall arrange for training at site for the end users. The duration of training shall be minimum five days. The contractor shall provide training materials at least seven days before commencement of training programme. The training shall be the part of contract and no extra cost shall be provided for organizing the training programme. J. Handing Over The work shall be taken over by authority upon successful completion of all tasks to be performed at site(s) on equipment supplied, installed, erected, commissioned AND RUN SUCCESSFULLY FOR CONSECUTIVE 60 DAYS AT A STRETCH by the contractor in accordance with provision of this order. During handing over complete project work, the contractor shall submit the followings for considering final payment. i. All As- Built Drawings & Design ii. ii. Detailed Engineering Document with detailed specification, schematic drawing, and test results, manuals for all deliverable major items, Operation, Maintenance & Safety Instruction Manual and other information about the project iii. Certificate issued by the structural design of PV Array. iv. Bill of material v. Inventory of spares at projects site vi. Completion certificate as per | |
| 14 | 360 | Section 5.8 Payment | 44 | prescribed format provided by authority."Sl.Activity/% of% ofMilestoneProjectProject | Sl.Activity/ Milestone% of Project% of Project |

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| | | Schedule | | 44 | On completion of SITC of Solar Power System complete in all respect. | Cost for Annex Building 0.75% | Cost for Hostel Block - | 44 | On completion of SITC of 2(two) nos. External High Mast Light complete in all | Cost for Annex Building 0.75% | Cost for Hostel Block - |
| 15 | 374 | Section – 6 General Conditions of Contract ("GCC") | 4.4 | Contr sole a writin Notifi pay th follow events (a) 1 equiva by the events (i) Ca office (ii) Ca office (ii) Ca office (iii) Guara Sectio Contr the M and a Empla (b) Sa will b upon of the obtain from | First tranche of th alent to 5% of the Co e Employer, upon co s/ activities: onstruction of labour and making arrangem onstruction of the E at the Site Obtaining a Mobu antee from a scheduled on - 7 (Contract Forms act Price, being equiv obilization Advance, submission of such | en by the Emp ed by the Co) days of the Employer ma ce to the Contre- completion of the e Mobilisation ontract Price so mpletion of the ents for water for for for water for for for for for for for for for for | ployer at its pontractor in the issue of ay decide to ractor, in the the following on Advance hall be paid the following ractor's site supply uporary site ance Bank form given in to 5% of the st tranche of the Employer intee to the ion Advance Contractor, oyer, of 15% e Contractor k Guarantee m given in | Contrace Selected days of shall pe- upon co- (i) Cons- and ma- (ii) Con- at the su (iii) Ob- from a (Contrace Mobiliz submiss The M- interest Mobiliz been en 10% of simple i amount Contrace from th subseque unadjuss Mobiliz | the Price may be get Bidder/Contractor is the issue of Notification ty the Mobilisation A mpletion of the follow struction of labour cat king arrangements for struction of the Emplet te. taining a Mobilisation scheduled bank as per ct Forms) for an a ation Advance, in fa ion of such Bank Gua obilisation Advance @ 10% per an ation Advance shall of tement first raised ement of the Mobili tered as a deduction the value of all the neterest @ 10% of the bilisation Advance shall the interim payment @ tent Statement + sim ted Mobilization Advance shall ation Advance shall | iven, if requi n writing with on of Award. A Advance to the ving events :- mp, Contractor r water supply oyers' tempor n Advance Bar r form given i amount equiv vour of the E above shall num. Repays commence from by the Com sation Advan from Interim Statements p total Mobilisa Statements ra dvance shall 10% of the ple interest C vance. Such continue un | ested by the iin 30 (thirty) The Employer e Contractor, or's site office ary site of such ary site of the ary of the ary of the ary site office ary site office ary site of the ary site office ary site of the ary of the ary site office ary site office ary site of the ary site office ary site of the ary site office ary site office ary site of the ary site office ary site office ary site of the ary site office ary site of the ary site office ary site office ary site of the ary site office ary site office ary site office ary site of the ary site office ary site office ary site office ary site office ary site office ary site of the ary site office ary site o |

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| | | | | of the Mobilization Advance, in favour of the Employer and submission of such Bank Guarantee to the Employer. The Mobilisation Advance above shall bear simple interest @ 10% per annum. Repayment of the Mobilisation Advance shall commence from payment of the Statement first raised by the Contractor after disbursement of first tranche of the Mobilisation Advance and shall be entered as a deduction from Interim Payment (@ 10% of the value of all the Statements paid so far + simple interest @ 10% of the total Mobilisation Advance amount). For subsequent Statements, Mobilisation Advance shall be deducted from the Interim Payment @ 10% of the value of such | Recovery of advance at any intermediate stage shall be effected, if necessary, by encashment of part of the Mobilisation Advance Bank Guarantee if the appropriate pro-rata amount of advance is not available from the Works done by the Contractor. If the circumstances are considered reasonable by the Employer, the period mentioned for request by the Contractor in writing for grant of Mobilisation Advance may be extended in the discretion of the Employer. The said Mobilisation Advance Bank Guarantee for advances shall initially be made for the full amount and valid for the Contract period and be kept renewed from time to time to cover the balance amount and likely period of complete recovery." |
| 16 | 384 | Section – 6 General | 4.24 | "The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and | "The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and |

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| | | Conditions of Contract ("GCC") | | to limit damage and nuisance to people and property resulting from pollution, noise and other results of its operations. The Contractor shall maintain ecological balance by preventing deforestation, water pollution and defacing of natural landscape. The Contractor shall so conduct its construction operations as to prevent any avoidable destruction, scarring or defacing of natural surrounding in the vicinity of work. In respect of ecological balance, the Contractor shall observe the following instructions for which no extra payments will be made: (a) Where destruction, scarring, damage or defacing may occur as a result of operations relating to Permanent or Temporary Works, the same shall be repaired, replanted or otherwise corrected at Contractor's expense. All work areas shall be smoothened and graded in a manner to conform to natural appearance of the landscape as directed by the Employer's Representative. (b) All trees and shrubbery, which are not specifically required to be cleared or removed for construction purposes, shall be preserved and shall be protected from any damage that may be caused by Contractor's construction operations and equipment or by their employees' workers. The removal of trees or shrubs will be permitted only after prior approval of the Employer's Representative. Special care shall be exercised where trees or shrubs are exposed to injuries by construction equipment, blasting, excavating, dumping, chemical damage or other operation and the Contractor shall adequately protect such trees by use of protective barriers or other methods approved by the Employer's Representative. Trees shall not be used for anchorage. The Contractor shall be responsible for injuries to trees and shrubs caused by its operations and its employees/ workers. The terms "injury" shall include, without limitation, bruising, scarring, tearing and breaking of roots, trunks or branches. All injured trees and shrubs shall | to limit damage and nuisance to people and property resulting from pollution, noise and other results of its operations. The Contractor shall maintain ecological balance by preventing deforestation, water pollution and defacing of natural landscape. The Contractor shall so conduct its construction operations as to prevent any avoidable destruction, scarring or defacing of natural surrounding in the vicinity of work. In respect of ecological balance, the Contractor shall observe the following instructions for which no extra payments will be made: (a) Where destruction, scarring, damage or defacing may occur as a result of operations relating to Permanent or Temporary Works, the same shall be repaired, replanted or otherwise corrected at Contractor's expense. All work areas shall be smoothened and graded in a manner to conform to natural appearance of the landscape as directed by the Employer's Representative. (b) All trees and shrubbery, which are not specifically required to be cleared or removed for construction purposes, shall be preserved and shall be protected from any damage that may be caused by Contractor's construction operations and equipment or by their employees/ workers. The removal of trees or shrubs will be permitted only after prior approval of the Employer's Representative. Special care shall be exercised where trees or shrubs are exposed to injuries by construction equipment, blasting, excavating, dumping, chemical damage or other operation and the Contractor shall adequately protect such trees by use of protective barriers or other methods approved by the Employer's Representative. Trees shall not be used for anchorage. The Contractor shall be responsible for injuries to trees and shrubs caused by its operations and its employees/ workers. The terms "injury" shall include, without limitation, bruising, scarring, tearing and breaking of roots, trunks or branches. All injured trees and shrubs shall be restored as nearly |

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| | | | | be restored as nearly practicable, without delay, to their original condition at the Contractor's expense. (c) Where trees have to be necessarily cut for progressing Temporary or Permanent Works, the Contractor shall arrange for compensatory afforestation as may be required by Environmental Rules and Regulations. (d) In the conduct of construction activities and operation of equipment, the Contractor shall utilise such practicable methods and devices as are reasonably available to control, prevent and otherwise minimize air/noise pollution. (e) Excessive emission of dust into the atmosphere will not be permitted during manufacture, handling and storage of concrete aggregates/ fly ash / earth/ building materials and the Contractor shall use such methods and equipment as are necessary for collection and disposal or prevention of dust during these operations. The Contractor's method of storing and handling cement shall also include means of eliminating atmospheric discharge of dust. Equipment and vehicles that give objectionable emission of exhaust gases shall not be operated. Burning of materials resulting from cleaning of trees, branches, combustible construction materials and rubbish may be permitted only when atmospheric conditions for burning are considered favourable. (f) Special care must be exercised in ensuring that the labour housed in labour camp within the Site area do not indulge in any activity like drinking alcohol, taking drugs, etc, and other activities that may affect the ecological balance such as cutting of shrubs for fuel, creating open air nuisance etc. The Contractor shall not cut or destroy any tree in the campus to the maximum extent possible. In case any tree is to be cut he shall obtain prior permission from the competent authority under the relevant laws and shall plant equal number of saplings or adhere to the requirements of the prevailing Environmental laws / | practicable, without delay, to their original condition at the Contractor's expense. (c) Where trees have to be necessarily cut for progressing Temporary or Permanent Works, the Contractor shall arrange for compensatory afforestation as may be required by Environmental Rules and Regulations. (d) In the conduct of construction activities and operation of equipment, the Contractor shall utilise such practicable methods and devices as are reasonably available to control, prevent and otherwise minimize air/ noise pollution. (e) Excessive emission of dust into the atmosphere will not be permitted during manufacture, handling and storage of concrete aggregates/fly ash / earth/ building materials and the Contractor shall use such methods and equipment as are necessary for collection and disposal or prevention of dust during these operations. The Contractor's method of storing and handling cement shall also include means of eliminating atmospheric discharge of dust. Equipment and vehicles that give objectionable emission of exhaust gases shall not be operated. Burning of materials resulting from cleaning of trees, branches, combustible construction materials and rubbish may be permitted only when atmospheric conditions for burning are considered favourable. (f) Special care must be exercised in ensuring that the labour housed in labour camp within the Site area do not indulge in any activity like drinking alcohol, taking drugs, etc, and other activities that may affect the ecological balance such as cutting of shrubs for fuel, creating open air nuisance etc. The Contractor shall not cut or destroy any tree in the campus to the maximum extent possible. In case any tree is to be cut he shall obtain prior permission from the competent authority under the relevant laws and shall plant equal number of saplings or adhere to the requirements of the prevailing Environmental laws / terms of the permission, whichever is more stringent. |

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| | | | | terms of the permission, whichever is more stringent. The Employer may assist the Contractor in obtaining such permission, including signing necessary documents. The Contractor shall use all means to minimize the effluents from its construction work and transportation activity or any other activity in the course of the execution of the Works. The Contractor shall take necessary steps for installation of grid connected roof-top solar photovoltaic systems of 50 KW capacity as per "Alo Shree" programme of the Government of West Bengal, in all the buildings forming part of the Project, to make the Project self-sustaining in utilization of power. The Contractor shall also make necessary provisions to ensure that the buildings constructed do fall under the category of Green buildings as per the applicable rules in the State of West Bengal and that the buildings are energy efficient as far as possible." | The Employer may assist the Contractor in obtaining such permission, including signing necessary documents. The Contractor shall use all means to minimize the effluents from its construction work and transportation activity or any other activity in the course of the execution of the Works. The Contractor shall also make necessary provisions to ensure that the buildings constructed do fall under the category of Green buildings as per the applicable rules in the State of West Bengal and that the buildings are energy efficient as far as possible." | | |
| 17 | 412 | Section – 6 General Conditions of Contract ("GCC") | 14.5 | "Except as otherwise stated in Sub-Clause 2.4 [Employer's Claims], the Employer shall pay to the Contractor: (a) the first tranche of Mobilisation Advance within 30 (thirty) days after the date of delivery of possession of the Site subject to Commencement of Works at the Site including setting up of site office etc. both for Contractor and the Employer (b) the amount which is due in respect of each Statement, other than the Final Statement, within 15 (fifteen) working days after receiving the Statement and supporting documents; and (c) the final amount due, within 60 (sixty) working days after receiving the Final Statement and written discharge in accordance with Sub-Clause 14.9 [Application for Final Payment] and Sub-Clause 14.11 [Discharge]. Payment of the amount due in INR shall be made into any bank account, nominated by the Contractor." | "Except as otherwise stated in Sub-Clause 2.4 [Employer's Claims], the Employer shall pay to the Contractor: (a) the Mobilisation Advance within 30 (thirty) days after the date of delivery of possession of the Site subject to Commencement of Works at the Site including setting up of site office etc. both for Contractor and the Employer (b) the amount which is due in respect of each Statement, other than the Final Statement, within 15 (fifteen) working days after receiving the Statement and supporting documents; and (c) the final amount due, within 60 (sixty) working days after receiving the Final Statement and written discharge in accordance with Sub-Clause 14.9 [Application for Final Payment] and Sub-Clause 14.11 [Discharge]. Payment of the amount due in INR shall be made into any bank account, nominated by the Contractor." | | |

General Manager, WBMSCL

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