Annexure - I Amendment - I

NIT No: SECI/C&P/NIT/2017/BDL/5MW-2 Tender for Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 5 MW (AC) Solar PV Power Plant with Indigenous Cells & Modules including 5 Years Plant O&M under Domestic Competitive bidding at Bharat Dynamics Limited, Ibrahimpatnam (Telangana) Page No Clause **Original Version** SI No Section Amondmont Contractor confirms that it has entered into this Contract on the basis of proper examination of the data relating to the Facilities provided by the c and assessed by Contractor confirms that it has entered into this Contract on the basis of proper examination of the data General elating to the Facilities provided by the contractor and assessed by himself at the site location, after himself at the site location, after proper due diligence relating to the Facilities prior to bid submission. The Contractor acknowledges tha any failure to obtain or acquaint itself with all such data and relating to the Hacilities provided by the contractor and assessed by inimisel at the site location, after proper due diligence relating to the Facilities prior to bid submission. The Contractor acknowledges that any failure to obtain or acquaint itself with all such data and information shall not relieve its responsibility Conditions of 30 of 77 3212 acknowledges that Contract (GCC) or properly estimating the difficulty or cost of successfully performing the Scope of Work. information shall not relieve its responsibility for properly estimating he difficulty or cost of successfully performing the Scope of Work ii) Seventy percent (70%) payments shall be paid on Pro rata basis against supply, receipt and acceptance of Materials at site on submission of documents (except Advance Bank Guarantee) i) Seventy percent (70%) payments shall be paid on Pro rata basis against supply, receipt and acceptance of Materials at site on submission of documents (except Advance Bank Guarantee) indicated ander clause i) above, Contractor's detailed invoice & packing list identifying contents of each shipment, indicated under clause i) above. Contractor's detailed invoice & acking list identifying contents of each shipment, evidence of dispatch (GR/ LR copy), Copies of certificates to the effect of Special 2 7 of 10 Conditions of 10 A (ii) payments of State/ Central Goods and Service Tax etc. Certified vidence of dispatch (GR/ LR copy), Manufacturer's/ Contractor's Guarantee certificate of Quality. pp of Insurance policy/Insurance Certificate, Manufacturer's/ ontractor's Guarantee certificate of Quality, submission of the ubmission of the certificate by the Employer's authorized representative that the item(s) have been eceived and MDCC (Material Dispatch Clearance Certificate) issued by Employer's authorized Contract (SCC) certificate by the Employer's authorized representative that the item(s) have been received and MDCC (Material Dispatch epresentative in original. Clearance Certificate) issued by Employer's authorized epresentative in original Scope of Work ii) Air conditioned area (with provision of split A/C unit of adequat and Technical Specifications apacity) for SCADA room min. 12m2) & Conference room (min. area 20m2) (ii) Air conditioned area (with provision of split A/C unit of adequate capacity) for SCADA room (min. 12m2), Conference room (min. area 20m2) & Supervisor cabin and office area (min. area 25m2) 3 86 of 105 38.2.1 (SoW & TS) (iii) Supervisor cabin and office area (min. area 25m2 Scope of Work and Technical SCADA Room, Control cum Office Room, Supervisor Room, and obby-CADA Room, Control cum Office Room, Supervisor Room, and Lobby 4 87 of 105 39 40 mm thick Heavy duty vitrified tile (8mm thick) flooring with 40 mm thick Heavy duty vitrified tile (8mm thick) flooring with matching 100mm high skirting Specifications natching 100m high skirting SoW & TS) Battery Room attery Room -Acid/ Alkali resistant tile flooring and dado 2100 high, Floor and Acid/ Alkali resistant tile flooring and dado 2100mm high, Floor and dado tiles - 20mm and 12 mm thick add tiles - 20mm and 12 mm thick respectively. However, if the batteries are maintenance free then 40 mm thick Heavy duty vitrified tile (8mm thick) flooring with matching 100m high skirting. spectively. However, if the batteries are maintenance free then 40 mm thick Heavy duty vitrified tile 8mm thick) flooring with matching 100mm high skirting. Passage/Corridor-Passage/Corridor-40 mm thick Heavy duty vitrified tile (8mm thick) flooring with 40 mm thick Heavy duty vitrified tile (8mm thick) flooring with matching 100mm high skirting natching 100m high skirting Toilet Toilet 40 mm thick Ceramic tile (8mm thick) flooring and glazed tile (6m 40 mm thick Ceramic tile (8mm thick) flooring and glazed tile (6mm thick) 2100mm height dado nick) 2100 height dade Scope of Worl and Technical The toilet block shall have a provision for installation of Wate 5 90 of 105 44.1.9 antry shall have a provision for installation of Water dispenser Specifications Cooler SoW & TS) All internal trenches shall be of RCC. The min, wall and base slab hickness shall be 100mm for depth \leq 750mm and 150mm for depths > 750mm. The trench shall be designed for lateral load due Scope of Worl All internal trenches shall be of RCC. The min. wall and base slab thickness shall be 100mm for depth ≤ 750mm and 150mm for depths > 750mm. The trench shall be designed for lateral load due to external soi and Technical 92 of 105 6 49.1 Specifications to external soil fill, ground water table at FGL and 50 KN/ Sgm ill, ground water table at FGL and 50 KN/ Sqm surcharge. External trenches if RCC shall be kept min. (SoW & TS) rcharge. External trenches shall be kept min. 100mm above FGL 00 mm above FGL to avoid entry of rain water oid entry of rair Minimum values of PR and CUF of the plant Minimum values of PR and CUF of the plant Scope of Work after netting off the auxiliary consumption after netting off the auxiliary consumption and Technical 7 96 of 105 55.1 Specifications PR : 0.78 PR · 0 77 SoW & TS) The panel shall be metal enclosed, free standing, floor mounted. Scope of Work modular type with compartmentalized construction having degree protection of IP 54 as per IS 2147. All doors and covers shall be The panel shall be metal enclosed, free standing, floor mounted, modular type with compartmentalized construction having degree of protection of IP 2X (Indoor) as per IS/IEC 60529. All doors and covers shall and Technica 8 41 of 405 10.3.1 Specifications provided with neoprene gaskets to prevent entry of vermin and be provided with neoprene gaskets to prevent entry of vermin and dust . (SoW & TS) dust Each PV Module shall be provided a bar code which is embedded Scope of Work and Technical Each PV Module shall be provided a RFID tag which is embedded inside the module lamination and mu be able to withstand harsh environmental conditions. The RFID data base shall contain the following nside the module lamination and must be able to withstand harsh environmental conditions. The bar code data base shall contain the 9 12 of 105 2.3.7 Specifications nformation. RFID scanner and database of all the modules containing the following information shall also following information. Bar code scanner and database of all the . (SoW & TS) e provided nodules containing the following information shall also be provided Scope of Work and Technical Specifications echnical Requirements :- Degree of protection IP 20 (Indoor)/IP 19 of 105 10 5.2 echnical Requirements :- Degree of protection IP 20 (Indoor) 4 (Outdoor) (SoW & TS) e contractor proposes to provide pile foundation fo upport of module mounting structure (MMS); the type, dia. and n case the contractor proposes to provide pile foundation for support of module mounting structure length of pile shall be as per recommendations of Geotechnical (MMS); the type, dia. and length of pile shall be as per recommendations of Geotechnical Investigation Report corresponding to prevalent soil characteristics at site, however the min. dia. and depth of the pile shall be 300mm and 1800mm respectively except when very hard strata/ rock (N>100) is encountered at Scope of Work vestigation Report corresponding to prevalent soil characteristics t site, however the min. dia. and depth of the pile shall be 300 and and Technical Specifications 11 81 of 105 34.3 800mm respectively except when very hard strata/ rock (N>100) is . (SoW & TS) a higher level, the pile shall be extended in to the hard strata minimum 1.5 times the diameter of the pile ncountered at a higher level, the pile shall be extended in to the or shall have total minimum length of 1200 mm. ard strata minimum 1 times the diameter of the pile or shall have otal minimum length of 1800 mm. The Contractor will construct/provide a separate temporary office with Lavatory facility/ arrangement at stief(including office furniture, computer with internet facility and printe which exits) receive a standard the standard of the standard structure of the structure of the standard structure of the standard structure of the standard structure of the structure of the standard structure of the standard structure of the structure ope of Work and Technical 12 59.1.18 New clause Specifications acilities constructed for the purpose of execution of the contract shall be removed after taking necessary . (SoW & TS) ermissions from the Employer/Owner immediately after Operational Acceptance Scope of Worl Degree of protection shall not be less than IP 5X for auxiliary circuit and Technical Only indoor panels shall be provided. Degree of protection shall not be less than IP 5X for auxiliary circuit 13 27 of 88 7.3.8 . However, for remaining compartments it shall not be ompartment. H ess than IP 5X. Specifications ompartment. However, for remaining compartments it shall not be less than IP 4X

SoW & TS

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Tender for Design, Engineering, Supply, Construction, Erection, Testing & Commissioning of 5 MW (AC) Solar PV Power Plant with Indigenous Cells & Modules including 5 Years Plant O&M under Domestic Competitive bidding at Bharat Dynamics Limited, Ibrahimpatnam (Telangana)					
SI. No.	Section	Page No.	Clause	Original Version	Amendment
14	Invitation for Bids (IFB) & Special Conditions of Contract (SCC)	8 of 9 (IFB) & 6 of 10 (SCC)	5 of IFB & 9 of SCC	breach of one will constitute breach of the other (iii) Third Contract: For providing Comprehensive operation & maintenance of the Solar PV plant for 5 (Five) years from the date of commissioning or Operational Acceptance, whichever is later, as detailed in technical specification including supply and storage of all spare parts, consumables, repairs/ replacement of any defective equipment etc	NOA/ LOI/ LOA for LSTK (Lump Sum Turn Key)/ EPC (Engineering, Procurement & Commissioning) jol shall be issued to successful bidder(s). The NOA/ LOI/ LOA for LSTK/ EPC job shall be awarded in following respective parts as mentioned briefly below: - (i) First Contract: FOR destination basis Supply including Transportation for delivery at site and Insurance of all Equipments and materials including mandatory spares and any other supplies specified the Contract Documents & providing all services i.e., including Undading, Storage, Handling at Site, Cit Works, Erection, Installation, Testing and Commissioning including Modaing, Storage, Handling at Site, Cit Documents supplied under the scope of Supply and any other services specified in the Contract Documents. (ii) Second Contract: For providing Comprehensive operation & maintenance of the Solar PV plant for (Five) years from the date of commissioning or Operational Acceptance, whichever is later, as detailed i technical specification including supply and storage of all spare parts, consumables, repairs/ replacement of any defective equipment etc
15	Invitation for Bids (IFB)	8 of 9	Point J of BIS	OFFLINE & ONLINE BID-SUBMISSION DEADLINE, 30/10/2017 up to 1800 HRS	OFFLINE & ONLINE BID-SUBMISSION DEADLINE, 03/11/2017 up to 1800 HRS
16	Invitataion for Bids (IFB)	8 of 9	Point K of BIS	OFFLINE & ONLINE BID OPENING, 31/10/2017, 1100 HRS (IST) onwards	OFFLINE & ONLINE BID OPENING, 06/11/2017, 1100 HRS (IST) onwards
17	Instruction to Bidders (ITB)	12 & 50 of 54	11.II.XIII & 5.2.XIII of the Annexure II of ITB	SOR-1 & SOR-2 mentioning "QUOTED" for all the items of Respective SORs.	Sealed and signed/ digitally signed, Blank copies (WITHOUT PRICES) of SOR-1 & SOR-2 mentioning "QUOTED' for all the items of Respective SORs indicating that bidders have quoted all the items mentioned in the SOR and have not missed any of the items. Bidder should explicitly note that no prices are to be mentioned in any of the SOR here & only needs to write "QUOTED" in words. Bidders mentioning price here will be out rightly rejected & will not be considered for t further tendering process.