

Date: 18 February 2021

Pre-bid Meeting Minutes/ Addendum No. 2

**ITB-PAL-0000123905 - Construction of Solar Energy System for Khan Younis
Waste Water Treatment Plant**

ITB-PAL-0000123905: Construction of Solar Energy System for Khan Younis
Waste Water Treatment Plant

Issue Date: 26 January 2021

Initial Bids Submission Date: 18 February 2021 @ 5:00 AM EST – (12:00 hr - Jerusalem
Time)

Extended Bids Submission Date: 25 February 2021 @ 5:00AM EST – (12:00 hr - Jerusalem
Time)

Dear Bidders,

A pre-bid meeting was organized at UNDP/PAPP Gaza Office on 07 February 2021 @ 10:00hr (Jerusalem Time).

A site visit was conducted to the site of the solar energy system for KY WWTP in Khan Younis area on 07 February 2020 at 13:00hr (Jerusalem Time)

Below are clarifications and answers to the bidders' enquiries raised before, during and after the pre-bid meeting and the site visit.

This "Pre-bid Meeting Minutes" is considered as addendum No. 2 to the ITB-PAL-0000123905, which shall be deemed to form, be read as part of the tender.

1. All bidders shall submit within their bids all documents and evidences required to establishing bidder's eligibility and qualifications as mentioned in the Invitation to Bid (ITB).
2. All bidders shall submit their bids comprising all the documents and related forms as mentioned detailed in the pertinent sections of the ITB.
3. All bidders shall furnish and submit within their bids actual price analysis/ cost breakdown for all items of the Bill of Quantities with details as given in section 4 of the ITB and as requested by UNDP.
4. The contractor shall take into account in his costing importing all construction materials, equipment and goods according to CLA, GRM and any applicable procedures. The contractor shall be fully responsible for coordinating the access of the construction materials, equipment and goods to the Gaza Strip with the Israeli concerned authorities. The Contractor shall be responsible for obtaining the required permits, licenses and approvals from the competent authorities and for accessing the construction materials, equipment and goods into the Gaza Strip and no claim whatsoever will be accepted by UNDP for costs that may be incurred in obtaining the permits, licenses and approvals and in accessing the construction materials, equipment and goods into the Gaza Strip. The contractor shall inform UNDP in-advance about the dates of receiving the construction materials, equipment and goods at Gaza/Rafah crossings to be inspected by the UNDP's team.
5. The contractor shall submit a signed and stamped commitment to preserve the material within the site or factories. In case of any violations or misuse of accessed dual use materials, UNDP without prejudice will terminate the contract and the contractor will be excluded from involvement in UNDP projects in the future.
6. The contractor shall be fully responsible and bear all costs for storing, preserving and protecting the supplied materials inside Israel and Gaza including harbors, factories and on-site. The

- contractor shall be responsible for any damages that may occur to the material in the stores or on-site.
7. If the contractor fails to secure and access the construction materials, equipment and goods into Gaza, UNDP has the right to terminate the contract without bearing any financial implications.
 8. The contractor shall take into account in his costing paying for one fresh engineer, with minimum three years' experience, an amount of USD 1,000 per month, for the time for completion of the works. The engineer will be appointed by the Employer (UNDP) and reporting directly to the UNDP to support managing the materials accessed through the UNDP mechanism.
 9. The contractor shall make available at the commencement date of the works, maintain, repair, and keep in sound, safe running condition one vehicle for the sole use of the Employer (engine capacities not less than 1600CC-model 2018 or higher). The vehicles shall be complete with spare parts, tools and the like. The contractor shall provide all necessary materials including fuel (1,400 NIS /month) and lubrication. The contractor shall keep the vehicle insured during the contract period under a fully comprehensive motor insurance policy issued by a reputable insurance company. Both the policy and the insurer will be subject to the approval of Employer. The vehicles shall be kept permanently at the disposal of the Engineer and the Employer. During periods of maintenance or repair, the contractor shall make an equivalent replacement vehicle available. Upon completion or termination of the contract, the vehicle will remain the property of the contractor.
 10. The Works are tax exempted. VAT shall not appear in the invoices. The bid price under this contract shall include all charges and any other expenses, may be paid by the contractor or their local subcontractors to all official authorities. The contractor may register his company for this project in the State of Palestine either in Gaza or West Bank or both. Local subcontractors will not have a direct contract with UNDP. UNDP will provide the contractor with the VAT exemption certificates for the project issued by the Ministry of Finance for the solar energy system for KY WWTP project. It is the responsibility of the contractor to obtain the donation numbers and to reimburse the VAT and any taxes from the Ministry of Finance and any concerned authorities and no claim whatsoever shall be entertained in respect thereof.
 11. The unit rates/prices of the Bill of Quantities shall include any bank charges incurred due to payments transfer.
 12. The contractor shall put in place a safety and security plan and take all reasonable precautions to maintain the safety and security of its personnel and property, taking into account the security situations in the Gaza Strip and the working area of the sites, and as required by the pertinent sections of the contract.
 13. The contractor shall consider gender equality when recruiting its technical staff.
 14. The contractor shall be aware that the Khan Younis Waste Water Treatment Plant (KY WWTP) is under operation by the Coastal Municipalities Water Utility (CMWU) and Khan Younis Municipality, and he shall make all required coordination for any works inside KY WWTP. He must assure that any works shall not affect by any means, the operation process inside KY WWTP, and the contractor shall take all remedy actions to keep the operation processes inside KY WWTP ongoing. The contractor shall carry out at his expenses all investigations required to figure out the existing buildings, infrastructures, mechanical, electromechanical and electrical equipment and installations, public and private facilities at and along the underground and overhead sites and paths of KY WWTP and the adjacent areas. The contractor shall take all his precautions during the implementation of all works, including excavation for foundations, pipes, manholes, existing buildings, infrastructures, equipment, installations and facilities so that they are not affected. The contractor shall remedy any damages occurred to these existing buildings, infrastructures, equipment, installations and facilities at his own expenses.
 15. Before starting any work, the contractor shall prepare and provide for the Engineer's approval detailed shop drawings for all civil, mechanical and electrical works to be implemented and installed at site.

16. The contractor shall take into account in his costing the backfilling of any excavated trenches, around foundations and manholes by using clean sand.
17. The contractor shall carry out different concrete job mixes for each type of concrete required to be casted for the project to achieve the requirements of the technical specifications. The costs for the tests are deemed to have been included in the unit rates/prices of the Bill of Quantities. If the cube results at 28 days is less than the nominated strength, the relevant casted items shall be removed and re-casted at the expenses of the contractor.
18. The contractor shall carefully collect from the sites any dismantled materials including equipment, machines, mechanical and electrical parts, pipes, fittings, tiles, base coarse and interlock and transfer them to the municipality warehouses, or as instructed by the Engineer, at the contractor's expenses.
19. Surplus excavated materials, debris, sand, sludge, solid waste and any other materials arising from the works shall be evacuated and dumped on agreed disposal sites at any distance far from the construction site within the Gaza Strip and as directed by the Engineer at the expenses of the contractor. The contractor shall coordinate with the concerned authorities to define designated sites for dumping these materials. The contractor is responsible for making any special arrangements and agreeing upon any required fees for the dumping sites with the concerned authorities. The contractor is responsible for transporting all these materials, debris sand, sludge, etc. to the agreed disposal sites using his own machinery.
20. The contractor shall use computer software (civil 3D) for the earthwork and cut-fill calculation to get accurate figures for leveling and design of pavements.
21. The contractor shall submit as built drawings as required in the pertinent sections of the contract. In addition, the contractor shall provide certified GIS survey for all project elements taking into consideration the following:
 - Surveying should be accomplished using accurate GPS receivers or total station.
 - All project elements should have x,y,z coordinates along with attribute information.
 - The attribute information will be identified in coordination with project owner and the Employer.
 - The coordinates should be referenced to the coordinate system adopted by the relevant local authorities.
 - All surveying works should conform to the accuracy standards adopted by the relevant local authorities and UNDP.
 - Two formats of measurements should be submitted: one in AutoCAD format (*.dwg) and another in GIS format (ArcGIS Geodatabase *.gdb).
22. The contractor shall coordinate and make all necessary arrangements with all concerned parties such as municipalities, authorities, ministries, Pal Tel, GEDCO, etc. for the proper and on-time implementation of the works in the project. The contractor shall be fully responsible for performing the works as per the contract and shall abide to local rules and norms at his expenses. UNDP will not bear any responsibility for such arrangements.
23. The contractor shall keep and maintain full and close liaison and cooperation with the consultant who provided the detailed design of the solar energy system for KY WWTP, either local or international consultant, who will continue providing the construction supervision and monitoring services for the solar energy system to be implemented under this ITB.
24. The contractor shall keep and maintain full and close liaison and cooperation with the contractors who implement any of the packages of the solar energy system for KY WWTP, either local or international contractors.
25. The contractor shall take the written approval from the UNDP Engineer before starting the works for each stage in the project. The Engineer has the right to reject all works implemented by the contractor without the Engineer's approval.

26. In section 4. Evaluation Criteria, Financial Standing, **all bidders shall submit within their bids proof of access to lines of credit via an official unconditional bank credit letter** (An Official letter from bidder's bank certifying the actual approved credit facilities ceiling and balances of all active accounts within the bank) for **Liquid assets and/or credit facilities**, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of no less **than US\$ 600,000**.
Any bidder who fails to submit such proof, via an official unconditional bank credit letter within his bid, will be considered ineligible and disqualified.
27. All bidders shall submit within their bids, written power of attorney, authorizing the signatory of the bid to commit the Bidder.
28. The bidders shall submit within their bids, catalogues for PV panels, inverters, cables, LV panels, MV panels, Metal clad, weather station equipment, SCADA components, softwares and transformers .
29. The contractor shall be fully responsible for coordinating the access of the construction materials, equipment and goods to the Gaza Strip with the Israeli concerned authorities as mentioned in item 4 above.
30. The Contractor represents that it is aware of and has considered in its bid price, the local context including the security and local circumstances of the Gaza Strip, including without limitation closures of border crossings between the Gaza Strip and Israel, delays in custom procedures, delays in access for people, supplies and construction materials and equipment into the Gaza Strip, which could affect the progress of Works. The Contractor further represents that it has familiarized itself with these circumstances through the construction and maintenance stages of the works and has taken into account all the consequences that may arise due to these circumstances.
31. The unit prices of all items of the BOQ shall include supplying, manufacturing, shipping, transporting, storing, handling, delivering, delivering to the work site, installing, testing and commissioning all required materials and equipment including all required parts, fittings, connections, bolts, gaskets and accessories required for proper installation of materials and equipment all according to the specifications, drawings, approved shop drawings and the Engineer's instructions. The unit prices shall include dismantling, removing and/or reallocating any other components of the exiting works as instructed by the Engineer for proper execution of the works.
32. The contractor shall arrange for and pay the cost of visas, transport, flights tickets and accommodation of the UNDP's Personnel (or any representatives duly nominated by UNDP) for 2 persons for both sides, for 2 times to inspect, as requested by UNDP and as the situation allows, materials and equipment including the PV panels, inverters, transformers, metal clad and MV panels at all places (outside the State of Palestine and Israel) of manufacturing, storing, testing, packing and delivering facilities. All costs relevant to these inspections are deemed to have been included in the unit rates/prices of the Bill of Quantities. If the Contractor failed to arrange and allow for accomplishing these inspections on time and as requested by UNDP, the due cost for doing such inspections will be deducted from the contractor's final payment.
33. The contractor shall consider in his unit price for item No. 3.2.1- BILL NO.3 - PV PLANT, the cost of implementing steel shed protection for the inverts as per the attached drawing No L-12.
34. The contractor shall consider including in the unit rates/prices of the Bill of Quantities preparing the access roads to the project site for safe access to the project for personnel, machines, vehicles, etc.
35. from the existing wall inside the electrical room to prepare the place for the installation of the new MCC with all needed civil works and additional materials for proper fixing. In addition, the price shall include re-installing all previous components in other locations with all needed new materials and workmanship to complete the works and for proper operation and as per the instructions of the engineer.

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36. Please find attached/annexed to this addendum No.2, the revised final BOQ. The bidder shall consider using this final BOQ for pricing and submission of his bid to this ITB.
37. Please find attached/annexed to this addendum No.2, the detailed drawings L 12, P12, P13, P14 and P15 for additional clarification and consideration by the bidder.
38. Please find attached/annexed to this addendum No.2, the Technical Requirements for Micro Grid + Genset Paralleling for additional clarification and consideration by the bidder.

Below are clarifications and answers to the bidders' enquiries:

No	Enquiries	Answers
1	Please advise, if the bus bar holding capability of item No. 4.1.3 could be changed from 9000 amps to 7000 amps (the maximum capacity can be manufactured) Please advise If the Low voltage single line diagram can be provided.	The rating of busbar for the LV panel of item No. 4.1.3 is changed to 7000 amps. For the LV SLD, please find attached the additional drawing no. P12 for MV SLD- All Components.
2	Please advise if the weight of the lighting pole Item no 2.1.2 could be changed from 90kg to 46kg.	The required weight for the poles is not less 45kg.
3	Please advise if the spiral conduit of the lighting pole Item no 2.1.2 could be changed from 4 inches to 3 inches.	The required spiral conduit diameter is 3 inches.
4	Please clarify how the site cameras will be installed	The cameras will be installed on the external lighting poles
5	Please advise If the two transformers are step-up or step-down.	Transformers are of Dyn11 vector group. Rated at 0.4/22kV
6	Please advise If the steel structure of the PV panels can be fabricated locally	The contractor can fabricate the steel structure anywhere he likes but, the structure must satisfy the specified specifications of hot-dip galvanizing with a minimum thickness of 60 microns for the profiles and the welds. All bolts and nuts used shall be stainless steel.
7	Please clarify how the existing underground fuel tank will be connected	Refer to item No. 4.7, the unit price of the item includes the price of relocating daily tanks and reconnecting them with the existing underground fuel tank (besides the workshop) and the connections between the new tank and the exiting one including all materials, pipes, 0.75 hp fuel pump with its cabling and control, valves, fittings, connections, remedy works and all requirements needed to complete the work.
8	Please clarify if alternative PV panel capacity could be accepted	The contractor must adhere to the specified PV panel nominal power and specifications

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9	Please advise If a combiner boxes are required for connecting DC.	Combiner boxes are not required. And the PV strings will be connected directly to inverters, the contractor shall follow the recommendation by the manufacturer in this regard with no extra cost.
10	Please advise if the specification of the external lighting units could be changed	The specifications of the required external lighting in bill no.2-lighting & medium voltage works, item no. 2.1.1, are changed to LED -6315lm -4000k-CRI70-51W (type DISANO 3383 Como1 - roto-symmetrical MODEL 340553-00 or equivalent).
11	Please provide us with an excel copy of the modified BOQ.	Attached the final modified BOQ
12	Bills of Quantities, Bill No. 4, Section 1, Item 2.1 "Transformer" 1600kVA, step-up 400 /22kV, we kindly ask you to provide us with specifications of the mentioned transformer as it is not included GEDCO's specs that were received as part of amendment No. 1 of the tender.	Transformers are of Dyn11 vector group. Rated at 0.4/22kV
13	Bills of Quantities, Bill No. 2, Item 2.3.4 "Transformer" 1600kVA, 22/0.4 KV Low Losses, we kindly ask you to provide us the usage of this transformer.	Item 2.3.4 at Bill No.2 is the step-up transformer for the Phase 1 PV field.
14	Section 3: Bid Data Sheets, item 22 states that the project duration is Four (4) calendar months from the date of contract signature. As the project is VAT exempted and includes a large quantity of dual use items, the donation number approval process will takes a long period of time thereby affecting the project duration, in addition to the fact that most of MV equipment need at least 90-120 days for manufacturing. Therefore, we kindly ask you to consider increase the project duration up to (6) calendar months.	The duration of the contract is amended to be (5) calendar months from the date of the contract signature.
15	Technical specifications, item 36, SCADA System, page 171 & 172, "The PVMCS shall be off-the-shelf product previously tested and validated, without any needs for additional project-specific engineering or testing". what is meant by PVCMS?	PVCMS stands for "Photovoltaic Control & Monitoring System"
16	Technical Specs, Item 36, page 173, point 4 states "Software, Remote interface software, etc. The SCADA shall be PLC based and shall be provided with two processors (Main processing unit and	PPC is the master controller responsible for integration & controls of PV based on Grid & Genset requirement - The PPC is the term to comply with the protocols & standards required by the PV & generation system - this could be any of

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	memories) one for normal operation and one as hot standby". BOQ item 10.6 only mentions a PPC not PLC. Please explain.	PLCs which are proven & already a predefined/ tested libraries for each type of inverters compliant for sunspec or non-sunspec devices - Hot-standby configuration is not necessary but if any of bidders are quoting with the HSBY configuration would be getting positive additional numbers during assessment
17	If it is the PPC that is required from Meteo Control as in the BOQ, then will this device be enough to provide the required control on all the aspects of the project?	PPC is the master controller responsible for integration & controls of PV based on Grid & Genset requirement - The PPC is the term to comply with the protocols & standards required by the PV & generation system - this could be any of PLC which are proven & already a predefined/ tested libraries for each type of inverters compliant for sunspec or non-sunspec devices -
18	In BOQ item 10.8, where the 3 switches will be distributed in the plant?	Switches shall be placed in the PVCMS's master panel for connection of downstream PV kiosks in star topology. Each Switch have 2Fx ports. Which is enough for 2 PV Kiosks. So three switches are required. Each with 2Fx ports.
19	Do you need the Engineering software for the SCADA system?	SCADA system comprises of Hardware and software layer. Licensing of server, client and HMI softwares must be included.
20	Where the programming cost of SCADA and PLC/PCC shall be added?	Lumpsum to PVCMS section
21	Please provide single line diagram for project data and control layout.	Please find attached the additional drawing no. P12 for MV SLD- All Components.
22	Please provide single line diagram for LV panel stated in BOQ item 1.3 – Bill No. 4, also please advise if the bus bar capability will be 9000 Amp, as the maximum bus bar capability is 7100 Amp.	Please find attached the additional drawing no. P13 for LV synchronization panel. For busbar capacity please refer to answer of Enquiry No .01.
23	Please send more details for synchronization panels in BOQ items 6.1 and 6.2, Bill No. 4.	Please find more details in the attached document for Technical Requirements - Micro Grid + Genset Paralleling
24	Item 6.2, Bill No. 4, synchronization panel for Gensets, Qt. is 3 unit, please confirm.	3 generators shall be considered in the synchronization panel.
25	Item 1.2, Bill No. 2, lighting poles: the stated weight of the pole is 90 Kg, while the standard does not exceed 46 Kg, please advise.	The required weight for the poles is not less 45kg.
26	Bill No. 3, PV Kiosk, the Qt. is 5, please confirm.	Only 1 kiosk shall be priced and considered

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27	Please advise regarding point # 6.1 in the BOQ / Bill (4) Microgrid sheet.	Please find more details in the attached document for Technical Requirements - Micro Grid + Genset Paralleling. The mains controller will be responsible to monitor the GEDCO incomer (Grid) to automatically send a start command to gensets upon failure of grid. And when grid is restored it will close grid incomer breaker and open(stop) genset breaker.
28	Please advise if Earth leakage relay is required in the LV panels for each inverter? And what the sensitivity required for the ELR (300mA / 500mA)?	It's not required. Yet, Inverter's manufacturer recommendation must be followed for the proposed string inverter.
29	Regarding the interface between the PV plant and GEDCO, please advise if there is any requirements available from GEDCO in this regard.	As for the mechanism of connection between GEDCO and the solar power station through M.V metal clad CMMCCC, the specifications are attached from GEDCO, which explain the mechanism of monitoring and calculating the energy.
30	There is a contradiction for Inverter specs as below: a. Page 166: Inverter shall have anti-islanding protection to prevent back-feeding generated power to the grid in the event of a utility outage. It should also include a delayed auto-start on main supply return. b. Page 178: Genset in operation, Once the genset is on Busbar, the PV will start synch – during island mode the PPC will manage min. loading set point on the Genset	No contradiction between the two paragraphs. At page 166 anti-islanding protection is for inverters. At page 178 island mode refers to the operation of the Microgrid in intentionally islanded mode.
31	Item 4.1.2 MV panel, Bill (4) Microgrid, As per BOQ item description its "Metal clad VCB (CTTTC)" while in GEDCO specification its (RMU). Please clarify.	CTTTC, is the configuration of the RMU.
32	Item 4.13 LV panel, Bill (4) Microgrid, according to our panel builder recommendation, the incoming air circuit breakers (1 ACB 3 pole 3200A 50kA withdraw-able + 1 ACB 3 pole 2500A 50kA withdraw-able + 1 ACB 3 pole 1500A 50kA) should be motorized, please advise.	Incoming and Outgoing ACBs must be of motorized type.

33	<p>Bills of Quantities, Bill No. 3, Item 3.1.1, it is mentioned that "DC Cable '4 sq.mm Single Core XLPE/PVC Stranded Copper", in the same item it is mentioned that "This range of low voltage armored cable is often referred to as mains power cable". Please advise if the requested DC cable single core XLPE/PVC is Armored or NOT.</p>	<p>The specifications of PV DC cable as following:</p> <p>PV H1Z2Z2-K cable, which is TUV certified according to IEC 62930 and EN 50618, suitable for both fixed and mobile solar installations (solar farms, rooftop solar installations and floating plants). a highly flexible cable compatible with all major connectors and specially designed for the connection of photovoltaic panels. versatile single-conductor cable is designed to meet the varying needs of the solar industry. Suitable for wet, damp and humid locations.</p> <p>-Electrical performance LOW VOLTAGE 1,5/1,5 1kV· (1,8) kV DC. 1,0/1,0 kV· (U0/U).</p> <p>-Standard EN 50618/ IEC 62930 / UTE C 32-502</p> <p>-Approvals TÜV / RETIE / CE / RoHS</p> <p>-CPR Construction Product Regulation Cca -s1b, d2, a1</p> <p>-Thermal performance Maximum service temperature: 120°C. Maximum short-circuit temperature: 250°C (max. 5 s). Minimum service temperature: -40°C. (fixed and protected installations)</p> <p>-Fire performance Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1. LSHF (Low Smoke Halogen Free) based on UNE-EN 60754-1 and IEC 60754-1. Low smoke emission based on UNE-EN 61034 and IEC 61034: Light transmittance > 60% Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2. Reaction to fire CPR: Cca -s1b, d2, a1, according to EN 50575.</p> <p>Mechanical performance -Minimum bending radius: x5 cable diameter. -Impact resistance: AG2 Medium severity. -Chemical performance Chemical & Oil resistance: Excellent. Grease & mineral oils resistance: Excellent.</p>
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		<p>Ozone resistant based on EN 50618.</p> <p>UV Resistant based on EN 50618.</p> <p>-Water performance</p> <p>Water presence: AD8 submerged.</p> <p>-Estimated Lifetime</p> <p>Estimated lifetime 30 years based on EN 50618.</p> <p>-Other</p> <p>Meter by meter marking.</p> <p>rodent-proof and termite-proof.</p> <p>-Installation conditions</p> <p>Open Air.</p> <p>Buried.</p> <p>In conduit.</p> <p>Applications</p> <p>Solar PV installations</p> <p>-PV H1Z2Z2-K cable design</p> <p>-Conductor</p> <p>Class 5 (flexible) tinned copper, based on EN 60228 and IEC 60228.</p> <p>-Insulation</p> <p>Low smoke halogen Free (LSHF) rubber.</p> <p>-Outer sheath</p> <p>Low smoke halogen Free (LSHF) rubber, red or black colour.</p>
34	Referring to BOQ item 3.1.1 required PV panel 340w but the pv modules modified to higher power now at least 460 wp, so we ask if applicable to submit pv modules power rate higher than BOQ required.	The Contractor must adhere to the specified PV panel nominal power and specifications.
35	referring to BOQ item 4.6 Synchronization control system kindly send to us more details about the devices that will be synchronized and connected to the controller system.	Please find more details in the attached document for Technical Requirements - Micro Grid + Genset Paralleling
36	who will respond to the electrical company coordination and fees.	It is the contractor responsibility to make full coordination with GEDCO and concerned authorities for any direct or indirect aspect related to the project and the contractor must consider in his pricing of the related items the cost of any fees that may arise by GEDCO.
37	Regarding the required team , and based on the requirement in page 26/56 Each of those required engineers to be appointed	The key personnel shall at least meet the requirements and the required proven experience as mentioned in pages 26/56 and 27/56 in the ITB.

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	must meet the written conditions only, bearing in mind that you did not require that those who will be appointed have previously worked specifically on the solar energy system.	
38	<p>Bill No. 4 "Microgrid", sub bill 4.2 "Cables and Conductors", Item No. 4.2.1:</p> <p>12/20 kV NA2XSY, XLPE conductor with XLPE insulation and aluminum circular stranded conductor – AL cable 3NO (1x150/25 mm2).</p> <p>Please provide us with specs of the above item as it is not available in GEDCO's specs.</p>	<p>Please find attached the new modified description of item no. 4.2.1, the cable was changed to 3no(1x240/25mm²) and as per attached GEDCO specifications.</p> <p>The new description of item 4.2.1 in the final BOQ shall replace the previous one.</p>
39	<p>Bill No. 4 "Microgrid", sub bill 4.6 "Synchronization Control System", Item No. 4.6.3 "Battery Charger":</p> <p>Please provide us with the battery's exact location and kindly advise if any new batteries are needed.</p>	<p>Battery charger of 24Vdc,10Amps shall be placed within synchronization panel along with 2Nos. of 12V, 24Ah batteries to give back-up supply to synch control system in case of GEDCO failure or blackout on the busbar</p>

The bidders shall acknowledge receipt of this pre-bid meeting minutes/ Addendum No. 2 by including it, signed and stamped, with their bids.

For your kind attention and reference,

Sincerely Yours,

For
Shehadeh Habash
Head of Procurement Unit

Attachments:

- 1- Annex 1: Revised Final BOQ (PDF , word and Excel Format)
- 2- Annex 2: Technical Requirements Micro Grid + Genset Paralleling
- 3- Annex 3: Drawings (5)