

HALDIA DOCK COMPLEX

KOLKATA PORT TRUST

QUERIES OF DIFFERENT FIRMS IN CONNECTION WITH THE PRE-BID MEETING HELD ON 25.06.2018 AND HDC, KOPT'S CLARIFICATIONS THEREOF.

Tender No. : SDM(P&E)/T/08/2018-2019

E-Tender No.: KoPT/Haldia Dock Complex/P&E Div/8/18-19/ET/146 dated: June 11, 2018

Sl. No.	Reference	Queries of the firms	HDC, KoPT's Clarifications
1.	Page no. 2, Clause no. 2.1.1	Request to accept the Auditor's Report of the bidding firm, certified by Chartered Accountant (CA), for 2014-15, 2015-16 & 2016-17.	Agreed.
2.	Page no. 2, Clause no. 2.1.2	One similar completed work of contract value not less than Rs 4,74,56,615.00 – to allow single work order of cumulative capacity 1 MW where the work executed under the work order shall be cumulative above Rs. 4,74,56,615.00.	The tender conditions will prevail.
		Please confirm if the project would be 1 MW at single location, Roof top / Ground Mounted, On-grid/ Off-grid.	1 MW and/ or above capacity Solar PV Power Plant at single location of Ground Mounted, On-grid/ Off-grid.
3.	Page no. 2, Clause no. 2.1.3	To amend the clause that the bidder's contractor should possess valid electrical contractor license and should be uploaded with the bid.	The successful bidder would have to submit valid Electrical Contractor's License issued by competent authority of State / Central Govt. in line with The Indian Electricity Rules, 1956. If the successful bidder is not having valid Electrical Contractor's License, as mentioned above, the work would have to be executed by them by Electrical Contractor(s) having valid Electrical Contractor's License issued by competent authority of State / Central Govt. in line with The Indian Electricity Rules, 1956.
		Please accept undertaking from the bidders that work will be executed by a person having valid Electrical License.	
4.	Page no. 3, Clause no. 2.2 (f)	Certificate of MSME / Micro & Small Enterprises (MSEs)/ DIC / SSI/ National Small Industries Corporation (NSIC) to get benefit in this regard – Shall Udhog Aadhar Certificate is valid to claim exemption for EMD and Tender Fees?	For exemption of Bid Document Fee and EMD, valid certificate from MSME / Micro & Small Enterprises (MSEs) / DIC / SSI / National Small Industries Corporation (NSIC) or any empowered Central / State Govt. authority is required only.

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5.	Page no. 5, Schedule of Tender (SOT) – Earnest Money Deposit (EMD) {Clause no. 3.5 (iii)}	To provide option for Bank Guarantee also rather than actual cash deposition.	The Bidder may like to deposit the Earnest Money as follows : Rs. 10,00,000.00 (Rupees Ten Lakh) only using Axis Bank Payment Gateway and the balance in the form of an irrevocable and unconditional Bank Guarantee [as per the form (Bidding Form - “VIII”) in Addendum–I], from any Kolkata/ Haldia Branch of a Nationalized/ Scheduled Bank of India.
6.	Page no. 6, Clause no. 3.6	Completion Period - 8 months. To consider 8 months from the date of hand over of site	The tender conditions will prevail. However, land will be handed over to the contractor in time.
7.	Page no. 6, Clause no. 3.10	To consider 10% of the AMC value for 10 years	The tender conditions will prevail.
8.	Page no. 17, Clause no. 5.3.6	Joint Venture/ Consortium- to confirm the eligibility criteria for individual partner.	The lead partner would have at least 51% and other partners 26% each.
9.	Page no. 21, Clause no. 5.7.1	No changes in the tender must be made on submission of query from potential bidders after the pre bid meeting and issuance of the clarification. KoPT can amend the tender however it must not be at the request of potential bidders after pre bid.	The tender conditions will prevail.
10.	Page no. 23, Clause no. 5.13.5	To issue separate orders for supply and service.	A single order would be issued for both supply and services.
11.	Page no. 25, Clause no. 5.17.4	Why the clause?	This is standard clause. However, the tender conditions will prevail.
12.	Page no. 27, Clause no. 5.25	If there is any bidder whose bid during evaluation is found to be not in accordance to the tender clause must be rejected. Why to ask them to with draw terms and conditions which are contradicting with the tender clause. This clause must be removed.	As per tender, conditional offers are not accepted. However, the tender conditions will prevail.
13.	Page no. 30, Clause no. 5.33.1	Accept or reject any bid to be replaced by accept or reject qualified bids / bidders.	Bids means both Techno-Commercial and Price Bids. However, the tender conditions will prevail.

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14.	Page no. 37, Clause no. 2.1.11	Reverse power flow protection: Is it Islanding protection?	Yes, normally it is islanding protection. This relay is used for protection for a generator running in parallel.
15.	Page no. 38, Clause no. 2.7	The guaranteed annual system availability shall not be less than 99%. 99% availability will be confirmed considering 100% Grid availability.	Agreed, 99% availability subject to grid availability.
16.	Page no. 37, Clause no. 2.1.9 And Page no. 39, Clause nos. 3.2.5 & 3.2.6 And Page no. 40, Clause no. 3.2.24	Power Evacuation: At 11 kV or 33 kV? To clarify that 500 Mtr of 11KV cable through under ground and remaining 6.5KM through single circuit transmission line using cement concrete poles .please clarify.	Solar power evacuation is at 11 kV and should be connected to Sub-station No. 3 (i.e. SS-3) at Haldia Township. The cable route plan is shown on the enclosed drawing. The distance between Solar Project site and SS-3 at Haldia Township is around 1,000 Mtrs. This 11 kV grade XLPE insulated HT cable (of suitable size and length) should be provided by the contractor (i.e. supply, delivery, laying, straight through joints, end terminations etc., what so ever required) as per Indian Electricity Rules and relevant Indian Standard Specifications. 11 kV HT Circuit Breaker at SS-3 would be provided by HDC, KoPT but end termination of the cable is under scope of the contractor.
17.	Page no. 39, Clause no. 3.2.10	11kV indoor/ outdoor panels having incoming and outgoing feeders with VCBs, CTs, PTs, Bus bars, cables terminals kits and Bus coupler having Main and transfer Bus - Bus coupler, main and transfer bus application is not required here.	The scope of work of the contractor includes generation of 1 MW Solar Power (converted to AC from DC) and step-up to 11 kV grade for connection to HDC's Sub-station No. 3. The scope above includes supply, installation & commissioning of HT & LT switch gears, converters, transformers etc. including construction of buildings etc. However, the tender conditions will prevail.
18.	Page no. 39, Clause no. 3.2.11	ABT meter: from Existing CT/PT or another CT/PT has to provided by bidder?	Yes. Under Contractor's Scope.
19.	Page no. 39, Clause no. 3.2.22 And Page no. 94, Clause no. 6.48.3	Solar observatory requirements for measuring wind speed and direction. 3.2.22 States Ultrasonic Type Anemometer and 6.48.3 States Rotating Cup Type Anemometer Please clarify what type of Anemometer is required.	Ultrasonic Type Anemometer

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20.	Page no. 40, Clause no. 3.5	To relax the requirement of vehicle.	The tender conditions will prevail.
21.	Page no. 40, Clause no. 3.7.6	Use of charcoal base instead of bitumen	The tender conditions will prevail.
22.	Page no. 41, Clause no. 3.7.12	Refer to this clause is it mandatory to provide rainwater harvesting system? If mandatory, please provide us the details specification.	<p>The contractor would have to provide automatic sprinkling system of water for cleaning of complete solar modules during comprehensive O&M period of 10 years, at least on weekly basis, to improve the efficiency of the modules. The arrangement should be in such a way that water could be re-used for which sump(s) of suitable size(s) may be constructed.</p> <p>Existing small pond(s) at nearby location (to be provided by HDC-KoPT) may be utilized for water harvesting. However, the contractor would have to arrange to collect water from those ponds at their cost.</p>
		To delete the clause of rain harvesting system.	
23.	Page no. 41, Clause no. 3.8	Presumed that the required land belongs to KOPT, necessary documentation to be provided and KoPT to render support to the contractors to avail all required permissions.	If required, HDC, KoPT would provide documents to the contractor, for obtaining necessary statutory approvals from Govt.
24.	Page no. 43, Clause no. 3.26.2	Presumed that the generated solar power which is to be exported and necessary power purchase agreement with the Discoms have been taken care off by KOPT.	Generated power would be for self utilization, for which power purchase agreement with DISCOM is not required.
25.	Page no. 45, Clause no. 3.28.13 (NOTE)	As Solar plant will not generate after the sun sets and also since one security will be there round the clock, hence it is not required to provide any technical manpower after the working hours.	<p>During comprehensive O&M period of 10 years, the plant will have to be manned by the contractor, as per following:-</p> <ul style="list-style-type: none"> • Supervisor (Diploma in Electrical)- 1 (one) Head, • Electrician/ Technician- 2 (two) Heads and • Helper- 2 (two) Heads. <p>If required, to provide more as per requirement.</p>
		Considering only a 1 MW plant, the required manpower seems to be very much on the higher side. To revisit the requirement to decrease it.	
26.	Page no. 48, Clause no. 5	Photovoltaic Modules : The Project shall consist of Mono/	Only Poly- Crystalline Silicon photovoltaic modules as per the specifications with imported cells of

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		poly-crystalline silicon photovoltaic modules as per the specifications given below – to confirm if Modulers will be Indian make with imported cells	minimum thickness of 3.2 mm for 72 cell module.
27.	Page no. 48, Clause no. 5.2	The glass used to make the crystalline silicon modules shall be toughened low iron glass with minimum thickness of 4.0 mm for 72 cell module and 3.2 mm for 60 cell module – Considering the standard market availability to consider 3.2 mm thickness for 72 cells also	
28.	Page no. 48, Clause no. 5.3	To consider 295 mm thickness	The tender conditions will prevail.
29.	Page no. 51, Clause no. 6.1.7	To confirm the galvanization thickness as IS:4759	As per ASTM, as mentioned in the Tender Document or equivalent Indian Standard Specifications.
30.	Page no. 51, Clause no. 6.1.11	Module shall be of bolted type connection	The tender conditions will prevail.
31.	Page no. 53, Clause no. 6.3.3	The inverter supplied shall have minimum of 10% additional DC input Capacity – to confirm if there is any minimum quantity.	The Inverter capacity would be 250 kW each and 275 kW of DC Power.
32.	Page no. 54, Clause no. 6.3.4	At inverter level, the monitoring shall be at zonal level not at string level. Dual String level monitoring shall be provided at 'String Monitoring Unit' level.	Two or more strings.
33.	Page no. 58, Clause no. 6.7.4	Wires with sufficient amp city and parameters shall be designed and used so that maximum voltage-drop at full power from the PV modules to inverter should be less than 1.5% (including diode voltage drop). What would be maximum voltage drop ?? 2 % or 1.5 % ?	Wires/ cables will be designed based on Short Circuit Rating (SCR), Load and Inverter capacity (kWp).
		To consider the voltage drop as 2%.	

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34.	Page no. 58, Clause no. 6.7.3	Cable from Junction Box to Inverter : Al cable XLPE/XLPO To allow cables from array junction box to inverter with XLPE insulation.	XLPE Cable.
35.	Page no. 60, Clause no. 6.8.7	CEIG approval required or not.	CEIG approval is not required.
36.	Page no. 62, Clause no. 6.11.3	RTCC comes with OLTC and preferably with higher rating transformer. So OCTC shall be applicable in the inverter transformer specifications.	Up to 2 MVA Transformer not required.
37.	Page no. 62, Clause no. 6.11.3	The vector group of transformer(s) must be in line with the system requirement and follow the prevailing grid codes at the location of Site- To share the vector group of the existing system.	Would be shared with the Contractor (i.e. the successful bidder)
38.	Page no. 64, Clause no. 6.13	Transformer : Is of ONAN or Dry Type?	Agreed. ONAN Transformer.
39.	Page no. 66, Clause no. 6.14	Auxiliary transformer capacity not provided.	Provide necessary battery back up for 3 (three) hours. Also provide 50 KVA stand by Auxiliary Transformer.
40.	Page no. 77, Clause no. 6.25.1	Differential protection is zonal protection and is applicable for large power system of rated capacity 10 MVA or more as per industry and good engineering practice. To accept the same.	The tender conditions will prevail.
41.	Page no. 83, Clause no. 6.36.1	All ACBs/ VCBs, as applicable, shall be 4 pole- The VCB comes with 3 pole configurations.	Yes. ACBs- 4 Pole configuration and VCBs- 3 Pole configuration.
42.	Page no. 85, Clause no. 6.37.28	Can we consider Aluminium bus bar of maximum current density of 1.25 AMP / sp. mm.	The tender conditions will prevail.
43.	Page no. 86, Clause no. 6.38.1	ABT energy meter shall be provided as approved by state Utility under the metering scheme, to measure the delivered quantum of energy to the grid for sale. HT side ABT energy meter will be provided by bidder or Contractor?	HT side ABT energy meter will be provided by the Contractor to measure power reverse to Grid, if any.

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44.	Page no. 86, Clause no. 6.38.3	<p>Separate metering system has to be provided for L.T. (incoming) and H.T. (outgoing) supply.</p> <p>HT side ABT energy meter will be provided by bidder or Contractor?</p> <p>LT meter can be provided as mentioned in NIT, however the HT meter should be provided by DISCOM. Please confirm</p> <p>As ACDB/LT Panels will have in built meters, so there is no requirement of separate Meters at LT side.</p>	To be provided by the contractor. However, the tender conditions will prevail.
45.	Page no. 90, Clause nos. 6.40.1 & 6.40.3	To allow the battery voltage rating of 220V DC. This voltage rating shall be feeding the emergency lights (220V DC) as well as control voltage required for the switchgears.	To design as per tender conditions. However, the tender conditions will prevail.
46.	Page no. 90, Clause no. 6.41.1	<p>The size of each type of cable selected shall be based on minimum voltage drop; however the maximum drop shall be limited to 2%. Due consideration shall be made for the de-rating of the cables with respect to the laying pattern in buried trenches / on cable trays, while sizing the cables.</p> <p>What would be maximum voltage drop ??</p> <p>2 % or 1.5 % ?</p>	Cable size shall depend on design of inverter capacity. To provide protective pipes of suitable sizes, if required, during laying of the cable at site.
47.	Page no. 91, Clause no. 6.41.9	Cables inside the equipment room, control room shall be placed in galvanised cable tray, however the cable in the switchyard shall be laid underground.	If required, FRP cable trays may be used in the Sub-station premises.
48.	Page no. 91, Clause no. 6.42.1	<p>The power evacuation system must be reliable, redundant and have low maintenance –</p> <p>To confirm if the power evacuation system shall be redundant type.</p>	Provide one more power cable from site to Sub-station no.3
49.	Page no. 99, Clause no. 7.5	To clarify the minimum value of CUF to be considered for 10 years AMC. To consider the GHI correction factor and Grid availability for calculating the CUF.	The tender conditions will prevail.

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50.	Page no. 103, Clause no. 8.8.12	Supervisor room must be fitted with suitably sized HVAC system - to consider Air conditioner in place of HVAC system	Air Conditioning System with multiple compressors of suitable size(s) depending on Room size, humidity, temperature etc. (10% above on existing parameters).
51.	Page no. 106, Clause no. 8.11.1	<p>To confirm either GI Chain Link or RCC Precast or RR Masonry wall as all of them are having their own type of cost impact in consideration.</p> <p>To clarify if the boundary shall be of chain link or RCC pre cast/ RR masonry wall.</p> <p>If chain link fencing is considered, to clarify the following-</p> <p>(a) Specification of GI concertina wire with height.</p> <p>(b) what shall be the total height of the fence.</p>	GI barbed wire fencing with 5 (five) feet high with supporting columns.
52.	Page no. 106, Clause no. 8.12.1	The drains must be constructed with brickwork/ RCC/ RR masonry as suitable for the site conditions- Request to confirm the same.	Brick masonry work.
53.	Page no. 107, Clause no. 9.1	To confirm which of the items will be inspected at Manufacturer's works.	Inspection will be carried out as per approved QAP (Quality Assurance Plan).
54.	Page no. 113, Sheet- 3	Guaranteed particulars to be filled in by the bidder and not by manufacturer.	<p>(i) The successful bidder is to ensure that Guarantee from the manufacturers is as per Clause No. 12 at Page nos. 109 & 110 of the Tender Document and furnish necessary documents accordingly.</p> <p>(ii) Clause No. 12 at Page nos. 109 & 110 of the Tender Document- "Guarantee" instead of "Warranty".</p>
55.	Page no. 129, Clause no. 7.12	<p>The clause talks about changes in the specification after award of work which includes alteration in the price as well.</p> <p>Needs to be clarified.</p>	Please refer to clause no. 7.12 in totality at page no. 129 of the Tender Document. However, the tender conditions will prevail.
56.	Page no. 137, Clause no. 7.27.3	Request KOPT to specify the rent for utilising the land area of land space.	A token lump sum licence fee of Rs. 10.00 (Rupees Ten only) per month or part thereof will be charged during pendency of the contract and extension thereof, if any.

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57.	Page no. 150, Clause no. 7.63.1	On whose account delays caused in the completion of work will be accounted. (suspension of work by engineer)	Please refer to clause no. 7.63.2 at page no. 151 of the Tender Document. However, the tender conditions will prevail.
58.	Page no. 151, Clause no. 7.65	Completion period is 8 months. Does it require more time	The tender conditions will prevail.
59.	Page no. 154, Clause no. 7.71.2	To consider pro-rata payment.	<p>Pro-rata payment not agreed.</p> <p><u>Revised Terms of payment:-</u> (Clause no. 7.71, Terms of Payment, Page no. 173 of Tender Document)</p> <p>Payment to the Successful Bidder will be made against the EPC work (i.e. total sum amount against BoQ Item Sl. No. 1) stage-wise, as indicated below :-</p> <ul style="list-style-type: none"> (i) 10% against approval of layout drawings, schemes, material list for all equipments. (ii) 60% against supply of the materials at site in good condition. (iii) 20% against erection, testing & commissioning of the complete system. (iv) 10% against taking over of the completed work. <p>During comprehensive operation & maintenance period of 10 years, payment would be made on quarterly basis at the end of every quarter for each year of comprehensive operation & maintenance period of 10 years.</p>
60.	Page no. 163, Clause no. 7.87	The notice period needs to be more than 48 hours as we cannot ascertain the actual length of such calamities.	The tender conditions will prevail.
61.	Page no. 169, Clause no. 7.20.1	PBG 10% of entire contract value for a period 10 year, rather than SWL request KOPT to bifurcate into two 10% PBG one for supply and I& C for 5 years + other for 10% PBG on quoted O & M value and this O & M contract to be renewed year on year for 10% on O & M contract value successively .	The tender conditions will prevail.
62.		Is it possible to share the substation SLD along with land contour drawings?	It is under scope of the contractor.

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63.		What is the tentative power cut days in a month?	Availability of power is around 99% during last 3 (three) years.
64.		Please let us know the concerned party for O&M during the defect liability period (if it is client or contractor)?	The Contractor is to carryout O&M during the defect liability period. However, the Guarantee period would be extended based on defect liability period.
65.		The defect liability period is for 10 years whereas the warrantee of the components is upto 5 years. In such a case, can the defect liability period be revised?	The tender conditions will prevail.