



ঢাকা পাওয়ার ডিস্ট্রিবিউশন কোম্পানী লিমিটেড
DHAKA POWER DISTRIBUTION COMPANY LIMITED
(An Enterprise of the Government of the People's Republic of Bangladesh)

Office of the Project Director

Project-2, DPDC.
House No.-47, Road No.-135
Gulshan-1, Dhaka-1212
Telephone: 9880846,
Fax: +085 9880847
E-mail : pdp2@dpdc.org.bd

Memo No-87.112.000.00.15.000.2016. 112

Date : 31/08/2016

Sub : Clarification regarding pre-bid meeting held on 23/07/2016 upon Design, Manufacture, Supply, Installation, Testing & Commissioning of 3 lac Pre-payment meter with related services on Turn-Key basis in 8 Nos. NOCS division in DPDC area under Deferred payment system.

Ref. : DPDC/PD/(PPMS for & 8 NOCS)/2016/588, Date: 26/06/2016.

The following clarification are given against above tender no. raised by different participant in the pre-bid meeting.

1. Hexing Electrical Co. Ltd.

Tender Clause	Amendment Proposal	Remarks	Reply from DPDC
GCC 27.1 Terms of Payment (a) 1.	L/C validity shall be given by 7 years.	2 years for contract implementation (PAC), 5 years for payment period.	L/C validity shall be 7 years.
GCC 27.1 Terms of Payment 1. LC Charges within Bangladesh and outside Bangladesh shall be paid by the supplier.	LC Charges within Bangladesh shall be paid by the purchaser and outside Bangladesh shall be paid by the supplier. If the L/C shall be extended due to purchaser's reason, all the charges shall be paid by the purchaser.	Due to the huge cost for L/C amendment, Purchaser shall bear the responsibility for their own part. More details for L/C shall be provided, since this is the only way for payment.	Please follow tender document.
ITT 63.2 Performance Security	The Performance Security 10% shall not be applicable to contractor. The purchaser shall arrange the payment guarantee to contractor.	Contractor will invest all the cost for whole project, who need the payment guarantee from the utility. Payment guarantee: corporate guarantee endorsed by Central Bank of Bangladesh (Bangladesh Bank)	Please follow tender document.
GCC 28.2 Insurance	The minimum insurance cover shall be 110% (Hundred Ten). The insurance policy would be furnished from Bangladesh any insurance company.	The insurance cost from Bangladesh Sadharan Bima Corporation is too high and the insurance shall be from any Insurance company in Bangladesh.	Please follow tender document.
Hardware/servers for MIC	Additional hardware /servers or upgrade of the existing servers are required for around 30,000 pcs online mother meter.	The detailed design of the hardware structure and additional equipment list will be provided later in individual file. 1) Load Balance 2) Database server 3) Application server Memory from 8G to 32G	The Tenderer are encouraged to visit the existing prepayment system in DPDC. It is a turn-key Project. If any additional hardware / servers or Up-gradation of existing system software etc. are required the tenderer shall mention it with their bid proposal and shall provide those items / services in this project. It will be deemed that the tenderer has included such cost in their offered price.

2. Ideal Electrical Enterprise Limited

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
Sec-3, Clause 29(2) Page-52	For Goods manufactured outside Bangladesh, the supplier shall be entirely responsible for all taxes, duties and other such levies imposed outside Bangladesh.	Contents of the relevant clause 29(2) is not clear as to who will bear the cost for payment of CD, VAT, AIT, ATV and all other Govt. dues inside Bangladesh for import of the goods - whether DPDC or contactor Request: It should be clearly stated intender document that payment of CD,VAT, AIT, AVT and all other Govt. Dues inside Bangladesh for import of the goods shall be paid by DPDC.	As this is a project under deferred payment. The contractor shall bear such cost.
Sec-4, Page-72,Clause GCC 27.1(a)I (ii),	(ii) The whole contract amount will be paid to the contractor in 5(five) years through 10 (ten) equal semiannual installment. No payment will be given before hand. 5(five) years payment period will be counted from the date of issuance of Provisional Acceptance Certificate (PAC).	As per payment terms 1 st installment of Payment will start after issuance of Provisional Acceptance Certificate (PAC).	Please follow tender document
Clause 27.1 (a)(2)	2.Provisional Acceptance Certificate: The purchaser shall issue a Provisional Acceptance Certificate after successful installation, testing, and commissioning of the project and expiration of contract completion date.	Request : PAC shall be issued and 5(five) years payment period will be counted from the date of issue of Bill of Lading by shipper. Alternatively: PAC shall be issued and 5 (five) years payment period will be counted from the date of issue of R&I Report by the store. In case goods are delivered batch by batch, PAC shall be issued also batch by batch.	Please follow tender document
Page-168, clause 7.25	Single phase prepayment meters shall be installed and commissioned according to the minimum guidelines as set out in technical specification. Prior to installation of meters customers shall before warned by delivery of a notice explaining what will happen. Public relations will be responsibility of the utility companies.	Very rightly it is mention under this clause7.25 that "Public Relation will be responsibility of the utility companies". It is practically impossible to install prepayment meter by contractor alone.We therefore suggest: You may go for separated contract for meter installation which is practiced by DESCO, because meter installation is a continuous process and it is endless.	Please follow tender addendum.
	In the tender document there is no indication what type of L/C will be issued in favour of contractor for settlement of payment.	Our opinion is that the whole contract value will be paid through 10(ten)installment in 5 years, so a deferred Local Master LC for the period of 5 years should be issued in favour of contractor /supplier .Otherwise contractors Bank will not open any back to back LC for procuring the meters &, related materials from home and abroad.	Deferred L/C will be issued in favour of contractor for settlement of payment.

3. Shenzhen Inhemeter Company Limited

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
GCC 27.1 (a) 1. (iii) & (iv), page 72	<p>(iii) Invoice for payment of 1st installment is to be submitted to the purchaser after successful completion of contract and issuance of Provisional Acceptance Certificate (PAC). Afterwards, invoice for payment of each of remaining 9(nine) installments shall be submitted at the interval of every 6(six) month.</p> <p>(iv) Payment against each installment due on successful completion of the contract would to be completed within 45 days after submission of invoice to the purchaser.</p>	<p>It is mentioned in tender documents that " Invoice for payment of 1st installment is to be submitted to the purchaser after successful completion of contract and issuance of Provisional Acceptance Certificate (PAC)" and also mentioned in clause (iv) that " payment against each installment due on successful completion of the contract would to be completed within 45 days".</p> <p>Please clarify the first installment payment will be made within 45 days for the date of invoice submission or it will be made on 180th day from the date of issuance of PAC?.</p>	<p>First installment payment will be made within 45 days from the date of invoice submission.</p>
GCC 27.1 (a) 2. , page 72	<p><u>Provisional Acceptance Certificate</u>: The purchaser shall issue a Provisional Acceptance Certificate after successful installation, testing and commissioning of the project and expiration of contract completion date.</p>	<p>It is mentioned in tender document that the PAC will be issued " after successful installation, testing and commissioning of the project and expiration of contract completion date."</p> <p>Please clarify the following points:</p> <ol style="list-style-type: none"> 1. If the contractor completed the project before the contract completion date (e.g. the contract completion period is 24 months and if the contractor complete the work in 12 months time), the PAC will still be issued after 24 months from contract date or PAC will be issued immediately after the work is completed? 2. the work involved in this project is related to 8 NOCS, if the work is going to be implemented NOCS by NOCS, Can PAC for a particular NOCS be issued when that particular NOCS work is completed and mean while, other NOC's work is still in process? 	<ol style="list-style-type: none"> 1. PAC will be issued after successful installation testing and commissioning of the project if the project is completed before expiration of project completion date. 2. Please follow tender document.
GCC 27.1 (a) 1. (page 72	<p>The currency or Currencies in which payment is to be made to the Supplier under this Contract shall be specified in the subject to the following general principle: Payment will be made in the currency or currencies in which the Contract price has been stated in the Supplier's Bid, as well as in other currencies in which the Supplier had indicated in its Bid that it intends to incur expenditures in the performance of the Contract and wishes to be paid. LC Charges within Bangladesh and outside Bangladesh shall be paid by the supplier.</p>	<p>Clarification is required regarding LC as under:</p> <ol style="list-style-type: none"> 1. whether the LC will be opened at the time of signing of contract? 2. what will be validity of LC? 3. Can this LC be a confirmed LC? (related charges on account of Contractor) 4. is it possible to have advance payment under LC if advance payment Bank Guarantee is provided by the Contractor? 5. At the time of submission of negotiation document to LC opening bank and after acceptance of the negotiation document by LC opening Bank, will LC Opening bank issue commitment to pay swift to Beneficiary's bank for all 10 installments (with different mature date at 6 months interval) at one time? 	<ol style="list-style-type: none"> 1. LC will be opened after signing of contract upon submission of requisite documents by the supplier. 2. Validity will be for 7 years. 3. yes 4. No 5. A commitment will be issued in favor of the contractor / contractor's beneficiary bank by the LC opening bank for all 10 installments having different maturity date at 6 month's interval.

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
		Please clarify whether DPDC is able to enter into a borrowing/repayment contract with banks from overseas or from Bangladesh who are ready to finance the project but need DPDC to be the borrower and sign the borrowing/repayment contract directly with them.	No need to clarify, as it is not related with tender document.

4. NARI-BSMT-BJLC

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
GCC 27.1, page no.72	In invitation for international tender, no.8 Budget & source of Funds: suppliers credit on deferred payment system. Refer to clause GCC 27.1, page no.72 in standard tender document, the goods and related services will be purchased under deferred payment contract.	Please confirm that the goods and related services will be purchased under deferred payment contract and not under suppliers credit.	The goods and related services will be purchased under deferred payment contract
GCC 27.1, page no.72	Refer to clause GCC 27.1, page no.72 in standard tender document, LC charges within Bangladesh and outside Bangladesh shall be paid by the supplier.	According to international rules, LC charges within Bangladesh shall be paid by the buyer.	Please follow tender document
GCC 27.1, page no.72	Refer to clause GCC 27.1, page no.72 in standard tender document, 1 (i) advance payment: no advance payment will be given.	According to China Government regulation, for international project, advance payments will be at least 15% of total contract price.	Please follow tender document
		Please confirm that LC opening of the whole contract price will be the precondition of validity of contract. LC will be opened within 30 days after award of contract.	The contractor shall submit requisite document after signing of contract so that LC can be opened within 28 days after award of contract. Contract effective date will be counted from the date of opening of LC.
	In invitation for international tender, no.11 bid submission deadline with date & time 23/08/2016 12:00 pm noon	According to our experience and required time from bank and government's requirements and procedures, the minimum for bid drafting will at least 2 months. So please extend the time of bid submission deadline to date & time 23/09/2016 12:00 pm noon	Bid submission deadline has been extended upto 26/09/2016 time 12 :00 pm. noon.

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
	There are two kinds of Mother-Child Metering system (Option-1 and Option-2) mentioned in the tender document.	A. which options do you prefer to adopt finally? B. If you want to adopt both of the two kinds of system, please clarify the proportions of each one? C. what is your criteria to choose the two kind of system?	Both option will be implemented. Option 2 will be for HT postpaid mother meter. Where large number of meters are child meter or GPRS online 3 Phase meter is not capable to manage all child meters load in that case option 2 will be used.
	It mentions 485 communication mode in the tender document	A. Is it necessary to construct 485 networks cable between Child Meter and Mother Meter? B. Is there any possibility to adopt the communication mode of PLC or Micro-power wireless?	A. Yes B. No
	In the tender document, it mentions that the 3-phase meter would be the Mother Meter	How many 3-phase meters have to work as Mother meter? Please clarify the number of total Mother meter.	All three phase meter may be connected as mother meter.
	In the tender document, it mentions that the contractor need to build UCC and UVC	Is there any construction and civil work when the contractor builds the UCC & UVC?	Follow tender document.
	In the tender document, we find the "Unified prepayment system API" on page 219	A. Is there any existing main station already? B. The contractor needs to ensure the prepayment system to communicate with the existing main station?	a. Yes b. Yes
	There is no specific requirement of the safety system.	A. What is the requirement of the safety system of the whole system? B. What is the encryption protocol?	A. It is not issue for meter manufacture B. AES-128 In GCM Mode, AES-192, AES-256, DES (Please carefully review the API Document)

5. Ningbo Sanxing Medical & Electric Co., Ltd.

Section/Clause/Pag e No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
		Is it possible to provide the detailed encryption method of AES-GCM ? Like example xmi message, secret key.	AES128 in GCM mode is standard algorithm. Please see an example under the table in Example-1
		How to update the secret key of AES-GCM? Should there be any security measures for the secret key transmission?	No need to update key.
		Is it possible to provided the operational manual of RND and SHA-256 (including the operational method of SHA-256, which data can get<sg> by SHA signature?	Don't need to use <sg> portion just make <h:a>0</h:a>
		In the mother meter ? Is it IEC62056-46 or IEC62056-47?	IEC62056-47
		In the mother-Child system, which orders system will send to mother meter ?	System will communication with mother meter through GPRS modem
		Is it OK that there is no encryption or signature during the communication between the system and GPRS module ?	Not possible

Example-1

secret key is all 16 byte zero

```
public static final byte[] ZERO_KEY =
HexDump.toArray("00000000000000000000000000000000");

    byte[] IV = Hex.decode("4858451100000000000000024");

    //byte[] t=hexStr2Bytes("485845110000000000000003");

    byte[] EK = CipherUtil.ZERO_KEY;

    byte[] A = Hex.decode("");

String cipherText = "0AB083C5CE5CBB7C6AA0CA7C93EAE3A5385C0DF733";

    byte[] C = Hex.decode(cipherText);

try {

    System.out.println("Cipher Text: "+cipherText);

    byte[] ptext = decrypt(EK,IV,C,A);

    System.out.println("Plain Text: " + new String(Hex.encode(ptext)));

    } catch (InvalidCipherTextException e) {

    e.printStackTrace();

    }
```

6. Shenzhen Kaifa

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
Section-2: Tender Data Sheet	ITT 14.1(a) I. In case of Turnkey Project the minimum general experience of the Tenderer/Manufacturer in the network building, database oriented software, Hardware & Software integrated and interfaced software making of at least 02 nos. in operation or in supply and installation of pre-payment electric metering system in electricity utility services within last 5 (Five) calendar years.	The Tenderer/Manufacturer shall have experience of network building and database oriented software, hardware & software integrated and interfaced works for at least in one (1) system that is in operation or supplied and installed for the pre-payment electric metering system in any electricity utility services within last 5 (Five) calendar years.	Follow tender document.
Section-2: Tender Data Sheet	ITT 21.1(q) iii. Delivery and completion time shall be 24 months from the date qualified commitment of the letter of credit (L/C).	Total delivery time is two (2) years, during the period quantity shall be divided quarterly.	Follow the tender document
Section-2: Tender Data Sheet	ITT 29.3 The amount of the Tender Security shall be Tk. 80,000,000.00 (Eighty Million) or 1 Million USD.	The tender security may be Tk.24,000,000.00 or US\$ 300,000.00	Follow the tender document
Section-7: Technical Specifications	7.49 Documents Submission: 3. Complete Type Test report with ref. number as per relevant international standard in English along with test results of the offered pre-payment meter from anyone of the following Independent testing laboratory. a) KEMA, Holland. b) UL International New Zealand/Park side Laboratories, New Zealand. c) South African Bureau of Standards (SABS). d) MET Laboratories Inc., USA e) Office of the Gas and Electricity Market, UK /SGS, UK f) European Measuring Instruments Directive (MID) recognized labs. g) CESI, Italy. h) Essef, France i) CPRI, India	The test certificates from China National Test laboratory CNAS (China National Accreditation Service) may be included in the list.	Follow the tender document

7.WAISON

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
GCC 27.1, page no 73		The contract should be divided in 5 equal individual lots. Each lot consists 60,000 prepayment meters with relevant services. After completion of works under each lot, individual PAC will be issued as soon as possible. Payment against each lot will be given in two equal semi-annual installments after issuance of PAC. FAC will be given as soon as the whole contract is finished.	Follow the tender document
GCC 27.1, page no 73		The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 60 days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.	Follow tender document
GCC 27.1, page no 73		If payment is delayed by 1 to 3 months then the interest rate that shall be applied is : prevailing bank rate +1percent	Follow tender document

Section/Clause/Page No.	Description as per Bid document	Request from bidder for Clarification	Reply from DPDC
GCC 27.1, page no 73		If payment delayed for 3 to 6 months, interest rate that shall be applied is : prevailing bank rate +3 percent.	Follow tender document
GCC 27.1, page no 73		If payment is delayed for more than 6 months contractor will get payment from international bank as per payment guaranty.	Follow tender document
		Interest rate will be paid together with payment.	Follow tender document
GCC 27.1, page no 73		There should be a provision of a guarantee of payment from the purchaser to the contractor. It may be a bank guarantee given from any international bank.	Follow tender document
ITT 29.3, page no 39	The amount of the Tender Security shall be Tk. 80,000,000.00 (Eighty Million) or 1 Million USD	Tender security should be cut to 500,000USD. As this tender is deferred payment, tender security will add an additional pressure to tenderer.	Follow the tender document
ITT63.2, page no 42	The amount of Performance Security shall be 10 percent of the Contract Price	Since this is deferred payment, and tenderer bear all the risks. Performance security should be cancelled in order to add no further financial pressure to tenderer.	Follow tender document
GCC 28.2, page 75	The minimum insurance cover shall be 110% (Hundred Ten)	As the contractor get no payment from purchaser in advance and tenderer bear all the risks, this clause should be cancelled.	Follow tender document
GCC 28.2, page 75	1.The minimum insurance cover shall be 110% (Hundred Ten)	As the contractor get no payment from purchaser in advance and tenderer bear all the risks, this clause should be cancelled.	Follow tender document
2.(GCC 33.3, page 78)	The Period of Validity of the warranty shall be 3 years from the date of completion of works including testing & commissioning and handing over to the employer and the place of final destination shall be project site(s).	3 years warranty period of meters should commence as soon as a meter has been installed and started functioning.	Follow the addendum
7.49, page no 210	Complete Type Test report with ref. number as per relevant international standard in English along with test results of the offered pre-payment meter from anyone of the following Independent testing laboratory : b) UL International New Zealand/Park side laboratories, New Zealand	UL International Laboratory has stopped providing any kind of test reports from their laboratory in New-Zealand. All the testing of meters is now conducted in their USA lab. Thus we suggest to change the UL laboratory address in this section.	Follow tender document

A S M Mahmudul Hoque
Project Director
3 lac (8 NOCS) pre-payment meter project
DPDC.

Distribution :

1. Executive Director (Engineer), DPDC.
2. Chief Engineer (Development), DPDC.
3. CCO to Managing Director, DPDC.
4. Mr., DPDC.
5. Executive Engineer, 132/33 KV S/S & Lines, Project-2, DPDC.
6. Deputy Manager (Finance), Project-2, DPDC.
7. Office Copy/Master file.