

OFFICE OF THE CMD (WZ)
M.P. PASCHIM KSHETRA VIDYUT VITARAN CO. LTD.,
GPH COMPOUND, POLOGROUND, INDORE
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CMD/WZ/PUR/06/ADB/4206

Indore dated 11 March- 2010

To,

M/s
All Bidders

Through E-mail & Post

Sub: - ADB II scheme Clarifications - Bid Documents of PPR 28 & 29 .

Ref: - 1. **Bid Identification No.** CMD/WZ/06/PUR/ADB-II/ DTR-Metering /IND/PPR-28.
2. **Bid Identification No.** CMD/WZ/06/PUR/ADB-II/ BIFR/ AGR-DOM/UJN/PPR-29.
3. Query raised by Bidders through Email on dated 03, 04, 06, 09 & 10.03.2010 - (i). **M/s Secure Meter Ltd, (ii) M/s HPL Socomec Pvt Ltd., (iii) M/s Kalpataru Power Transmission Ltd, (iv) M/s Fedders Lloyd Corporation Ltd & (v) M/s Godrej & Boyce Mfg. Co. Ltd & (vi).**

Dear Sirs,

The pre-bid conference was held on 15.02.2010 in which some bidders raised points/ observations and subsequent answers were given to them during the pre-bid conference. There after, the referred bidders raised some points for clarifications, reply of which are provided as under:-

PPR-28				
M/s Secure Meter Ltd.,				
S. No	Section & Clause	Description	OBSERVATION OF BIDDER	CLARIFICATIONS
1.	ITB 11.2 (k) Section 2- Bid Data Sheet Pg2-2	The Type Test of any item shall not be more than three (3) years old, from the date of submission of Bid.	As there is no design changes in the accessories other than the meter we request you to amend the clause as: The Type Test of meter shall not be more than three (3) years old, from the date of submission of Bid. Type test reports for the material other meter shall be within 5 years.	Can not be amended. Please follow as per provision
2.	Section-4 4-36 Item no. 3	Double compartment box made up of high grade fire resistant Poly Phenylene Oxide or equivalent engineering plastic materials for housing meter & LT CTs, earth connection with existing earth mat using hot dip Galvanized strip of 10 mm X 3 mm as earthing conductor, supporting clamps of boxes including hard wares etc as required.	The GTP and drawing provided with tender refers to SMC meter box specification. As SMC is also a type of engineering plastic and hence we request you to please include the word SMC in the price schedule as well so that all the bidders will be on common platform in terms of tender evaluation.	Please follow as per provision
3.	Section-4 4-36 Item no. 4	ISI mark LT Power Aluminium Cables, PVC Insulated & PVC sheathed 1.1 KV grade, armoured stranded conductor cable as per details specifications enclosed between secondary of transformer to LT CT Meter box and up to distribution box of transformer using glands, lugs, cable supports etc as required. i. 3.5 Core x 70 Sq mm ii 3.5 Core x 150 Sq mm iii 3.5 Core x 300 Sq mm	The price schedule talks of the 3 cable sizes as mentioned in the left column while the GTPs and specification for cable talks of the different sizes of 25 and 35 sq.mm only. Hence we request you to please clarify what sizes of cable are required and amend the GTP, specs and Price schedule accordingly.	Please follow activity schedule
4.	Section-4 Bidding forms 4-37 & Section 6 page 6-4 Clause 1.1.3.0 (10 j)	Price Schedule-A (Materials Part) Notes: 2 The bidder will provide "Geographical information system (GIS) for assets management system free of cost for transformers where meter are to be installed.	We request you to re consider the requirement if GIS as it is entirely different task and can be taken up separately. Moreover SLD (Single Line Diagram) showing major landmarks will serve the purpose for monthly energy audit. Hence we request you to eliminate the requirement of GIS from the scope and confirm the same. However if GIS is required then we request you please add the GIS as an item under separate item in the price schedule and provide payment terms for the same. Please amend the price schedule and payments accordingly and confirm.	The bidder has to submit free GIS assets management mapping Electrical Network Elements on the land base map.
5.	Section-6 Clause No. 1.1.3.0 Page 6-3	3. Earth connection of DT Meter box and CT Box with existing earth mat /pit thorough 8 SWG GI wire. Clause 1.1.4.0	The two clauses mentioned are in contradiction. Please clarify whether earthing is to be carried out at each DT. If yes, please clarify	Three Earthing Pits are required.

		Earthing: Earthing work is to be executed on all the substations. Earthing should be provided with GI Earth Pipe and 50X6 mm GS flat forming earth grid and riser. The risers are required for connection with the equipments through GI wire/GS Stay wires/flat as per requirement of engineer in charge who shall approve arrangement of earthing network.	how many earth pit are required at each DT. As the requirement of earthing as per clause 1.1.4.0 is not clear please elaborate the same.	
6.	Section-6 Clause No. 1.1.3.0 Page 6-3	4. Field testing of all Current Transformers with primary injection Kits.	Normally primary injection setup for testing happens to be bulky and not suitable for field use. More over, the high VA supply required for this primary testing may not be available at site. Hence, instead of primary injection kits proper functioning of Current Transformers by bidder should be acceptable. Please amend and confirm the same.	The testing of CTs are to be done at store of the work site.
7.	Section-6 Clause No. 1.1.3.0 Page 6-4	10) Monthly Energy and system data collection from various 33/11KV grid s/s in respect of 11KV feeders, distribution transformer meters, energy auditing, analyzing and furnishing MIS records in soft as well as hard copies as per requirement of owner immediately with effect from commissioning of the feeder wise DT Meters and shall be for two years after total completion & handing over of the entire work under the contract.	1) Reports formats and number of hard copies required are not specified. 2) Since the feeder wise DT Meter commissioning will be completed in different time frame, the requirement of two years is not clear. i.e. Meter reading for two years after completion of entire work under this contract or two years after completion of each DT. Please confirm and amend the clause accordingly. Also as different makes of meters are there in the field we understand that MPPKVVCL will provide the required software for data downloading and meter reading software for different meter manufacturers.	It is post award activities and will be decided later on.
8.	Section-6 Clause No. 1.1.4.0 Page 6-4	Standard requirements/ provisions of earthing shall be as per technical specifications. Connections of earth-grid/earth pit with lightning arrestors and distribution transformer Neutral Transformer Body (at two distinct points), etc. are to be made GI Stay wire as per standard specifications.	Please clarify whether connections of earth grid/ earth pit with lightning arrestors and DT neutral/ Transformer body is included in the scope.	Yes, included
9.	Section-6 Clause No. 1.1.20.0 Page 6-8	DT Meter Boxes Keys: All DT meter boxes are to be pad locked as per specifications. Feeder wise keys details mentioning key numbers and location DT are to be prepared and submitted to the officials in hierarchy. The keys of such locks (3 keys per lock) should be handed over to the following offices.	Since the provision of pad locks is generally provided in metallic box and not in Engg. Plastic box. Therefore, the offered meter boxes will not be provided with Pad Locks & locks, however they will be provided with proper sealing arrangement which can be sealed with the help of polycarbonate seals. Moreover, the details of seal no. put on each meter box can be forwarded to the concerned offices. Kindly amend the clause accordingly.	The pad locks are to be provided as per tender requirement
10.	Section-6 Clause No. 1.5.0 Page 6-20	Period of Guarantee: The contractor shall warrant that the equipment and the material will be new and in accordance with the contract document and free from defects in material and workmanship for a period of twenty four (24) calendar month and in case of meter it is five years (60 calendar month) after completion of the contract, should be commissioning immediately upon the satisfactory completion of the trial operations. If it becomes necessary for the contractor to replace or renew any defective portion of the equipment or site under this clause, the provision of this clause shall apply to the portions of the equipment or site so replaced or renewal until the expiration of twenty four (24) months from the date of such replacement or renewal. The repaired or new parts will be furnished and erected free of cost by the contractor.	The offered meters will have warranty of five years (60 calendar months) after completion of the contract and other equipment will have warranty of 24 months after completion of the contract. NOTE: The above provision shall not be applicable for replaced meter or material. However it will be counted from the date of first installation only.	No amendments is required.
11.	Section-9	Appendix-1 Terms of Payment 2. Plant & Equipment Supplied from within the Employer's Country (Schedule No.2) Installation and other Services (Schedule-3):-	We request you to amend the clause accordingly: Supply Portion: 10% advance on submission of performance B.G for equivalent amount. 80% on receipt of material at area stores. Balance 10% on installation and commissioning feeder wise on monthly pro-rata basis.	No amendments is required.

		Inland Freight & Insurance charges:	<p>Installation & Service Portion: 10% advance on submission of performance B.G for equivalent amount. Balance 90% on installation and commissioning feeder wise on monthly pro-rata basis.</p> <p>Energy Audit, Consumer Indexing & related services: 100% on monthly pro-rata basis.</p>	
12.	Section-9 11.2	The survey and submission of survey maps for installation of energy meter with associated accessories on distribution transformers, earthing of distribution transformer and providing robust fuse unit is to be completed for the Project within sixty (60) days of the Effective Date. Before commencement of installation work, the contractor shall obtain the approval of the Chief Executive Officer of the area for survey maps and proposed locations of new distribution transformers.	We understand that the list of DTs to be metered/ metering units earthed etc. as surveyed is to be provided. Kindly clarify what "survey maps" are to be provided.	The feeders wise SLD maps are required.
VOLUME-II TECHNICAL SPECIFICATION & GTP				
13.	Clause 1.03	<p>Applicable Standards: IS 12346: Specifications for testing equipment for AC Energy Meter IS 13110 : Specification for AC watt-hour meters of classes 0.5</p>	The mentioned standards are not applicable for A.C static watt hour meters. i.e. LT Electronic Trivector Meters. Hence, same shall be deleted.	No amendment is required.
14.	Clause 1.14	<p>Communication: For the output ports available in the meter standard communication interface shall only be adopted. The Meters shall conform to either open protocol standard IEC-62056 duly certified by the CPRI or the meter should be mod bus compliant. In case any proprietary protocol is used in the meter, it will be obligatory on the part of the bidders to furnish complete details of proprietary protocol to the purchasers so that there may not be any difficulty in extraction of data from the meter through the available ports when connected to the communication bus (prepared for some other data communication purpose). Details of protocol used are necessarily required to be intimated/ furnished by the supplier to the purchaser.</p> <p>Meters covered under this tender will be employed for metering at or sub stations or in the premises of HT consumers for tariff application.</p> <p>Meters shall have two number galvanically isolated ports one for collection of data for load survey and other parameters through the meter reading instrument which can also be subsequently connected to a GSM/ CDMA/ PSTN Modem for remote metering and other for remote meter magnetic/ electrical charges through this D-port. A specific confirmation, that, these considerations have been taken care of, shall be made by the tenderer.</p>	<p>The requirement of clause is not clear as it speaks of various requirements. Hence we would like to conclude the requirement of clause and request you to amend the clause suitably which is in line with the objective.</p> <p>The offered meter will have two ports:</p> <ol style="list-style-type: none"> Galvanically isolated optical communication port which can be used for collection of data through the meter reading instrument. The other port will be additional RS232 which can be hooked to Modem for remote reading. Meters will be provided with PACT protocol and API to read our make of meters will be provided instead of protocol. 	No amendment is required.
15.	Clause 1.14.2	Under battery weak condition an indication shall appear on the display or on MRI/ Laptop. The location of lithium battery shall be such that it should be possible to replace the battery.	We can take care of same in offer as the requirement of ultrasonic welded meters. Further field replaceable requirement is not specified.	No amendment is required
16.	Clause 1.15 Display of measured value	<p>Display of Measured Value: Following parameters shall be displayed in Auto Cycle display:</p> <ul style="list-style-type: none"> ▪ Phase wise KW at Peak KVA ▪ Phase wise KVA (Reactive) at Peak KVA ▪ Phase wise Voltage at Peak KVA ▪ Max. Demand (KW & KVA) ▪ Instantaneous line current, Voltage, Power factor (with lead / leg indication) ▪ Maximum demand (KW / KVA) progressive ▪ Time-of-day (T.O.D.) data ▪ Calculation of average power factor 	<p>1. Phase wise KW, KVA, Voltage at Peak KVA will not be provided on display. Instead instantaneous active, reactive and apparent load will be provided. However, these parameters are necessary for Energy audit purpose and will be provided in Load survey as detailed below. Hence we request you to amend this clause along with the load survey clause.</p> <p>2. The requirement of Max. Demand (KW & KVA) and Max. Demand (KW & KVA) progressive is not clear. We understand Max. Demand (KW & KVA) either cumulative or current or histories for previous months. Please clarify the parameters required on</p>	No amendment is required.

			display. 3. The requirement of Time of Day (T.O.D) data is not clear as what all data i.e. parameters are required. 4. Average power factor will be displayed on the meter and not the calculation.	
17.	Clause 1.15 Display of measured value	<p>b) Meter reading at Mid night.</p> <p>The following parameters shall be displayed on demand. in respect of; following anomalies, from the date of installations.</p> <ol style="list-style-type: none"> 1. Potential missing to the meter 2. Current reversal to the meter 3. Failure of current 4. Meter Main cover opening indications as stipulated above OR (ultrasonically welded construction is acceptable.) 5. Un-balance current tamper detection: <p>(i) Cumulative period of failure of potential in each phase shall be displayed in Days/Hours/Minutes from the date of installation.</p> <p>(ii) Cumulative period of failure of current in each phase shall be displayed in days/hours/minutes from the date of installation.</p>	<p>Meter reading at midnight will be stored in the meter memory. However same will not be displayed on meter display.</p> <p>Instead last occurrence and restored tamper will be available with date and time.</p> <p>Ultrasonic welding will be provided.</p> <p>(i) Cumulative period of failure of potential in each phase shall be displayed in Hours from the date of installation.</p> <p>(ii) Cumulative period of failure of current in each phase shall be displayed in hours from the date of installation.</p>	<p>Not Accepted</p> <p>Not Accepted</p>
18.	Clause 1.27	<p>HISTORY & LOAD SURVEY</p> <p>The meter shall be capable of recording active and apparent demand and energies of 15 minutes integration period for at least last 35 days. The meter shall be capable of recording instantaneous values of Current, Voltage and Phase wise at every 15th Minute. The time tagging should have precision of the real time clock.</p>	<p>Considering the requirement we propose the following load survey which will meet the requirement of Energy audit and to provide various MIS reports of DTs including information on earth fault or phase to phase short circuit etc. on LT side of DT side:</p> <p>Load Survey for 35 days, following parameters for one minute average time, when kVA is having the peak value for the same average time for ½ hour.</p> <p>The parameters are:</p> <ol style="list-style-type: none"> a) Individual phase wise kW value (Import only) (3 parameters) <p>Import only means only values which are positive will be shown & values which are having negative values will be treated as zero. If all three phases are in export mode, then value logged in survey will be zero.</p> <ol style="list-style-type: none"> b) Individual phase wise kVar value with lag/lead sign (3 parameters) <p>Note: kVar can have positive as well as negative values as per system conditions.</p> <ol style="list-style-type: none"> c) R, Y, B Individual voltage of phases (3 parameters) d) Power down time during SIP(15/30/60) hour interval (in minutes) (1 parameter) e) Active forwarded energy. It is for as per SIP an hour cumulative value (1 parameter) <p>Note: (a) All logging as per secondary quantities.</p>	No amendment is required
19.	Clause 1.28	<p>MD REGISTRATION</p> <p>Meter reading Protocol shall be provided free of cost, which shall not be complicated, easily understandable by utility officials to introduce compatibility between meters and MRI's of different makes.</p>	<p>We will provide software for meter reading and for CMRI.</p> <p>We will provide API to read our make of meters. Hence, protocol details are not required.</p> <p>Also as per IEEMA guidelines API will serve the purpose.</p> <p>Hence we request you to please amend the</p>	No amendment is required

			clause accordingly and confirm.	
20.	Clause 1.31	<p>SEALING ARRANGEMENT:</p> <p>3 All the sealing screws of the meter cover/meter body shall be provided with good quality six digits numbered lead seal with embossing on both sides, one side with the logo of firm and other side "MPPKVVCL Indore". The six digit numbers shall not be repeated at any time as well as embossing and serial numbers of the lead seal shall be distinctly visible.</p> <p>4 The lead seals shall have three holes so that both end of the sealing wire could be inserted in the third hole for proper locking to avoid opening of the seal in any case by means of tampering.</p>	<p>The clause is in contradiction to sub-clause 7 of clause 1.31 where it is mentioned: "Polycarbonate or acrylic seals or plastic seals or holographic seals or any other superior seals shall be used. Lead seals shall not be used in the new meters."</p> <p>However, polycarbonate seals which are patented and tracking and recording software of same can be provided. Kindly amend the clause accordingly. Also as the seals are patented and hence we request you to please delete the requirement of words "MPPKVVCL Indore".</p>	No amendment is required
21.	Clause 1.32	<p>SAMPLE METER TESTING CLAUSE-</p> <p>Type testing of meter:</p> <p>Verification / testing of material supplied:</p>	<p>We confirm that the offered meters are type tested as per IS 14697 and the reports within 2 years from the date of opening of the bid.</p> <p>Further, lot acceptance after passing of sample meter will result in delay of completion schedule.</p> <p>Also even if the requirement of type test is desired then we request you to please conduct the same on first lot only instead of each lot. Conducting the type test on each lot will unnecessary load the price of the meter.</p> <p>Hence we request you to please amend the clause accordingly and confirm.</p>	No amendment is required
22.	Clause 1.32	<p>Verification/ testing of material supplied</p> <p>vi) The purchaser also reserves the right to get additional samples for all or any of the selected tests at purchaser's cost at any independent test house at any stage of supply, if so considered necessary to ensure that the quality of meters being offered for inspection is same as already got type tested. In case of failure, the guarantee period of the quantity already supplied by the supplier shall be doubled and purchaser reserves the right to cancel the balance quantity.</p>	The clause need to be amended.	No amendment is required
GSM Modems				
23.	Clause: 3.9	The data transfer rate shall be up to 14.4 KBPS or higher.	The baud rate of modem depends upon the meters and GSM network baud rate which will not be more than 9.6 KBPS. Hence we request you to please amend the clause for 9.6 KBPS.	No amendment is required
24.	Clause No.:3.13	Cradle over mounting arrangement must be provided for wall mounting.	Metallic clamp mounting arrangement shall also be acceptable.	No amendment is required.
25.	Clause No.:3.14	Modem should be controlled and configurable through. AT commands.	We request you to please amend the clause as: Modem should be controlled and configurable through AT commands or through software tool.	Yes Amended
26.	Clause No.:3.18	External Antenna Yagi Antenna must have TNC (m) connector, Material: Aluminium, Element: 7-14, dB gain: 14, RG58u with TNC. FME. Connector option Cable length: at least 10 meters or more as per site conditions for connecting to MODEM.	We request you please add the following line: Yagi antenna can also be connected to modem through any other suitable interface arrangement.	Not Accepted
27.	Clause No.:3.19	Cabinet: Aluminum Die Casted casing	Engineering plastic enclosure shall also be acceptable.	Accepted
28.	Clause No.:3.22	Data Interface: EIA-RS232-C	EIA-RS232-D shall also be acceptable.	No amendment is required.
29.	Clause No.:3.23	The Modem should have SMS features so that it can sends SMS to the Main PC at a particular predefined time and sends daily mid night readings of the DTR meter by itself to the Main PC at the control room This features should give daily mid night readings of energy parameters without dialing and all other features such as load survey, energy parameters, tamper details extra can be extracted by dialing the remote end modem.	<p>As the main aim of the AMR system is to have DT monitoring and energy auditing and hence meters can be read via modem on GSM network on monthly schedule basis. This monthly reading will have the whole month load survey as well through which the mid night energy data will be available.</p> <p>Hence we request you to please accept the above system frequency and way of meter data reading as well.</p>	Accepted

			Kindly amend the clause and confirm the same.	
30.	Clause No.:3.24	Input voltage should be of the range of 5.5 V to 12 V DC.	The power supply to modem is AC and modem derives the required DC values internally and hence we request you to please delete the clause.	Accepted
LT CT Current Transformers Cum Meter Box				
31.	Clause No.: 2.01	The front doors shall be having locking facility. The box should be provided with two doors in front and having internal locking arrangement for each portion i.e. for meter & CTs. The latches provided inside the door, which are locked in position by the keys, should be such that the door gets locked just by closing (for opening the door, keys will then be required). 5 lever brass padlocks with three keys of Godrej make should be provided with each LT CT box. Arrangement of sealing the door at Two different places should be made. i.e. meter box portion, CT Box portion.	The meter boxes will be provided with sealing arrangement instead of pad-locking arrangement.	No amendment is required.
32.	Clause No.: 2.02	The box will have two separate compartments for meter and CT having separate doors with locking arrangement. The box will be fixed by kabja welded from inside. The CTs will be mounted on MS angle of size 35 x 35 x 6 mm 2 nos. with saddles for fixing LT CTs. Sealing hook made up of 25 mm x 2 mm MS sheet welded from inside to be provided for meter and CT box separately. MS handles to be provided for the 2 doors. Wire mesh of size 6" x 8" to be provided over the front door in front of poly carbonate transparent sheet (provided in the inner side of the door).	The box will be fixed by kabja (hinge) screwed from inside. Moreover, suitable arrangement for CT mounting will be provided instead of MS angle. Wire mesh is generally not asked/ provided in case of Engineering plastic and SMC boxes. Hence, we request to amend that wire mesh is not mandatory.	No amendment is required.
33.	Clause No.: 2.02 Pg24	Knock out Holes in side of the box: Holes with double compression brass glands suitable for the required size of cables to be provided	Metallic glands are required for metallic box only. As the required box is of SMC type and brass is not an insulating material and hence we request you to please accept the engg plastic glands as well which will serve the required purpose.	Accepted
34.	Clause No. 4.0	Cables lugs shall be tinned copper solder less crimping type conforming to IS: 8309 and 8394 suitable for aluminum conductor.	As the requirement is of Aluminium cable and hence we request you to please accept the aluminium lugs as well. Please amend the clause accordingly.	Accepted
35.	Clause No. 5	Resin Cast LT Current Transformer CT's of all ratios shall be of bar primary type (Ring Type).	CT of all ratios will be of bar primary type (Ring Type) except for CT ratio 50/5A of 0.5 class accuracy as manufacturing of same is not possible and available in market. For 100/5A CT ratio the bore diameter should be 25mm instead of 35mm.	Accepted
36.	Details of hardware required at central station along with its scope are not specified. We understand that AMR has to be done from our in-house home station only and we do not need to install separate Central station in MP.		Kindly confirm the same.	Will be decided after award
37.	Only functional testing will be done at field for entire installed equipments for meter, CT and modem			Not Accepted
38.	We will not supply the AMR software to utility.			Not Accepted
39.	Since our modems will be connected to our meters and hence other make of meters to be deleted from specs.			Not Accepted
40.	We will not supply the AMR software to utility.			Not Accepted
M/s HPL Socomec Pvt Ltd.,				
41.	We require clarification with respect to CMRI specification- Clause 6.0 under "General Technical Requirement : Clause (iv) have a character size of maximum 4 mm only as against your specification of 5 mm characters size.. Kindly clarify.		Display, A4 lines X20 Characters display, can have a character size of maximum 4 mm only as against your specification of 5 mm characters size.. Kindly clarify.	4 mm can be Accepted
42.	Clause 6.0 under "Communication Protocol and Software"- (C) Special requirement clause (d), It is mentioned that the CMRI shall have facility to display vector diagram. This can not be achieved in 4 lines X 20 character display. The display should be a graphical display of 192X128 pixels. Kindly clarify.		CMRI shall have facility to display vector diagram. The display should be a graphical display of 192X128 pixels. Kindly clarify.	Accepted as per your design
PPR-29				
M/s Kalpataru Power Transmission Ltd,				
Following TS & Drg are not found in Tender Document				
43.	Technical Specification for 110 V, 5A, KWH static trivector meter- 11 KV bay at existing 33/11 KV S/s with VCB & Metering Equipment on PCC Pole.		Activity schedule No. 5-A (Material Part) –	Will be decided after award
44.	Technical Specification for 35 sq mm PVC Insulated, 1100 Volts Including 3 % sag-Activity Schedule No. 6-A (Material Part) – LT XLPE/PVC cable with maximum span for 30 meters.		grade 4 Core, Al. Conductor Armoured Cable line on PCC supports using 4 Core Armoured	Will be decided after award
45.	Drawing for suspension and dead and tension clamp – activity Schedule No. 6-A (Material Part) – LT line on PCC supports using 4 Core Armoured XLPE/PVC cable with maximum span for 30 meters.			Will be decided after award
M/s Fedders Lloyd Corporation Ltd.,				
46.	In tender document wherein the details of 3.5Cx70 sq. mm. and 4Cx150 sq. mm. cables are given, but as per			Follow activity

	the requirement of cables in price schedule, Schedules 6A, Sr. No. (6.1) V Indicates 4Cx35 sq. mm.	schedule. Will be decided after award
47.	As per BOQ the size required for Power Cable PVC Insulated, 1100 Volts 4 Core is 35 Sq. mm. but in the TS in Vol-II the specification is for 70 Sq. mm. and 150 Sq. mm.	It is self explanatory that the work is to be executed as per activity schedule for which rates are called.
M/s Godrej & Boyce Mfg. Co. Ltd.,		
48.	We seek clarifications regarding taxation, payment terms and other related issues which are essentially required to prepare our bid with most complete pricing.	All the provisions has already been made in the bid document .

Superintending Engineer (Pur)

Copy to –

1. M/s Fedders Lloyd Corporation Ltd.,159, Okhla Industrial Estate, Phase – III, New Delhi – 110020, Fax No. 011-41609909 Email anurag.grover@fedderslloyd.com
2. M/s Kalpataru Power Transmission Ltd., 101, Part-III, G.I.D.C. Estate, Sector-28, Gandhinagar – 382028, Email – kptl@kalpatarupower.com, Fax No. 079-3211951 / 52/60 / 61/66/68/71.
3. M/s Blue Star Ltd., Block-2A, DLF Corporate Park, DLF Qutab Enclave, Phase-III, M.G. Road, Gurgaon Haryana- 122002, Fax No. 0124-4094007/4, E-mail saurabhkalra@bluestarindia.com.
4. M/s HPL-Socomec Pvt. Ltd.,133, Pace City-I Sector 37,Gurgaon, 122001, Fax 0124-2371018, Email hspl@hplindia.com, hpl@hplindia.com
5. M/s. Sterling & Wilson. Ltd., Kasturi Sanghavi Estate, Govandi Station Road, Govandi East, Mumbai. – 400088, E-mail - mumbai@sterlingwilson.com, Fax – 022-25485331.
6. M/s Bajaj Electricals Ltd., 15/17, Sant Savta Marg, Reay Road, Mumbai – 400010 Email nagrajmilind@bajajelectricals.com, nileshv@bajajelectricals.com, Fax No. 022-23756471.
7. M/s Secure Meters, PO. Box 13, Pratap Nagar Industrial Area, Uaipur-313003 Fax 0294-2492310, Email mktg@securemeters.com, kamlendu.patnaik@securemeters.com
8. M/s KMG ATOZ Systems Pvt. Ltd., A to Z House, C 49, Sector-81, Noida – 201305 , Email:- atoz@atoz.co.in , Fax No. 0120-4207921.
9. M/s Omne Agate Systems Pvt. Limited, II Floor, Murugesu Naicker Complex 99, Greams Road ,Chennai-600 006 ,Fax 044-28294555, Emailcontact@omneagate.com
10. M/s Coramandel infrastructure Pvt. Ltd.8-2-348/2, Beside Pizza Corner, Road No. 3,Banjara Hills,Hyderabad-34, Fax- 040-66245869, Website : WWW. Coramandelinfra.com
11. M/s UB Engg, A-83, DDA Sheds, Okhla Industries Area, Phase-II, NewDelhi-110020 Fax 011-40597713, Email delhioff@ubengg.in
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13. M/s East India Udyog Ltd., 145, GT Road, Sahibabad, Ghaziabad – 201005, Email – eiulgbd@rediffmail.com, eiulgbd@vsnl.com,
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15. M/s Godrej & Boyce Mfg. Co. Ltd., Plot 01, Pirojshanagar, Vikhroli (W), Mumbai-400079, Ph. No. 022-679621, Fax 022- 67961545, Email dsridhar@godrej.com

Superintending Engineer (Pur)