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NO.JPD/SE/MM/SPO-IV/TN-2355/D. 2401

DATED: 20/09-2016

CORRIGENDUM No. 3**TN-2355**

(TENDER ENQUIRY FOR PURCHASE OF SINGLE PHASE STATIC ENERGY METERS WITH METER BOX HAVING DLMS PROTOCOL WITH ADDL. PORT ON LPRF TECHNOLOGY)

The Addendum/Corrigendum in the above technical specification is issued as under:-

Technical Specification (Section-III)

Following clauses are hereby amended to read as under:-

Sr. No.	Spec. clause No.	Particular/ existing clause.	To be read as under:-
1	Section III, Vol A Cl. No 3.13	IS: 15959 (DLMS)	Point no 13 of Clause no 3: is hereby amended to read as under: "Data Exchange for Electricity Meter Reading, Tariff And Load Control Companion Spec having all amendment (DLMS requirement is applicable only to optical port)"
2.	Section III, Vol A Cl. No 7.5 A	Bullet No. 9 under the heading "Readings to be downloading through optical port: "The snap shot of each event with date and time of minimum 40 events (Either occurrence or restoration considered an event)"	Bullet No. 9 under the heading "Readings to be downloading through optical port:, is hereby amended to read as under:- "The snap shot of total events with date and time of minimum 40 events (Either occurrence or restoration considered as an event) except cover open tamper which is non roll over tamper for following tamper conditions: i) The tamper data as per Cl. 7.6 (e),(h)& (i) of this specification ii) Neutral missing (Single wire condition) as per cl no.7.6(f)
3.	Section III, Vol A Cl. No 7.5 B. vii	The communication software must be capable to transfer the billing data and meter Sr No. required for automatic spot billing using any standard LPRF module enabled spot billing machine (SBM), within 60 seconds, to automatically generate the energy consumption bills at consumer's premises without any human intervention after the data is	This clause is hereby amended to read as: "The communication software must be capable to transfer the billing data and meter Sr No. required for automatic spot billing using any standard LPRF module enabled spot billing machine (SBM), within 60 seconds, to automatically generate the energy consumption bills at consumer's premises without any human intervention. The meter manufacturer should provide the protocol and other information to decipher the transmitted billing data and meter Sr No. for the spot billing purpose through SBM. The data communication with the meter shall be encrypted so that there is no possibility of tampering

		collected from CMRI. The CMRI provided by meter manufacturer should continuously transmit the data until an acknowledgement is received from the SBM. The meter manufacturer should provide the protocol and other information to decipher the transmitted billing data and meter Sr No. for the spot billing purpose through SBM. The data communication with the meter shall be encrypted so that there is no possibility of tampering with the downloaded data.	with the downloaded data."
4.	Section III, Vol A Cl. No 7.5		A foot note is hereby added as under: "TOD are not required for single phase meters."
5.	Section III, Vol A Cl. No 7.6 f	When the neutral from both incoming & outgoing side are disconnected and the load is taken through earth, the meter should record energy as per rated voltage, rated frequency and 0.866 Power Factor (Lag), in proportion to the current drawn with accuracy of meter within $\pm 3\%$. The test will be conducted through pulse output without use of push button. Under such condition, the energy recording should start at load current minimum 10% of Ib. Power CT or battery shall be used for this purpose.	This clause is hereby amended to read as: "When the neutral from both incoming & outgoing side are disconnected and the load is taken through earth, the meter should record energy as per rated voltage, rated frequency and 0.866 Power Factor (Lag), in proportion to the current drawn with accuracy of meter within $\pm 3\%$. The test will be conducted through pulse output with/without use of push button. Under such condition, the energy recording should start at load current minimum 20% of Ib. Power CT or battery shall be used for this purpose. Pulse output should come for 5 minutes.
6.	Section III, Vol ACI. No 7.6 g	Even in the tamper condition, i.e. when DC signal is injected on the neutral terminal of the meter through Diode, the meter should record energy accurately i.e. within class of accuracy ($\pm 1\%$) in the range of Vref $\pm 1\%$ applied to the incoming phase & input terminal of the Diode." Load applied shall be heating load of minimum 200W .For above, the test shall be carried out by connecting reference meter at input terminal of the diode with reference voltage applied to the incoming phase & input terminal of the diode.	This clause is hereby amended to read as: "Even in the tamper condition, i.e. when DC signal is injected on the neutral terminal of the meter through Diode, the meter should record energy accurately i.e. within class of accuracy ($\pm 1\%$) in the range of Vref applied to the incoming phase & input terminal of the Diode." The test will be conducted at load current minimum 20% of Ib."For above, the test shall be carried out by connecting reference meter at input terminal of the diode with reference voltage applied to the incoming phase & input terminal of the diode."
7.	Section III, Vol A Cl. No 7.6 h	Even if the incoming phase and neutral terminal of meter are connected to phase wire of the supply and the load is connected on both phase and	This clause is hereby amended to read as: "Even if the incoming phase and neutral terminal of meter are connected to phase wire of the supply and the load is connected on both phase and neutral or either of the two element of the meter separately and is being run through earth, the meter should

		neutral or either of the two element of the meter separately and is being run through earth, the meter should record energy accurately as per accuracy class. Same should also be logged as event with date & time.	record as per rated voltage , rated frequency and 0.866 (lag) power factor, in proportional to the current drawn with accuracy of meter with in +/-3%. The test will be conducted at load current minimum 20% of Ib. The test will be conducted with/without use of push button. Pulse output should come for 5 minutes. Same should also be logged as event with date & time.
8.	Section III, Vol A Cl. No. 16.0 (a) & (b) and PQR Cl. No. VI	Samples along with bid – The bidder shall furnish Seven meters and one meter box conforming to this specification duly sealed along with routine test certificates in the office of SE(MM),JVVNL, Jaipur one day prior to the date of opening of Tender. If the samples are not received, the bid shall be considered as Non-responsive. Out of the above seven sample meters, six sample meters (one set of 3 samples for Electrical testing and another set of 3 samples for Environmental & Mechanical tests) shall be tested at CPRI, Bhopal/ Bangalore in the presence of firm's representative. The testing charges shall be borne by the bidder. The tentative testing charges Rs. 5.0 lac shall be deposited by the bidder in the form of Demand Draft in favour of the Account Officer (MM), Jaipur Discom, Jaipur. In case sample meters submitted with bid don't conform the Type tests, Addl. Type Tests and Tamper tests of specification/ IS, the financial bid shall not be opened. (b) One sample meter with meter box shall be checked / tested for mechanical/ physical features in Nigam's Lab. Sample meter shall be broken to verify components of the meter.	This clause is hereby amended to read as:- "Samples along with bid – The bidder shall furnish Eight meters and one meter box conforming to this specification duly sealed along with routine test certificates in the office of SE(MM),JVVNL, Jaipur one day prior to the date of opening of Tender. If the samples are not received, the bid shall be considered as Non-responsive. Out of the above Eight sample meters, Six sample meters (one set of 3 samples for Electrical testing and another set of 3 samples for Environmental & Mechanical tests) and one sample shall be tested as per IS 15959 for one port (optical port) at CPRI, Bhopal/ Bangalore in the presence of firm's representative. The testing charges shall be borne by the bidder. The tentative testing charges Rs. 6.5 lac shall be deposited by the bidder in the form of Demand Draft in favour of the Account Officer (MM), Jaipur Discom, Jaipur. One sample meter with meter box shall be checked / tested for mechanical/ physical features in Nigam's Lab. Sample meter shall be broken to verify components of the meter. In case sample meters submitted with bid don't conform the Type tests, Addl. Type Tests and Tamper tests of specification/ IS, the financial bid shall not be opened."
9	Section III, Vol B Cl. No 2.4.2. 3	DATA DOWNLOADING THROUGH OPTICAL PORT: An opening (with the arrangement of collar) shall be provided of suitable size on box cover in front of optical port of the meter for assessing CMRI to download the meter data. Suitable arrangement to cover the said opening by rubber cap attached with Box shall be provided. The rubber cap shall	This clause is hereby amended to read as : "DATA DOWNLOADING THROUGH OPTICAL PORT: An opening (with the arrangement of collar) shall be provided of suitable size on box cover in front of optical port of the meter for assessing CMRI to download the meter data. Suitable arrangement to cover the said opening by rubber cap/Plastic cap attached with Box shall be provided. The rubber cap/Plastic cap shall be hanging type connected with the collar."

		be hanging type connected with the collar.	
10	Section III, Vol B Cl. No.2.8 A	The type tests mentioned below must not have been conducted earlier than two years from the date of opening of bid.	This line is hereby amended to read as: "The type tests mentioned below must not have been conducted earlier than three years from the date of opening of Techno-commercial bid.



(ASHOK MATHUR)
SUPERINTENDING ENGINEER (MM)

- 1) Copy submitted to the Chief Engineer(MM) Ajmer Discom/ Jodhpur Discom, Ajmer/Jodhpur for information.
- 2) Copy forwarded to the Superintending Engineer (IT), Jaipur Discom, Jaipur for arranging the hosting of above corrigendum at Nigam's website.



SUPERINTENDING ENGINEER (MM)

