

CORRIGENDUM-I

Amendment & Clarification of Tender Notice No. - WESCO/O&M/1 Ph. En. Meter/O1, Date: **07.06.2016** for supply & installation of 1 lakhs no. of 1-Ph. Single Phase Energy Meter (DLMS Compatible) with box as.

Section no./ Clause no./ page no.	Tender Specification	Proposed Specification
N.B.-2/ Pg. no.- 3		The storage memory capacity of the MRI should be minimum 8 MB . And the Single phase reference meter for calibration should be of Accuracy class-0.5s
Section-I/ Clause no.- 6.1.3(c)/ Pg. no.-8	Each member should have valid statutory license to use ISI Mark Certification/Type tested report from NABL accredited laboratory conducted within last five years for the tendered materials/equipments as applicable for the tender	Each member should have valid statutory license to use ISI Mark Certification/Type tested report from NABL accredited laboratory conducted within last three years for the tendered materials/equipments as applicable for the tender
Section-III(B)/ Clause no.- 27(B)/ Pg. no.- 36		iii) If there is requirement of load cable during shifting of meter from inside to outside of the consumer house, the required size of cable of ISI marked shall be provided by the firm and the same will be reimbursed from WESCO Utility at the prevailing rate of WESCO Utility with proper certification from concern ESO/SDO.
Section-IV/ Clause no.-2.0/ Pg. no.-41	IS: 13779, IEC 1036/ IEC 62053-21, IS 15959 & CBIP Technical repot no. 88 and its latest amendments . The meter shall be ISI marked (vendor shall be BIS certificate) and conforms to CEA metering regulation.	IS: 13779, IS 15959 & CBIP Technical repot no.- 325 The meter shall be ISI marked (vendor shall be BIS certificate) and conforms to CEA metering regulation.
Section-IV/ Clause no.- 3.9(a)/Pg. no.- 41	Meter serial number, Date and time, KWH, MD in KW, History of KWH, MD with occurrence details for last 6 months & meter shall log monthly ON/ OFF hrs as history.	Meter serial number, Date and time, KWH, MD in KW, History of KWH, MD with occurrence details for last 6 months & meter shall log monthly ON hrs as history.
Section-IV/ Clause no.- 3.11/ Pg. no.- 41	MD reset should be manual	MD reset should be Auto reset.
Section-IV/ Clause no.-3.14 (d)/ Pg. no.-42	The vendor shall provide meter reading protocol as per IEC: 62056 & IS 15959 (Cat-C3) relevant to single phase meters for use of CMRI having interoperability facilities of different manufacturers. Meter manufactures must support the changes due to Regulatory or legal requirements.	The vendor shall provide meter reading protocol as per IS 15959 (Cat-C3) relevant to single phase meters for use of CMRI having interoperability facilities of different manufacturers. Meter manufactures must support the changes due to Regulatory or legal requirements.
Section-IV/ Clause no.-3.14 (e)/ Pg. no.-42	Communication protocol IEC: 62056 & IS: 15959 (Cat-C3) relevant to single phase meters shall be used for development of software.	Communication protocol IS: 15959 (Cat-C3) relevant to single phase meters shall be used for development of software.
Section-IV/ Clause no.-3.14	For local meter reading, it shall be possible to do entire meter data download within 2	For local meter reading, it shall be possible to do entire meter data download within 10

(f)/ Pg. no.-42	minute (containing instantaneous values, load survey, 6 histories and events)	minute (containing instantaneous values, load survey, 6 histories and events)
Section-IV/ Clause no.- 4.1(a)/Pg. no.- 42	Top and base transparent material polycarbonate of LEXAN 143A/943AA or equivalent grade having properties of V2 inflammability level and UV stabilized. Meter should have IP-51 class protection or better. Single/Common enclosure of polycarbonate transparent can be used for base & cover. The "meter assemble" should be protected by a metal plate in the back side inside the transparent cover for protecting any tampering of meter parts from back side of the said transparent enclosure.	Top and base transparent material polycarbonate of LEXAN 143A/943AA or equivalent grade having properties of V2 inflammability level and UV stabilized. Meter should have IP-51 class protection or better. Single/Common enclosure of polycarbonate transparent can be used for base & cover. The " meter assemble " should be protected by a metal plate of minimum 0.5 mm thickness in the back side inside/ outside the transparent cover for protecting any tampering of meter parts from back side of the said transparent enclosure. The metal plate should be firmly fixed (non removable)
Section-IV/ Clause no.-4.2/ Pg. no.-42	Made of polycarbonate of grade 500 R or equivalent, brass or copper current terminals with flat-head zinc coated MS screws . Terminal hole dia. shall be minimum 8.5 mm as per CBIP 88/304 . Two nos. of screws to be provided in each current terminal	Made of polycarbonate of grade 500 R or equivalent, brass or copper current terminals with flat-head zinc/ nickel coated brass screws . Terminal hole dia. shall be minimum 8.5 mm as per CBIP-325 . Two nos. of screws to be provided in each current terminal
Section-IV/ Clause no.- 5.1.8/ Pg. no.- 43	Cover open temper icon will show in display as well as in temper data with date & time of occurrence and restoration .	Cover open temper icon will show in display as well as in temper data with date & time of occurrence.
Section-IV/ Clause no.-5.2/ Pg. no.-43 & 44	The meter shall work satisfactorily with guaranteed accuracy limit under the presence of the following influence quantities as per IEC: 1036 , IS 13779 and CBIP Technical Report No: 88 with latest amendment: a) External magnetic field b) Electromagnetic field induction c) Radio frequency interference d) Vibration etc e) Waveform 10% of 3rd harmonics f) Voltage variation g) Electromagnetic H.F. Field h) D.C. immunity test External magnetic field * Test will be done as per IS and CBIP report 88 for AC abnormal field and at 0.5Tesla for DC magnetic field	The meter shall work satisfactorily with guaranteed accuracy limit under the presence of the following influence quantities as per IS 13779 and CBIP Technical Report No: 325 with latest amendment: a) External magnetic field b) Electromagnetic field induction c) Radio frequency interference d) Vibration etc e) Waveform 10% of 3rd harmonics f) Voltage variation g) Electromagnetic H.F. Field h) D.C. immunity test External magnetic field * Test will be done as per IS and CBIP report 325 for AC abnormal field and at 0.5Tesla for DC magnetic field
Section-IV/ Clause no.- 5.3.3/ Pg. no.- 44	Meter should log on the events of attempt of tampering by external magnetic field as mentioned in the relevant IS & CBIP TR-88	Meter should log on the events of attempt of tampering by external magnetic field as mentioned in the relevant IS & CBIP TR-325
Section-IV/ Clause no.-6.2/ Pg. no.- 44		Additional make of Measurement or computing chips: Renesas
Section-IV/ Clause no.-6.3/ Pg. no.- 45		Additional make of Memory chips: Renesas

Section-IV/ Clause no.- 6.11/ Pg. no.- 45	The accuracy of RTC shall be as per relevant IEC/ IS standards/CBIP report 88	The accuracy of RTC shall be as per relevant IS standards/ CBIP report-325 . And additional make of RTC & Micro controller: Renesas																																																																																																					
Section-IV/ Clause no.-8.0/ Pg. no.- 46 & 47	<p>Auto Display Sequence: LCD test, Date & Time, Cum KWH, Present MD in KW, Voltage, Current and Instantaneous Load in KW(KW is preferred with decimal digits).</p> <p>Auto Display Sequence with ON time</p> <table border="1" data-bbox="332 409 917 840"> <thead> <tr> <th>Sl. No.</th> <th>Parameters</th> <th>Display ON time</th> </tr> </thead> <tbody> <tr><td>1</td><td>LCD Display</td><td>10 sec</td></tr> <tr><td>2</td><td>Date and time</td><td>10 sec</td></tr> <tr><td>3</td><td>Cumulative KWH</td><td>10 sec</td></tr> <tr><td>4</td><td>Current month MD (IP 30 min) in KW</td><td>10 sec</td></tr> <tr><td>5</td><td>Instantaneous Voltage</td><td>10 sec</td></tr> <tr><td>6</td><td>Instantaneous Current</td><td>10 sec</td></tr> <tr><td>7</td><td>Instantaneous Load in KW</td><td>10 sec</td></tr> </tbody> </table> <p>Push Button Display Sequence</p> <table border="1" data-bbox="332 861 917 1428"> <thead> <tr> <th>Sl. No.</th> <th>Parameter</th> </tr> </thead> <tbody> <tr><td>1</td><td>LCD Display</td></tr> <tr><td>2</td><td>Meter Serial No. (Minimum six digit)</td></tr> <tr><td>3</td><td>Date and time</td></tr> <tr><td>4</td><td>Cumulative KWH and three month history</td></tr> <tr><td>5</td><td>MD in KW and date of occurrence</td></tr> <tr><td>6</td><td>Instantaneous Voltage</td></tr> <tr><td>7</td><td>Instantaneous Current</td></tr> <tr><td>8</td><td>Instantaneous Load KW</td></tr> <tr><td>9</td><td>Power factor with sign of lag or lead</td></tr> <tr><td>10</td><td>MD Reset Count</td></tr> <tr><td>11</td><td>CMD (Cumulative)</td></tr> </tbody> </table> <p>Display during Power Outage</p> <table border="1" data-bbox="332 1522 917 1711"> <thead> <tr> <th>Sl. No.</th> <th>Parameters</th> <th>Display ON time</th> </tr> </thead> <tbody> <tr><td>1</td><td>Cumulative KWH</td><td>10 sec</td></tr> <tr><td>2</td><td>Present MD</td><td>10 sec</td></tr> </tbody> </table>	Sl. No.	Parameters	Display ON time	1	LCD Display	10 sec	2	Date and time	10 sec	3	Cumulative KWH	10 sec	4	Current month MD (IP 30 min) in KW	10 sec	5	Instantaneous Voltage	10 sec	6	Instantaneous Current	10 sec	7	Instantaneous Load in KW	10 sec	Sl. No.	Parameter	1	LCD Display	2	Meter Serial No. (Minimum six digit)	3	Date and time	4	Cumulative KWH and three month history	5	MD in KW and date of occurrence	6	Instantaneous Voltage	7	Instantaneous Current	8	Instantaneous Load KW	9	Power factor with sign of lag or lead	10	MD Reset Count	11	CMD (Cumulative)	Sl. No.	Parameters	Display ON time	1	Cumulative KWH	10 sec	2	Present MD	10 sec	<p>Auto Display Sequence: LCD test, Date & Time, Cum KWH, Present MD in KW.</p> <p>Auto Display Sequence with ON time</p> <table border="1" data-bbox="950 409 1550 693"> <thead> <tr> <th>Sl. No.</th> <th>Parameters</th> <th>Display ON time</th> </tr> </thead> <tbody> <tr><td>1</td><td>LCD Display</td><td>10 sec</td></tr> <tr><td>2</td><td>Date and time</td><td>10 sec</td></tr> <tr><td>3</td><td>Cumulative KWH</td><td>10 sec</td></tr> <tr><td>4</td><td>Current month MD (IP 30 min) in KW</td><td>10 sec</td></tr> </tbody> </table> <p>Push Button Display Sequence</p> <table border="1" data-bbox="950 871 1550 1480"> <thead> <tr> <th>Sl. No.</th> <th>Parameter</th> </tr> </thead> <tbody> <tr><td>1</td><td>LCD Display</td></tr> <tr><td>2</td><td>Meter Serial No. (Minimum six digit)</td></tr> <tr><td>3</td><td>Date and time</td></tr> <tr><td>4</td><td>Cumulative KWH and three month history</td></tr> <tr><td>5</td><td>Highest MD in KW and date of occurrence from the date of installation</td></tr> <tr><td>6</td><td>Instantaneous Voltage</td></tr> <tr><td>7</td><td>Instantaneous Current</td></tr> <tr><td>8</td><td>Instantaneous Load KW</td></tr> <tr><td>9</td><td>Power factor with sign of lag or lead</td></tr> </tbody> </table> <p>Display during Power Outage</p> <table border="1" data-bbox="950 1543 1550 1732"> <thead> <tr> <th>Sl. No.</th> <th>Parameters</th> <th>Display ON time</th> </tr> </thead> <tbody> <tr><td>1</td><td>Cumulative KWH</td><td>10 sec</td></tr> <tr><td>2</td><td>Highest MD</td><td>10 sec</td></tr> </tbody> </table>	Sl. No.	Parameters	Display ON time	1	LCD Display	10 sec	2	Date and time	10 sec	3	Cumulative KWH	10 sec	4	Current month MD (IP 30 min) in KW	10 sec	Sl. No.	Parameter	1	LCD Display	2	Meter Serial No. (Minimum six digit)	3	Date and time	4	Cumulative KWH and three month history	5	Highest MD in KW and date of occurrence from the date of installation	6	Instantaneous Voltage	7	Instantaneous Current	8	Instantaneous Load KW	9	Power factor with sign of lag or lead	Sl. No.	Parameters	Display ON time	1	Cumulative KWH	10 sec	2	Highest MD	10 sec
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Section-IV/ Clause no.- 7.2/Pg.no.- 46	Meter Sr. Nos. to be printed in black on the name plate, instead of embossing.	Meter Sr. Nos. to be printed in black on the name plate, instead of embossing. In case of color name plate the printing should be in white color.																																																																																																					
Section-IV/ Clause no.- 9.0/Pg.no.- 47	TEST AND TEST CONDITIONS (As per IS: 13779/ IEC: 62052-11)	TEST AND TEST CONDITIONS (As per IS: 13779)																																																																																																					
Section-IV/	All acceptance tests as stipulated in the	All acceptance tests as stipulated in the																																																																																																					

Clause no.- 9.1.1/ Pg. no.- 47	relevant standard shall be carried out by the supplier in the presence of Purchaser's representative. Also the following additional tests shall be carried out on meters from each lot for inspection as per CBIP technical report- 88 with latest amendments on randomly selected samples-	relevant standard shall be carried out by the supplier in the presence of Purchaser's representative. Also the following additional tests shall be carried out on meters from each lot for inspection as per CBIP technical report- 325 with latest amendments on randomly selected samples-
Section-IV/ Clause no.- 15.0/ Pg. no.- 50	The vendor shall provide meter reading protocol as per IEC: 62056 & IS 15959 (Category- C3) relevant to single phase meter for use of CMRI having interoperability facilities of different manufacturers.	The vendor shall provide meter reading protocol as per IS 15959 (Category- C3) relevant to single phase meter for use of CMRI having interoperability facilities of different manufacturers.
Section-IV, Technical Specification of Meter Box/ Clause no.- 15.0(xiv) / Pg. no.- 52	Printed metallic name plate shall have details of property of WESCO Utility, Purchase order no., date and Meter No.____. It shall be fixed on the front cover of the box with rivet such that it cannot be removed easily. Name of Manufacturer & danger sign and the message "Breaking of TP box treated as tempering of Meter" shall be engraved/ embossed on the front cover of the box	The details like property of WESCO Utility, P.O. no./ date and Meter No. <u>xxxxxx</u> (For additional TP box the Meter No.____ should be kept blank), Name of Manufacturer & danger sign and the message "Breaking of TP box treated as tempering of Meter" shall be engraved/ embossed on the front cover of the box or Printed in the metallic name plate & shall be fixed on the front cover of the box with rivet such that it cannot be removed easily .

TENDER NOTICE NO: WESCO/O&M/1Ph. En. Meter/O1, Date: 07.06.2016

ANNEXURE – IV (A)

GUARANTEED TECHNICAL PARTICULARS OF SINGLE PHASE STATIC, 10-60A, ENERGY METER OF CLASS-1.0s ACCURACY WITH LCD BACKLIT DISPLAY HAVING OPTICAL PORT FACILITY

Sl. No.	Item Description	Requirement	Bidder's Offer
1	Name of the manufacturer		
2	Type, name (Model)		
3	Standard Applicable	IS:13779/1999,IS15959, CBIP Report-88 with its latest amendment as on date	
4	Rating	10-60Amp.	
(i)	Accuracy Class	Class- 1.0	
(ii)	Rated Voltage	240V (+20%-40%)	
(iii)	Rated Current	1b-10Amp. I _{max} 60Amp.	
(iv)	Rated Frequency	50Hz ± 5%	
(v)	Power Factor	0.25 lag – Unity- 0.5 lead	
(vi)	Shall work within accuracy upto max. loading	Shall work within accuracy up to I _{max} loading as per IS.	
5 (i)	Continuous current rating (Amp)	60 Amps.	
(ii)	Running with no load and 115% of rated voltage.	(No creeping) As pre relevant IS:13779/1999	
6	Short time over current for one half cycle at rated frequency	As per relevant IS:13779/1999	
7	Starting current at which meter shall run & continue to run	0.2% of I _b at rate voltage and unit power factor.	
8	Power loss at rated frequency & reference temperature		
(a)	Current circuit at rated current	Less than 1VA	
(b)	Voltage circuit at rated current	Less than 1 Watt or 4VA.	
9	Type of material used		

(a)	Base material and thickness	As per clause-4.0, Constructional Specification	
(b)	Meter cover material	As per clause-4.0, Constructional Specification	
(c)	Terminal Block material	As per clause-4.0, Constructional Specification	
10	Transducers		
(i)	Input	CT/Shunt or combination and potential divider (PT less)	
(ii)	Output	Digital	
11	Type of Display	LCD with Backlit	
(i)	Operation suitability	LCD is Suitable for operation up to 70°	
(ii)	No. of Digits	6 digit display without decimal for KWH (Decimal not required High resolution display to be provided for calibration.)	
(iii)	Size of Numerals	About 8X3 mm for clear visibility of reading.	
12	Display sequence (display should be self explanatory)		
12.1	Auto Scroll Mode	As per clause-8 of Technical Specification	
12.2	Push button mode	As per clause-8 of Technical Specification	
13	Type of Push button arrangement	Spring loaded push button will be provided on top cover of meter & meter box to activate the push button of meter to read parameter	
14	Reading during power-off Condition	Meter shall comply the provisions as per clause 8 during power outage condition.	
15	Type of port provided with meter for data downloading and calibration through Single phase portable reference meter.	A galvanically isolated optical port located in front of the meter for data transfer through MRI as well as data down loading and spot billing. Meter should be tested through Pulse/ Direct/ MRI mode with Portable reference meter.	
16	Battery of Real time clock	i) Battery life is of 10 year. ii) The drift in time is as per IS/CBIP report-325	
17	Fixing/Sealing arrangement		
(i)	Fixing of meter	Min.3 fixing holes (one at top & two at button under terminal block). The top fixing screw shall be not be accessible after meter is fixed to meter box base.	
(ii)	Sealing of meter cover to base	As per IS 13779 and CEA Metering Regulation 2006 with amendment regulation 2010, supplier will fix its seal on meter. The seal shall made up of polycarbonate materials with manufacturer's name or logo & serial no of seals. The sealing record shall be forwarded to buyer. Arrangement shall be provided for buyer sealing, except in case of common molded enclosure meter.	
18	Performance of meter in tamper conditions:		
(i)	I/C & O/G Interchanged	Meter should record forward energy within accuracy	
(ii)	Phase & Neutral Interchanged	Meter should record forward energy within accuracy	
(iii)	I/C Neutral Disconnected, O/G Neutral & Load Connected to	Meter should record forward energy within accuracy	

	Earth		
(iv)	I/C Neutral Disconnected, O/G Neutral Connected to Earth Through Resistor & Load Connected to Earth	Meter should record forward energy within accuracy	
(v)	I/C Neutral connected, O/G Neutral Connected To Earth Through Resistor & Load Connected to Earth	Meter should record forward energy within accuracy	
(vi)	I/C (Phase & Neutral) Interchanged, Load Connected to Earth	Meter should record forward energy within accuracy	
(vii)	I/C & O/G (Phase & Neutral) Disconnected, Load Connected to Earth	Meter should record forward energy within accuracy	
(viii)	Cover Open	Cover open temper icon will show in display as well as in temper data with date & time of occurrence and restoration.	
(ix)	Magnetic Interference	The meter will record in deford metering. i.e. $V_{ref} \times I_{max} \times \text{Unity P.F.}$	
(x)	Low Voltage	Less than 75% of V_{ref} – Meter will record energy on Actual voltage x Actual current drawn x Actual P.F. within accuracy (If current drawn more than 0.4% of I_{base}). Also temper icon will show in display as well as in temper data with date & time of occurrence and restoration.	
(xi)	Influence Quantities	As per table no.- 17 of IS:13779:1999.	
(xii)	Meter shall record Energy when only phase or neutral current passing through the meter 1 Amp or more.	It shall record energy taking V_{ref} & current flowing through meter.	
(xiii)	Indication in above tamper condition	(LED or Icon)	
(xiv)	Protection against HV Spark	Meter shall continue to record energy or log the event, in case it is disturbed externally using a spark/gun/ignition coil, up to 35 KV, meter should be immuned.	
(xv)	Recording of neutral disturbance.	Meter shall log all events when AC/DC/ Pulsating voltage is injected in neutral circuit especially when same can disturb the recording of energy.	
19	Suitability of meter to sustain over voltage i.e. phase to phase voltage injected between phase & neutral	Should sustain	
20	Calibration LED and other LED/Icon	Calibration LED of Red colour, Power on LED & rest are to be provided as Icons or LED.	
21	Electromagnetic compability (EMC/EMI severity level)	As per relevant IS & CBIP report.	
22	Effect on accuracy of external electromagnetic interference of electrical discharge, external magnetic field & DC current in AC supply or in neutral	As per the limits specified in CBIP- 325	
23	Effect of accuracy in tamper conditions	As per IS: 13779/CBIP- 325 with latest amendment.	
24	Ref Temperature	27°C	
25	Temperature range of operation	As per IS: 13779.	
26	Drift in accuracy of measurement	No Drift in accuracy in measurement with	

		time.	
27	Fixing arrangement of name plate	As per IS: 13779	
28	Type of body	Projection type	
29	Calibration	Software calibrated at factory	
30	Mounting of components on PCB shall be SMT Type	SMT type and ASIC technology	
31	BIS certification	No:-	Validity:-
32	Components make	The bidder shall use reputed make branded components in the meter. The components used by manufacturer shall have "Minimum Life" more than 10 year, as mention above.	
(i)	Current Transformers		
(ii)	Measurement or computing chips		
(iii)	Memory Chips		
(iv)	Display modules		
(v)	Optical Port		
(vi)	Electronic Components		
(vii)	LED		
(viii)	Battery		
(ix)	RTC & Micro controller		
(x)	PCB		

Signature of Bidder along with Seal & date

Subsequently the Time Schedule will be follows as

TIME SCHEDULES:

1.	Last Date & Time for selling of tender papers	On dt.11.07.2016 up to 5.00PM
2.	Last Date & Time for submission of Bid Document	Up to 12.07.2016 up to 2.00 PM
3.	Date & Time for opening of Technical Bid	On dt.12.07.2016 at 3.30PM