Dual Source Three Phase Four Wire Meter

S. No.	Particulars	Offered by GEPDEC
1.	Name of manufacture	GEPDEC Energy Private. Ltd.
2.	Standard Applicable	IS 13779, IECs, CBIPs
3.	Type of Meter	Dual Source: 3ϕ Four Wire
4.	Current Rating	10-60A (10A Ib and 60A Imax)
5.	Accuracy Class	1.0
6.	Rated Voltage	3 x 240V L-N (-40% to +20%)
7.	Specific LED Indication	DG-Mains, TRP
8.	Cal. Pulse	kWh, kVArh
9.	Power Factor	Zero Lag - Unity - Zero Lead
10.	Frequency	50Hz ±5% (47.5 Hz to 52.5 Hz)
11.	Starting Current at which meter shall run and continue to run.	0.4% Ib at rated Voltage.
12.	Meter Base	Polycarbonate /ABS Engineering Plastic
13.	Meter Cover	Transparent Polycarbonate
14.	Terminal Block	Flame Retardant Polycarbonate
15.	Terminal Cover	Transparent Polycarbonate (optional)
16.	Energy Measurement	○ Total Active Energy ○ Total Apparent Energy ○ Total Reactive Energy
17.	Maximum Demand	○ Active Power Demand = 30 Minute Fixed Window. ○ Apparent Power Demand = 30 Minute Fixed Window.
18.	Calibration	Through Software
19.	Meter Constant	1600 Imp/KWh
20.	Communication Port	Optical Port and RS-485 Communication (Mountable type so that both round and square can be supported).
21.	Source Selection	Line Voltage
22.	Latching Relay Current Capacity	Separate – with 90 A.
23.	Energy Recording for Grid and DG	Energy is recorded for both separately.
24	**Display (as per Annexure -A)**	
24.1	Power On	○ LCD Segment ○ Meter Serial Number ○ Meter Communication Id
24.2	Push Button	Two Separate Button is required.
24.3	Display Scroll (During Display Scroll) – 10 Seconds interval	○ Time ○ Date ○ Total KWh, KVAh, and KVARh unit of both Power Source (EB and DG) ○ Voltage of R, Y, and B with respect to neutral ○ Current R, Y, B Phase Instantaneous ○ Power Factor of R, Y, B, and system ○ Line Frequency ○ Instantaneous value of R, Y, B and system of kW, kVA, and kVAr.

		○ Last Month MD & Current running MD in kW, kVA with value and date, time of the event with 30 minutes fixed window. (Grid & DG separately)
24.4	Scroll Push Button	○ Over/Under voltage threshold value – reference value for that threshold and overload set value for both sources, the reference time for overload cut and restore. (Grid & DG separately) ○ Number of phases allowed for all supported power sources. ○ Bill Point of both power source individual KWh and KVAh for last year. (Grid & DG separately) ○ Meter Communication Id ○ MD in kW and kVA with Date and Time for last 12 months (Grid & DG separately)
24.	Display on LCD as per condition occurred and data logging which can be read via BCS	○ Magnet Tamper detection indication and if detect meter should register @ IMAX. ○ Cover Open Tamper ○ Phase Indication ○ Power show on LCD and indicate in LED also ○ Overload trip, Master Cut Trip, Under/Over voltage trip segment indication with one LED indication also.
25.	Setting Parameter Through Key	Max load set, Under/Over voltage set functions, Meter communication Id
27.	Communication Parameters	○ Meter Serial Number (View) ○ Meter RTC (View) ○ Total kWh, kVAh, and kVArh unit of both power sources (View) (Grid & DG separately) ○ Voltage R, Y, B with respect to Neutral (View) ○ Current R, Y, B phase Instantaneous (View) ○ Power Factor of R, Y, B, and system (View) ○ Line Frequency of system (View) ○ Instantaneous value of R, Y, B, and system kWh, kVAh, and kVArh(View) ○ Last one year MD & Current running MD in kW, kVA with value and date, time of the event with 30 minutes fixed window. (View) ○ Over/Under voltage threshold value, the reference value for that threshold (View and Edit) ○ Overload set value for both sources, the reference time for overload cut & restore (View and Edit) ○ Configurable Maximum number of overload events per day. (View and Edit) ○ Number of phases allowed for all supported power sources. (View and Edit)

		○ Bill point of both power source individual kWh, kVAh for last one year (View) ○ Magnet Tamper Detection (View) ○ Cover Open Tamper Detection (View) ○ Meter communication Id (view and edit) ○ Master cut and restore ○ Meter current status (Master Cut, overload cut, Under/over voltage cut, power source)
27.	Communication Protocol	Open Protocol and It can be shared.