Central Electronics Limited
Materials Management Division

30th October, 2018

CORRIGENDUM-III

Ref: **Tender Notice No. C-2(b)/RC/0700/4528/2018 dated 12.10.2018**
Sub: Pre-Bid Tie-up for arranging rate contract for Supply, I&C of 150 W Solar Home System (DC Model)"

In our tender notice/document No. **C-2(b)/RC/0700/4528/2018 dated 12th October, 2018, the following is amended:**

1.	Due date of tender submission is hereby extended up to 12th November 2018 till 14:30 hours.
2.	Amendment in terms and conditions of the tender is attached.

All other terms and conditions will remain same.

For CENTRAL ELECTRONICS LIMITED
sd/-
GENERAL MANAGER
MATERIALS MANAGEMENT DIVISION

<table>
<tr><td>Reference bid document
page & Para/ clause</td><td>Amended to</td></tr>
<tr><td>Page 2 of 144</td><td>Earnest Money Deposit Rs. 1,74,576/-</td></tr>
<tr><td>Page 6 of 144</td><td>EMD of Rs. 1,74,576/- (One Lakh Seventy Four Thousand Five Hundred Seventy Six Only)</td></tr>
<tr><td>Page 7 of 144</td><td>Estimated Value of CEL Tender – Rs. 51,50,00,000/- (on prorate basis based on award criteria of the end customer tender)</td></tr>
<tr><td>Page 46 of 144 (1.1) & 1.2</td><td>(1.1) Estimated cost be read as Rs. 14750.00 lacs
(1.2) Estimated average value per unit be read as Rs. 29500/-.</td></tr>
<tr><td>Page 76 of 144 (Light Output)</td><td>Minimum 32 Lux when measured from a height of 2.5 meter in an area of 2.5 meter diameter, be read as :-
“Minimum 32 Lux <u>of each luminaire</u> when measured from a height of 2.5 meter in an area of
2.5 meter diameter”</td></tr>
<tr><td>Page 77 & 78 of 144</td><td>The Para regarding “BATTERY” shall be as under :-
BATTERY
The battery should be Lithium Ferro Phosphate (LiFePo4) having capacity minimum
12.8 Volt 80Ah at standard conditions. The other feature of battery should be:-
<table>
<tr><td>S.No.</td><td>Description</td><td>Specification</td></tr>
<tr><td>1.</td><td>Battery Configuration</td><td>12.8V 80Ah, LiFePo4</td></tr>
<tr><td>2.</td><td>Working temperature range
(both for charging & discharging)</td><td>0-60 Deg. C</td></tr>
<tr><td>3.</td><td>Minimum Capacity of individual Cells</td><td>3.2V 20Ah</td></tr>
<tr><td>4.</td><td>Type of Cell</td><td>Prismatic or Cylindrical</td></tr>
<tr><td>5.</td><td>Nominal capacity</td><td>80Ah</td></tr>
<tr><td>6.</td><td>Nominal Voltage</td><td>12.8 Volt</td></tr>
<tr><td>7.</td><td>Voltage range</td><td>10.0 Volt to 14.6 Volt</td></tr>
<tr><td>8.</td><td>Total energy</td><td>1024 Whr</td></tr>
<tr><td>9.</td><td>Rated Charging Current</td><td>15A</td></tr>
<tr><td>10.</td><td>Low Load disconnect</td><td>10.4 Volt +=0.2V</td></tr>
</table>
The Lithium Phosphate battery needs a very good “Battery Management System (BMS)” to ensure the proper charging and discharging of each cell of battery with proper protection of battery when temperature is reaching beyond battery permissible limits. This battery also needs constant current and constant voltage charging methodology related to upper voltage limit of battery. BMS primary focus is therefore on the safety and the protection of the battery to minimise the risk of sudden failure and to maximise the life cycle of the battery.
The battery should comply IS: 16046 & IEC 62133.

Bidders may also offer compact pack consisting of charge controller, BMS & Battery in one housing of suitable material confirming to technical parameters specified in the tender document.</td></tr>
<tr><td>Page no. 78 of 144</td><td>In SOLAR CHARGE CONTROLLER & ELECTRONICS, following amendments are made :-
(I) Sub Para II & VII are deleted.
(II) In Sub Para VI, in the first line, the words “and no display” are deleted. It shall be read as “The idle current (self consumption) i.e. when there is no load, should
be less than 40 mA respectively</td></tr>
</table>

Page no. 79 of 144	Sub Para, III (regarding Load reconnect) in **ELECTRONICS PROTECTION** is deleted.
Page no. 79 of 144	In sub para IV of MECHANICAL COMPONENTS, the line "The Box should have separate compartment for BMS with IP 65" be read as "The BMS module is the part of battery pack". In sub para 1 of INSTALLATION OF SYSTEM, the Size of M.S. (Galvanised) angle should be 35x35x5 mm.
Page 97 of 144	In S.No. 2 of Bid Capacity Information, 23000/- per system be read as 29500/- per system