

**BID INFORMATION SHEET**

<b>Document Description</b>	The bidding process for provision of Solar Street Lights at various CMRL Premises
<b>RFS No. &amp; Date</b>	CMRL/JGMRS/SOLAR STREET LIGHT/01
<b>Broad Scope</b>	SEALED QUOTATIONS ARE INVITED FROM BIDDERS INTERESTED IN SUPPLY AND INSTALLATION OF 25 NUMBERS OF 50 WATTS SOLAR STREET LIGHTS WITH LITHIUM –IRON BATTERY BACK UP, AT VARIOUS CMRL PREMISES, ON EXISTING POLES
<b>Estimated Project Cost</b>	Approx. Rs. 10,00,000/-
<b>Period of Completion of Work</b>	45 DAYS FORM DATE OF ISSUE OF LOA
<b>Last Date For Submitting Quotation</b>	11 / 04/ 2017, 15.00 hours
<b>Opening of Quotations</b>	11/04/2017 up to 15.30 hours (IST)
<b>Earnest Money Deposit</b>	Rs. 10,000/- (Rs. Ten Thousand only) to be furnished through Demand Draft (DD) drawn In favor of “Chennai Metro Rail Limited” payable at Chennai along with Quote
<b>Performance Security (PBG/DD)</b>	Rs. 1,00,000/- (Rs. One Lakh only) to be furnished through Demand Draft (DD) drawn In favor of “Chennai Metro Rail Limited” payable at Chennai along with Quote
<b>Name, Designation, Address and other details (For Submission of Sealed Quotations)</b>	Joint General Manager / RSO Chennai Metro Rail Ltd. Admin Building, CMRL Depot, Poonamallee High Road, Koyambedu, Chennai – 600107

## **TECHNICAL SPECIFICATION:**

### **KEY FEATURES**

- 2 stage Intelligent dimming after 3 hours and 6 hours of operation
- Intelligent charging provides backup even on cloudy days
- Inbuilt battery lowers cost of installation and avoids theft
- Inbuilt Automatic ON/OFF and motion sensor
- IEC certified Solar panel >25years life
- LM80 certified LED with 10 years lifetime
- Rechargeable, NO maintenance UL certified lithium-ion batteries
- Pressure Die Cast Aluminum body for improved led life
- IP65 compliant design to protect from rain and dust
- High efficiency electronics and thermal management
- Aesthetic looks with reflector and lens
- 2 year system warranty

<b>Parameter</b>	<b>Units</b>	<b>30 WATTS</b>	<b>40 WATTS</b>	<b>50 WATTS</b>
Solar Charging – full sunlight	Hrs.	6±1	6±1	6±1
Run time (Motion Sensor OFF)	Hrs.	Dusk to Dawn	Dusk to Dawn	Dusk to Dawn
Run time (Motion sensor ON)	Hrs.	10±1	6±1	6±1
Autonomy (30% charging; cloudy days)	Hrs.	6	6	6
Battery ( Li-Ion )		2X(14.8V, 5.2Ah)	2X(14.8V, 5.2Ah)	3X(14.8V, 5.2Ah)
Battery upper/lower cutoff	V	16.8 /11.6	16.8 /11.6	16.8 /11.6
Solar Panel Pm	W	50	60	75
Solar Panel Vm/Im	V /A	18 /3.0	18.0 / 3.5	18 / 4.5
Peak Light Output (Motion Sensor OFF)	Lux	18@5m pole height	13@6m pole height	18 @ 7m pole height
Peak Light Output (Motion Sensor ON)	Lux	37 @ 5m pole height	37 @ 6m pole height	37 @ 7m pole height

Light diming levels ( duration)	Hrs.	3hr @ 100%; 3hr @ 60%; 6hr @ 30%	3hr @ 100%; 3hr @ 60%; 6hr @ 30%	3hr @ 100%; 3hr @ 60%; 6hr @ 30%
Lens FWHM angle	deg.	108 X 48	108 X 48	108 X 48
System Power Consumed (Peak)	W	24±5%	35±5%	45±5%
<b>System Rated power</b>	<b>W</b>	<b>30</b>	<b>40</b>	<b>50</b>
Sodium Vapor replacement	W	70	150	200
Idle Current	mA	<0.4	<0.4	<0.6
PIR detection range	meter	12@5m	14@6m	16@7m
Battery Life time	cycles	1000	1000	1000
IP		65	65	65
Dimension (l×w×h)	mm	478X230X95	478X230X95	510X290X67
Weight (light only)	Kg	5.2	5.2	8.2

JGM/RSO

CHENNAI METRO RAIL LTD