

**25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50Mwh Battery  
Energy Storage System**

**Taru, Leh, UT of Ladakh, India**

## **Summary for Billing Break Up**

**Client - Solar Energy Corporation of India**

**EPC - Prozeal Green Energy Limited**

## Summary of Billing Break-up

Project Details						
1 Project Name	Solar Energy Corporation of India - Leh Solar and BESS Project Teru, Leh, UT of Ladakh, India					
2 Address	25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System					
3 Project Size (AC)						
SR NO	Description	Basic Amount	GST %	GST		Grand Total
1.1	SOR 1 - Supply - Part A	₹ 1,46,78,97,905.91	13.54%	₹ 19,87,44,480.10	₹	₹ 1,66,66,42,386.02
1.2	SOR 1 - Supply - Part B	₹ 50,90,68,971.00	18.00%	₹ 9,16,32,44,78	₹	₹ 60,07,01,385.78
1	Total Price of Schedule No 1/SOR 1	₹ 1,97,69,66,876.91	14.69%	₹ 29,03,76,894.88	₹	₹ 2,26,73,43,771.80
2.1	SOR 2 - Service - Part A	₹ 24,71,20,658.91	16.00%	₹ 4,44,81,754.60	₹	₹ 29,16,02,613.51
2.2	SOR 2 - Service - Part B	₹ 24,71,20,829.00	16.00%	₹ 4,44,81,754.62	₹	₹ 29,16,02,613.62
2	Total Price of Schedule No 2/SOR 2	₹ 49,42,41,777.91	18.00%	₹ 8,89,63,509.22	₹	₹ 58,32,05,227.13
	<b>Grand Total Price of Schedule SOR1+SOR2+SOR3</b>	<b>₹ 2,47,12,08,594.82</b>	<b>15.35%</b>	<b>₹ 37,93,40,404.11</b>	<b>₹</b>	<b>₹ 2,85,05,48,998.93</b>



## Billing Break-Up for Supply of Main Equipment with Accessories - SOR 1

Project Name		Solar Energy Corporation of India - Leh Solar and BESS Project	
1	Project Address	Taru, Leh, UT of Ladakh, India	
2	Project Size (AC)	25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System	

### SCHEDULE OF RATES [SOR-1]- SOLAR PART (25 MW (AC), 50 MWp (DC)) - Part-A

Sl.No	Description	UOM	Qty	Unit Rate	Total Basic (without Tax)	Tax (GST) %	Tax (GST) Amount	Total Amount (with Tax)
1	Supply of PV Modules as specified in the Tender Documents	KWp	50000	₹ 19,769.67	₹ 98,84,83,438.00	12%	₹ 11,86,18,012.56	₹ 1,10,71,01,450.56
1.1	Solar PV Module							
2	Supply of Inverters as specified in the Tender Documents	Nos	16	₹ 61,78,021.50	₹ 9,88,48,344.00	12%	₹ 1,18,61,801.20	₹ 11,07,10,145.28
2.1	Solar Inverter							
3	Supply of Inverter Transformer as specified in the Tender Documents	Nos	4	₹ 1,80,19,668.75	₹ 7,20,78,675.00	18%	₹ 1,29,74,161.50	₹ 8,50,52,836.50
3.1	Inverter Duty Transformer - Solar							
3.2	Power Transformer - Solar							
3.3	Auxiliary Transformer							
4	Supply of MV Switchgear and RMU as specified in the Tender Documents	Lot	4	₹ 20,00,000.00	₹ 80,00,000.00	18%	₹ 14,40,000.00	₹ 94,40,000.00
4.1	HT/COG Panel - Solar							
4.2	String Combiner Box - Solar							
5	Supply of Module Mounting Structure as specified in the Tender Documents	Tables	2792	₹ 11,650.00	₹ 3,25,26,800.00	18%	₹ 58,54,824.00	₹ 3,83,81,624.00
5.1	Supply of MMS - Piling Column - Interior Table	Tables	2792	₹ 9,200.00	₹ 2,56,86,400.00	18%	₹ 46,23,552.00	₹ 3,03,09,952.00
5.2	Supply of MMS - Rafter - Interior Table	Tables	2792	₹ 16,100.00	₹ 4,49,51,200.00	18%	₹ 80,91,216.00	₹ 5,30,42,416.00
5.3	Supply of MMS - Purlin - Interior Table	Tables	2792	₹ 3,200.00	₹ 89,34,400.00	18%	₹ 16,08,192.00	₹ 1,05,42,592.00
5.4	Supply of MMS - Bracing - Interior Table	Lot	1	₹ 10,58,550.00	₹ 10,58,550.00	18%	₹ 1,90,539.00	₹ 12,49,089.00
5.5	Supply of MMS - Fasteners - Interior Table	Tables	770	₹ 20,000.00	₹ 1,54,00,000.00	18%	₹ 27,72,000.00	₹ 1,81,72,000.00
5.6	Supply of MMS - Piling Column - Exterior Table	Tables	770	₹ 10,100.00	₹ 77,77,000.00	18%	₹ 13,99,860.00	₹ 91,76,860.00
5.7	Supply of MMS - Rafter - Exterior Table	Tables	770	₹ 22,800.00	₹ 1,75,56,000.00	18%	₹ 31,60,080.00	₹ 2,07,16,080.00
5.8	Supply of MMS - Purlin - Exterior Table	Tables	770	₹ 5,100.00	₹ 39,27,000.00	18%	₹ 7,06,860.00	₹ 46,33,860.00
5.9	Supply of MMS - Bracing - Exterior Table	Lot	1	₹ 3,40,000.00	₹ 3,40,000.00	18%	₹ 6,120,000	₹ 4,01,200.00
6	Spare Modules (As Mandatory Spares, 0.50% of total supply of solar modules)	KWp	250	₹ 15,815.74	₹ 39,53,934.00	12%	₹ 4,74,472.08	₹ 44,28,406.08
6.1	Solar PV Module Spare module - 0.50%							
7	Mandatory Spares excluding Modules	Lot	1	₹ 98,84,834.00	₹ 98,84,834.00	18%	₹ 17,79,270.12	₹ 1,16,64,104.12
7.1	Supply of Mandatory Spares excluding modules (including BESS Spares if any)							
8	Cables (All DC, LT & HT)	Lot	10	₹ 25,00,000.00	₹ 2,50,00,000.00	18%	₹ 45,00,000.00	₹ 2,95,00,000.00
8.1	DC String Cable	Lot	10	₹ 21,00,000.00	₹ 2,10,00,000.00	18%	₹ 37,80,000.00	₹ 2,47,80,000.00
8.2	DC Cable	Lot	10	₹ 22,00,000.00	₹ 2,20,00,000.00	18%	₹ 39,60,000.00	₹ 2,59,60,000.00
8.3	HT cables							
8.4	LT Auxiliary, Control & Communication Cable	Lot	1	₹ 11,93,841.00	₹ 11,93,841.00	18%	₹ 2,14,891.38	₹ 14,08,732.38
9	Weather Monitoring Station	Lot	1	₹ 9,76,967.00	₹ 9,76,967.00	18%	₹ 1,75,854.06	₹ 11,52,821.06
9.1	SCADA and Weather Monitoring System (EMS)	Lot	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00	₹ 11,80,000.00
9.2	Energy Management System (EMS)							
10	Manufacture & Supply of Balance of System including all Equipment's, Materials, Spares, Accessories, Safety & Fire Fighting System etc. excluding in above Solar Part supply and any other Supplies specified in the Tender Documents.							
10.1	Plant Earthing & Lightning Protection System	Lot	1	₹ 32,30,331.00	₹ 32,30,331.00	18%	₹ 5,81,459.58	₹ 38,11,750.58
10.2	Street Lights	Lot	1	₹ 15,04,788.00	₹ 15,04,788.00	18%	₹ 2,70,861.84	₹ 17,75,649.84



10.3	Chain Link Fencing, poles, barbwire & Main gate	Lot	1	₹ 1,25,00,000.00	₹ 1,25,00,000.00	18%	₹ 22,50,000.00	₹ 1,47,50,000.00
10.4	CCTV	Lot	1	₹ 15,00,000.00	₹ 15,00,000.00	18%	₹ 2,70,000.00	₹ 17,70,000.00
10.5	Fire Detection and Alarm System	Lot	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00	₹ 11,80,000.00
10.6	Module cleaning system	Lot	1	₹ 30,00,000.00	₹ 30,00,000.00	18%	₹ 5,40,000.00	₹ 35,40,000.00
	<b>Total</b>			<b>₹ 1,46,78,905.91</b>			<b>₹ 19,87,44,480.10</b>	<b>₹ 1,66,66,42,386.02</b>

## SCHEDULE OF RATES [SOR-1] - BESS PART (20MW/50MWh) - Part - B

Sl No	Description	UoM	Qty	Unit Rate	Total Basic (without Tax)	Tax (GST) %	Tax (GST) Amount	Total Amount (with Tax)
1.1	Supply of Battery as specified in the Tender Documents	Nos	10	₹ 3,95,39,337.50	₹ 39,53,93,375.00	18%	₹ 7,11,70,807.50	₹ 46,65,64,182.50
11.1	Battery Container - BESS							
12	Supply of Battery Management System (BMS) as specified in the Tender Documents							
12.1	Battery Container - BMS	Lot	1	₹ 98,84,834.00	₹ 98,84,834.00	18%	₹ 17,79,270.12	₹ 1,16,64,104.12
13	Supply of Bidirectional Inverter (PCSI), as specified in the Tender Documents	Nos	10	₹ 39,53,933.80	₹ 3,95,39,338.00	18%	₹ 71,17,080.84	₹ 4,66,56,418.84
13.1	Inverter - BESS							
14	Supply of Step-up Transformer as specified in the Tender Documents							
14.1	Inverter Duty Transformer - BESS	Nos	5	₹ 19,76,966.80	₹ 98,84,834.00	18%	₹ 17,79,270.12	₹ 1,16,64,104.12
14.2	Power Transformer - BESS	Nos	1	₹ 1,97,69,669.00	₹ 1,97,69,669.00	18%	₹ 35,58,540.42	₹ 2,33,28,209.42
15	Supply of MV Switchgear/ RMU as specified in the Tender Documents							
15.1	HT Panel Switchboard Panel - BESS	Lot	1	₹ 1,48,27,252.00	₹ 1,48,27,252.00	18%	₹ 26,68,905.36	₹ 1,74,96,157.36
16	Manufacture & Supply of Balance of System including all Equipment's, Materials, Spares, Accessories, Grounding, Lighting, Lightning, Safety & Fire Fighting System etc., excluding BESS part supply above and any other Supplies specified in the Tender Documents							
16.1	Switchyard Equipment - Lightning Arrestor	Nos	12	₹ 1,50,000.00	₹ 18,00,000.00	18%	₹ 3,24,000.00	₹ 21,24,000.00
16.2	Switchyard Equipment - Circuit breaker	Nos	5	₹ 5,00,000.00	₹ 25,00,000.00	18%	₹ 4,50,000.00	₹ 29,50,000.00
16.3	Switchyard Equipment - Current Transformer	Nos	27	₹ 1,50,000.00	₹ 40,50,000.00	18%	₹ 7,29,000.00	₹ 47,79,000.00
16.4	Switchyard Equipment - Potential Transformer	Nos	24	₹ 1,50,000.00	₹ 36,00,000.00	18%	₹ 6,48,000.00	₹ 42,48,000.00
16.5	Switchyard Equipment - ABT Meter	Lot	1	₹ 8,00,000.00	₹ 8,00,000.00	18%	₹ 1,44,000.00	₹ 9,44,000.00
16.6	Switchyard Equipment - Isolator	Nos	14	₹ 3,00,000.00	₹ 42,00,000.00	18%	₹ 7,56,000.00	₹ 49,56,000.00
16.7	Switchyard Equipment - CRP Panel	Lot	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00	₹ 11,80,000.00
16.8	Switchyard Equipment - Balance of System	Lot	1	₹ 5,00,000.00	₹ 5,00,000.00	18%	₹ 90,000.00	₹ 5,90,000.00
16.9	66KV Transmission Line Equipment	Lot	1	₹ 11,19,669.00	₹ 11,19,669.00	18%	₹ 2,01,540.42	₹ 13,21,209.42
16.10	Miscellaneous Items for Supply	Lot	1	₹ 2,00,000.00	₹ 2,00,000.00	18%	₹ 36,000.00	₹ 2,36,000.00
	<b>Total</b>			<b>₹ 50,90,68,971.00</b>			<b>₹ 9,16,32,414.78</b>	<b>₹ 60,07,01,385.78</b>
	<b>Grand Total</b>			<b>₹ 1,97,69,66,876.91</b>			<b>₹ 29,03,76,894.88</b>	<b>₹ 2,26,73,43,771.80</b>

## Notes-

- a) This billing break up is for on account payment purpose only.
- b) The quantity of item indicated in BBU are only for billing purpose and the same shall be supplied as per finalised approved schemes/documents.
- c) PGEL to ensure supply of all items as per approved drawings/ data sheet/technical specification without any extra cost implication to SECI
- d) PGEL shall ensure that items not covered here but are required to make the equipments/systems complete in all respect for its safe and reliable, efficient and trouble free working/ operation in line with the provisions
- e) For items with UoM as Lot, Detail break-up with Qty shall be shared during revision of the BBU on detailed engineering and site execution.

## Billing Break-Up for Freight, Design, Civil &amp; Installation and Other Services - SOR 2

## Project Details

1 Project Name	
2 Address	Tarali, U.P. of Ladakh, India
3 Project Size (AC)	25 MW (AC) Solar PV Power Plant (50 MWp DC) with 20 MW / 50 MWh Battery Energy Storage System

## SCHEDULE OF RATES (SOR-2) - BESS PART (20MW/50 MWh) - Part - A

Sr.No	Description	UOM	Qty	Unit Rate	Total Basic (without Tax)	Tax (GST) Amount	Total Amount (with Tax)
1	Freight & Insurance including Loading, Unloading, Storage, Handling at Site	LS	1	₹ 70,00,000.00	₹ 70,00,000.00	18%	₹ 12,60,000.00
1.1	Freight & Insurance - Solar Modules	LS	1	₹ 30,00,000.00	₹ 30,00,000.00	18%	₹ 5,40,000.00
1.2	Freight & Insurance - Inverter - Solar	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
1.3	Freight & Insurance - Power Transformer - Solar	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
1.4	Freight & Insurance - Inverter Duty Transformer - Solar	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
1.5	Freight & Insurance - HT Panel - Solar	LS	1	₹ 20,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00
1.6	Freight & Insurance - Module Mounting Structure - Solar	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
1.7	Freight & Insurance - SCB - Solar	LS	1	₹ 20,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00
1.8	Freight & Insurance - Other Equipments	LS	1	₹ 16,90,107.00	₹ 16,90,107.00	18%	₹ 3,40,215.26
2	Testing in respect of all the Equipments Supplied and any other Services Specified in the Tender Documents						
2.1	Fencing and Main Gate Installation	LS	1	₹ 40,00,000.00	₹ 40,00,000.00	18%	₹ 7,20,000.00
2.2	NMS Installation	MWpD	50	₹ 1,60,000.00	₹ 80,00,000.00	18%	₹ 14,40,000.00
2.3	Module Installation	MWpD	50	₹ 2,00,000.00	₹ 1,00,000.00	18%	₹ 18,00,000.00
2.4	Solar Inverter/ Installation	Nos	16	₹ 1,00,000.00	₹ 16,00,000.00	18%	₹ 2,60,000.00
2.5	Inverter/Duty Transformer Installation	Nos	4	₹ 1,50,000.00	₹ 6,00,000.00	18%	₹ 1,08,000.00
2.6	Power Transformer - Solar Installation	Nos	1	₹ 5,00,000.00	₹ 5,00,000.00	18%	₹ 90,00,000.00
2.7	HT Panel Installation	Nos	208	₹ 2,403.65	₹ 510,000.00	18%	₹ 90,000.00
2.8	SCB Installation	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00
2.9	DC String Cable Installation	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00
2.10	DC Cable Installation	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00
2.11	HT cables Installation	LS	1	₹ 4,00,000.00	₹ 4,00,000.00	18%	₹ 720,000.00
2.12	SCADA and WMS Installation	LS	1	₹ 4,00,000.00	₹ 4,00,000.00	18%	₹ 720,000.00
2.13	CCTV Installation	LS	1	₹ 4,00,000.00	₹ 4,00,000.00	18%	₹ 720,000.00
2.14	Street Light Installation	LS	1	₹ 4,00,000.00	₹ 4,00,000.00	18%	₹ 720,000.00
2.15	Earthling & Lightning - Solar Installation	LS	1	₹ 1,00,000.00	₹ 1,00,000.00	18%	₹ 18,000.00
2.16	Fire Fighting Equipments	LS	1	₹ 4,90,107.00	₹ 4,90,107.00	18%	₹ 88,219.26
2.17	Testing and Commissioning - Solar Installation						
3	Civil and allied works including construction of Trenches, Module Mounting Structure, Foundations, etc. of all the Equipments Supplied.						
3.1	Fencing Piling and Main Gate Foundation	Lot	1	₹ 80,42,600.10	₹ 80,42,600.10	18%	₹ 14,47,668.02
3.2	NMS Piling - Interior	Table	2792	₹ 32,200.00	₹ 9,99,02,400.00	18%	₹ 1,61,82,432.00
3.3	NMS Piling - Exterior	Table	770	₹ 71,300.00	₹ 5,50,55,000.00	18%	₹ 99,09,900.00
3.4	LCR/ICR Foundation - Solar Installation	Lot	4	₹ 45,00,000.00	₹ 1,80,00,000.00	18%	₹ 32,40,000.00
3.5	SCB Foundation	Nos	208	₹ 11,253.10	₹ 23,40,644.80	18%	₹ 4,21,315.06
3.6	Street Light Foundation	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00
3.7	GCTV Foundation	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00
3.8	Security Cabin Foundation	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00
3.9	Drain	LS	1	₹ 20,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00
3.10	Road	Lot	1	₹ 70,00,000.00	₹ 70,00,000.00	18%	₹ 12,60,000.00

## SCHEDULE OF RATES (SOR-2) - BESS PART (20MW/50 MWh) - Part - B

Sr.No	Description	UOM	Qty	Unit Rate	Total Basic (without Tax)	Tax (GST) Amount	Total Amount (with Tax)
4	Freight & Insurance including Loading, Unloading, Storage, Handling at Site	LS	1	₹ 70,00,000.00	₹ 70,00,000.00	18%	₹ 12,60,000.00
4.1	Freight & Insurance - BESS Containers	LS	1	₹ 30,00,000.00	₹ 30,00,000.00	18%	₹ 5,40,000.00
4.2	Freight & Insurance - Inverter BESS	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
4.3	Freight & Insurance - Power Transformer - BESS	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
4.4	Freight & Insurance - Inverter Duty Transformer - BESS	LS	1	₹ 20,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00
4.5	Freight & Insurance - HT Panel BESS	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00
4.6	Freight & Insurance - Switchyard Equipments						

4.7	Freight & Insurance - Transmission Line Equipments	LS	1	₹ 20,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00	₹ 3,60,000.00
4.8	Freight & Insurance - Other Equipments	LS	1	₹ 18,90,107.00	₹ 18,90,107.00	18%	₹ 3,40,219.26	₹ 3,40,219.26
5	Design, Engineering, Installation, Fraction, Testing and Commissioning including Performance Testing in respect of all the Equipments Supplied and any other Services Specified in the Tender Documents.							
5.1	Battery - BESS - Installation	Nos	10	₹ 4,00,000.00	₹ 40,00,000.00	18%	₹ 7,20,000.00	₹ 7,20,000.00
5.2	Inverter - BESS - Installation	Nos	10	₹ 4,00,000.00	₹ 40,00,000.00	18%	₹ 7,20,000.00	₹ 7,20,000.00
5.3	Inverter Duty Transformer - BESS - Installation	Nos	5	₹ 4,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00	₹ 3,60,000.00
5.4	Power Transformer - BESS - Installation	Nos	1	₹ 5,00,000.00	₹ 5,00,000.00	18%	₹ 90,000.00	₹ 5,80,000.00
5.5	HT Switchboard Panel - BESS - Installation	Lot	1	₹ 20,00,000.00	₹ 20,00,000.00	18%	₹ 3,60,000.00	₹ 23,60,000.00
5.6	Earthing & Lightning - BESS Installation	LS	1	₹ 8,90,107.00	₹ 8,90,107.00	18%	₹ 1,60,219.26	₹ 10,50,326.26
5.7	Fencing Installation - Switchyard and BESS	LS	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00	₹ 11,80,000.00
5.8	Switchyard Equipment - Lightning Arrestor	Nos	12	₹ 1,50,000.00	₹ 18,00,000.00	18%	₹ 3,24,000.00	₹ 21,24,000.00
5.9	Switchyard Equipment - Circuit breaker	Nos	5	₹ 3,00,000.00	₹ 15,00,000.00	18%	₹ 1,70,000.00	₹ 17,70,000.00
5.10	Switchyard Equipment - Current Transformer	Nos	27	₹ 1,50,000.00	₹ 40,50,000.00	18%	₹ 7,29,000.00	₹ 47,78,000.00
5.11	Switchyard Equipment - Potential Transformer	Nos	24	₹ 1,50,000.00	₹ 36,00,000.00	18%	₹ 6,48,000.00	₹ 42,48,000.00
5.12	Switchyard Equipment - ABB Meter	Nos	4	₹ 1,00,000.00	₹ 4,00,000.00	18%	₹ 72,000.00	₹ 47,200,000.00
5.13	Switchyard Equipment - Isolation	Nos	14	₹ 2,00,000.00	₹ 28,00,000.00	18%	₹ 5,04,000.00	₹ 33,04,000.00
5.14	Switchyard Equipment - CHP Panel	Lot	1	₹ 2,00,000.00	₹ 2,00,000.00	18%	₹ 36,000.00	₹ 36,000.00
5.15	Switchyard Equipment - Balance of System	Lot	1	₹ 2,00,000.00	₹ 2,00,000.00	18%	₹ 36,000.00	₹ 36,000.00
5.16	Switchyard Equipment - Cable Levelling, Installation and Termination	Lot	1	₹ 2,00,000.00	₹ 2,00,000.00	18%	₹ 36,000.00	₹ 36,000.00
5.17	6BKV Transmission Line Installation	Lot	1	₹ 10,00,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00	₹ 11,80,000.00
5.18	Testing & Commissioning including Performance testing - BESS & SY	Lot	1	₹ 7,50,000.00	₹ 7,50,000.00	18%	₹ 1,35,000.00	₹ 8,65,000.00
6	Cost and allied work including construction of trenches, Module Mounting Structure, foundations, etc of all the Equipments Supplied.							
6.1	Main Control Room - Excavation, Foundations Columns up to Plinth & Plinth beams	LS	1	₹ 2,00,00,000.00	₹ 2,00,00,000.00	18%	₹ 36,00,000.00	₹ 2,36,00,000.00
6.2	Main Control Room - Umlar beam, Column up to Roof slab	LS	1	₹ 3,00,00,000.00	₹ 3,00,00,000.00	18%	₹ 54,00,000.00	₹ 3,54,00,000.00
6.3	Main Control Room - Roof slab	LS	1	₹ 1,00,00,000.00	₹ 1,00,00,000.00	18%	₹ 18,00,000.00	₹ 1,18,00,000.00
6.4	Main Control Room - Brickwork & Plaster	LS	1	₹ 60,00,000.00	₹ 60,00,000.00	18%	₹ 9,00,000.00	₹ 59,00,000.00
6.5	Main Control Room - Plastering, Flooring, Painting, Door, Window	LS	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00	₹ 41,90,000.00
6.6	LCR/ICL Foundations - BESS	LS	5	₹ 50,68,129.00	₹ 2,53,40,645.00	18%	₹ 45,61,316.10	₹ 2,99,01,961.10
6.7	Switchyard Equipment Foundations - Lightning Arrestor	Nos	12	₹ 10,00,000.00	₹ 1,20,00,000.00	18%	₹ 21,60,000.00	₹ 1,41,60,000.00
6.8	Switchyard Equipment Foundations - Circuit breaker	Nos	5	₹ 30,00,000.00	₹ 1,50,00,000.00	18%	₹ 27,00,000.00	₹ 17,70,000.00
6.9	Switchyard Equipment Foundations - Current Transformer	Nos	27	₹ 5,00,000.00	₹ 1,35,00,000.00	18%	₹ 24,30,000.00	₹ 15,30,000.00
6.10	Switchyard Equipment Foundations - Potential Transformer	Nos	24	₹ 5,00,000.00	₹ 1,20,00,000.00	18%	₹ 21,60,000.00	₹ 14,60,000.00
6.11	Switchyard Equipment Foundations - ABB Meter	Nos	4	₹ 2,50,000.00	₹ 10,00,000.00	18%	₹ 1,80,000.00	₹ 11,80,000.00
6.12	Switchyard Equipment Foundations - Cable trench	LS	1	₹ 30,00,000.00	₹ 30,00,000.00	18%	₹ 5,40,000.00	₹ 34,40,000.00
6.13	Switchyard Equipment Foundations - Juctular	Nos	14	₹ 5,00,000.00	₹ 70,00,000.00	18%	₹ 12,60,000.00	₹ 82,60,000.00
6.14	Switchyard Equipment Foundations - Balance of System	Lot	1	₹ 15,00,000.00	₹ 15,00,000.00	18%	₹ 2,70,000.00	₹ 17,70,000.00
6.15	6BKV Transmission Line Foundation	Lot	1	₹ 50,00,000.00	₹ 50,00,000.00	18%	₹ 9,00,000.00	₹ 59,00,000.00
6.16	Total			₹ 2,17,20,000.00	₹ 1,14,44,71,74,74.72	18%	₹ 3,88,15,42,51,74.72	₹ 1,44,44,71,74,74.72

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**Grand Total**



## Solar Energy Corporation of India Ltd., Leh - MMS Structure Bifurcation

## 2PX12 Exterior - Two Legged Module Mounting Structure Bill of Material @ Solar Energy Corporation of India Ltd., Leh

SR. NO.			ITEM DESCRIPTION & DETAIL OF WORK		NO./TABLE (no.)	LENGTH (m)
1	COLUMN	1.1	COLUMN			
		1.1.1	LONG COLUMN - C CHANNEL 150X70X25X3.15		6	3.238
		1.1.2	SHORT COLUMN - C CHANNEL 150X70X25X3.15		6	2.146
		1.2	COLUMN CONNECTOR			
2	RAFTER	1.2.1	L ANGLE IS4.40X4DX4.0		12	0.250
		2.1	RAFTER			
		2.1.1	C CHANNEL 150X50X25X2.5		6	4.000
		2.2	CLEAT ANGLE			
3	BRACING	2.2.1	LU 125X95X4.0		24	0.080
		3.1	COLUMN TO RAFTER BRACING			
		3.1.1	FRONT C CHANNEL 50X40X13X2.0		6	0.542
		3.1.2	BACK C CHANNEL 50X40X13X2.0		6	1.076
4	PURLIN	3.1.3	STAY C CHANNEL 100X60X15X2.0		3	3.187
		3.2	BRACING CONNECTOR			
		3.2.1	L ANGLE IS4.40X4DX4.0		12	0.250
		4.1	PURLIN			
5	PURLIN	4.1.1	C1 CHANNEL 150X50X20X2.0		4	5.142
		4.1.2	C2 CHANNEL 150X50X20X2.0		4	5.566
		4.1.3	C3 CHANNEL 150X50X20X2.0		4	5.142
		4.2	SAG CHANNEL			
6	PURLIN	4.2.1	C1 CHANNEL 30X30X2.0 [WITHOUT LIP]		5	3.748
		4.2.2	C2 CHANNEL 30X30X2.0 [WITHOUT LIP]		4	1.502
		4.3	PURLIN CONNECTION PLATE			
		4.3.1	P1 FLAT PLATE 230X130X4.0		8	0.004
		4.3.2	P2 FLAT PLATE 160X50X4.0		16	0.004

## 2PX12 Interior - Single Module Mounting Structure Bill of Material @ Solar Energy Corporation of India Ltd., Leh

SR. NO.			ITEM DESCRIPTION & DETAIL OF WORK		NO./TABLE (no.)	LENGTH (m)
1	COLUMN	1.1	COLUMN			
		1.1.1	C CHANNEL 200X90X25X3.15		6	2.838
		1.2	COLUMN CONNECTOR			
		1.2.1	L ANGLE IS4.40X4DX4.0		6	0.250
2	RAFTER	2.1	RAFTER			
		2.1.1	C CHANNEL 90X60X15X2.5		6	4.000
		2.2	CLEAT ANGLE			
		2.2.1	LU 100X65X4.0		24	0.080
3	BRACING	3.1	COLUMN TO RAFTER BRACING			
		3.1.1	FRONT C CHANNEL 60X40X15X2.0		6	1.620
		3.1.2	BACK C CHANNEL 70X40X15X2.0		6	2.080
		3.1.3	STAY C CHANNEL 60X50X15X2.0		3	3.000
4	PURLIN	3.2	BRACING CONNECTOR			
		3.2.1	C CHANNEL 100X40X15X2.0		6	0.450
		4.1	PURLIN			
		4.1.1	C1 CHANNEL 90X60X15X2.0		4	5.142
		4.1.2	C2 CHANNEL 90X60X15X2.0		4	5.556
		4.1.3	C3 CHANNEL 90X60X15X2.0		4	5.142
		4.2	PURLIN CONNECTION PLATE			
		4.2.1	P1 FLAT PLATE 230X90X4.0		8	0.004
		4.2.2	P2 FLAT PLATE 160X50X4.0		16	0.004
		4.3	PURLIN CONNECTION - SAG ROD			
		4.3.1	10.0 DIA ROD - 1 (100.0 mm Thread Length on both end)		10	1.498
		4.3.2	10.0 DIA ROD - 2 (100.0 mm Thread Length on both end)		5	0.980

