

Roof-Top PV Power Plant	
S.No.	Item
Solar Module	
1	Solar Module
	Solar Module
Inverter	
2	Inverter
3	RMU
Module Mounting Structure	
4	Mounting Structure
BoS	
5	Conduces
6	Earthing Strip
7	Lightening Arrester
8	Earthing Electrode
9	MC4 Connector
10	Solar DC Cable - Red
11	Solar DC Cable - Black
12	AC Cable
13	AC Cable
14	AC Cable
15	Earthing Cable
16	DCDB
17	ACDB Panel
18	Accessories
Installation & Transportation	
19	Installation
20	transportation
21	Site supervision
Discom Expanses	
22	Netmetering Expanses
23	Connectivity Charges

Detail Description	Make	Rate	Qty
325Wp, 72 cell, Polycrystalline, MNRE approved solar module with rust free frame.	Adani, Raajratna	6500	0
315Wp, 72 cell, Polycrystalline, MNRE approved solar module with rust free frame.	Adani, Raajratna	6300	16
Grid tie inverter	k Solare		1
Remote monitoring unit	k Solare		1
G.I. Hotdeep (Standard Structure)		2500	5
UPVC Conduite for DC cabling	Standard	20	15
Hot Dip GI 25x3 mm Earthing Strip	Standard	50	0
Spike type Cu LA	Standard	850	0
Earthing rod with Chemical bag & Earthing Pit cover	Standard	820	3
TUV Approved	Reputed	36	4
1CX4 sq mm Tinned Copper Flexible TUV Cable	Polycab	31	15
1CX4 sq mm Tinned Copper Flexible TUV Cable	Polycab	31	15
3C*4 Sqmm Copper Flexible Power cable 2-5KW 26A	Havells	-	12
4C*10 Sqmm Aluminum Armour Power cable 11-12KW 19A/Phase	Havells	-	
from inverter to ACDB 6Sq.mm*4Core Copper Flexible	RR	-	
1CX6 Sqmm Cu, Flexible Green cable	Standard	34	20
2 in 2 out	Smptel		1
with SPD without RYB lamp	Smptel		1
Lug, Cable gland, Clamps for codute, Dhroba nail for condute clamp, Saddle for condute pipe, PVC Grip, Cable tie, etc...	Reputed		1
installation of () kw solar rooftop power plant including submission of drawing related to it.		2500	5
		500	5
person visit on site		500	5
			1
			1

36.76		10KW				
Final Amount with GST		Qty	Unit	Unit Rate	Total	GST %
163800		0	EA	6500.00	0.00	5%
0		32	EA	6300.00	201600.00	5%
57015		1	EA	58900.00	58900.00	5%
0		0	EA	0.00	0.00	18%
23600		10	EA	2500.00	25000.00	18%
266		15	Meter	15.00	225.00	18%
0		15	Meter	50.00	750.00	18%
0		1	EA	700.00	700.00	18%
2655		3	EA	750.00	2250.00	18%
195		5	Pair	33.00	165.00	18%
732		30	Meter	31.00	930.00	18%
732		30	Meter	31.00	930.00	18%
0		0	Meter	84.31	0.00	18%
1032		10	Meter	87.42	874.20	18%
361		2	Meter	153.00	306.00	18%
614		20	Meter	26.00	520.00	18%
2832		1	EA	2400.00	2400.00	18%
2124		1	EA	1800.00	1800.00	18%
4720		1	Set	5000.00	5000.00	18%
23600		10	kW	2500.00	25000.00	18%
4000		10	EA	500.00	5000.00	0%
4000		10	EA	500.00	5000.00	0%
14160		1	EA	15000.00	15000.00	18%
11800		1	EA	10000.00	10000.00	18%
318236					362350.20	

10000	36.24		12KW			
GST Amount	Final Amount with GST		Qty	Unit	Unit Rate	Total
0	0		0	EA	6500.00	0.00
10080	211680		38	EA	6300.00	239400.00
2945	61845		1	EA	82500.00	82500.00
0	0		1	EA	0.00	0.00
4500	29500		12	KW	2500.00	30000.00
41	266		25	Meter	15.00	375.00
135	885		15	Meter	50.00	750.00
126	826		1	EA	700.00	700.00
405	2655		3	EA	750.00	2250.00
29.7	195		6	Pair	33.00	198.00
167.4	1097		30	Meter	31.00	930.00
167.4	1097		30	Meter	31.00	930.00
0	0			Meter	84.31	0.00
157.356	1032		20	Meter	87.42	1748.40
55.08	361		2	Meter	153.00	306.00
93.6	614		30	Meter	26.00	780.00
432	2832		1	EA	11500.00	11500.00
324	2124		1	EA	10600.00	10600.00
900	5900		1	Set	6000.00	6000.00
4500	29500		12	kW	2500.00	30000.00
0	5000		12	EA	500.00	6000.00
0	5000		12	EA	500.00	6000.00
2700	17700		1	EA	15000.00	15000.00
1800	11800		1	EA	10000.00	10000.00
29558	391908					455967.40

	12000	38.00		15KW		
GST %	GST Amount	Final Amount with GST		Qty	Unit	Unit Rate
5%	0	0		46	EA	6500.00
5%	11970	251370		0	EA	6300.00
5%	4125	86625		1	EA	82500.00
18%	0	0		1	EA	0.00
18%	5400	35400		15	kW	2500.00
18%	68	443		30	Meter	15.00
18%	135	885		20	Meter	50.00
18%	126	826		1	EA	700.00
18%	405	2655		3	EA	750.00
18%	35.64	234		8	Pair	33.00
18%	167.4	1097		40	Meter	31.00
18%	167.4	1097		40	Meter	31.00
18%	0	0			Meter	84.31
18%	314.712	2063		20	Meter	87.42
18%	55.08	361		2	Meter	153.00
18%	140.4	920		40	Meter	26.00
18%	2070	13570		1	EA	11500.00
18%	1908	12508		1	EA	10600.00
18%	1080	7080		1	Set	7500.00
18%	5400	35400		15	kW	2500.00
0%	0	6000		15	EA	500.00
0%	0	6000		15	EA	500.00
18%	2700	17700		1	EA	15000.00
18%	1800	11800		1	EA	10000.00
	38067	494035				

		15000	35.76			
Total	GST %	GST Amount	Final Amount with GST		Qty	Unit
299000.00	5%	14950	313950		77	EA
0.00	5%	0	0		0	EA
82500.00	5%	4125	86625		1	EA
0.00	18%	0	0		1	EA
37500.00	18%	6750	44250		25	kW
450.00	18%	81	531		30	Meter
1000.00	18%	180	1180		20	Meter
700.00	18%	126	826		1	EA
2250.00	18%	405	2655		3	EA
264.00	18%	47.52	312		14	Pair
1240.00	18%	223.2	1463		70	Meter
1240.00	18%	223.2	1463		70	Meter
0.00	18%	0	0			Meter
1748.40	18%	314.712	2063		70	Meter
306.00	18%	55.08	361		2	Meter
1040.00	18%	187.2	1227		70	Meter
11500.00	18%	2070	13570		1	EA
10600.00	18%	1908	12508		1	EA
7500.00	18%	1350	8850		1	Set
37500.00	18%	6750	44250		25	kW
7500.00	0%	0	7500		25	EA
7500.00	0%	0	7500		25	EA
15000.00	18%	2700	17700		1	EA
10000.00	18%	1800	11800		1	EA
	0					
536338.40		44246	580584			


25KW			15000	60.60
Unit Rate	Total	GST %	GST Amount	Final Amount with GST
6012.50	462962.50	5%	23148.125	486111
6300.00	0.00	5%	0	0
137500.00	137500.00	5%	6875	144375
0.00	0.00	18%	0	0
2500.00	62500.00	18%	11250	73750
15.00	450.00	18%	81	531
50.00	1000.00	18%	180	1180
700.00	700.00	18%	126	826
750.00	2250.00	18%	405	2655
33.00	462.00	18%	83.16	545
548.70	38409.00	18%	6913.62	45323
548.70	38409.00	18%	6913.62	45323
84.31	0.00	18%	0	0
87.42	6119.40	18%	1101.492	7221
153.00	306.00	18%	55.08	361
26.00	1820.00	18%	327.6	2148
18500.00	18500.00	18%	3330	21830
17600.00	17600.00	18%	3168	20768
7500.00	7500.00	18%	1350	8850
2500.00	62500.00	18%	11250	73750
500.00	12500.00	0%	0	12500
500.00	12500.00	0%	0	12500
15000.00	15000.00	18%	2700	17700
10000.00	10000.00	18%	1800	11800
		0		
	908,988		81058	990046

S.NO	Technical Specification	Specification
MAJOR EQUIPMENTS		
1	Solar Panels	325W
2	Inverter	5kw ,3PHASE
MOUNTING STRUCTURE		
3	Hot Dip Galvanized module mounting structure	High Rise structure(1000 mm to 3000mm)
4	MMT Hardware	All nutbolts should be of Stainless steel
5	Civil work foundations for Module Mounting Structure	(300X300X300)mm with (1:2:4) ratio +Along with M10x 100 Hilti Fastner with Nito Bond Chemical
CABLES & ACCESSORIES (LT/EA)		
6	DC Cable	1C X 4 SQMM copper
7	AC Cable	4C X4 SQMM copper
8	Earthing Cable for ACDB/DCDB	1C X 6 SQMM copper
ACCESSORIES		
9	MC4 Connector	Male/ Female
10	Lugs	4SQmm Pintype
		4SQmm Ring type
11	Electrical Tape	RYB, green & Black
12	Numbering Ferrules & Cable tag	A to Z & 0 to 9 (For 1CX4Sq mm DC Cable)
13	UV Cable Ties	300mm
EARTHING SYSTEM & ACCESSORIES		
14	Lightning Arrester	*Copper Bonded Lightening Arrestor *Should be at least 4ft. above panel height
	Earthing Kit	3 Earthing Pits (separate for AC and DC) Two for DC Earthing (LA + DCDB + Structure) One for AC Earthing (Inverter) * Pit Dimension 1 FtX1Ft and 3 m deep. * Earthing cap at each pit * Atleast 25kg Earthing Chemical for 1 pit.

15		*Difference Between Earthing pit shall be equal to or more than 1m * Earthing rod should be copper Bonded with 10ft length
16	Strip	25 X 3 mm AL strip
17	Saddle	Saddle for Strip
18	Screw	As Required
19	Gitti	As Required
20	Erathing Block	For mounting earthing strip to walls
CONDUIT & ACCESSORIES		
21	PVC Pipe-40mm	25mm
22	L-Bend PVC Pipe	25mm
23	Junction for PVC Pipe	25mm
24	T- Bend for PVC Pipe	25mm
25	Saddle for PVC Pipe (Conduite Holding with wall)	25mm
ACDB and DCDB Boxes		
26	AJB/DCDB	2P MCB 15A, Fuse with SPD with BOX IP65
27	ACDB	4P MCB 32A, Fuse with SPD with BOX IP65
Bi-Directional Meters		
28	Solar meter	As Required by CREST
29	Bi Directional Meter	As Required by CREST

Note Installer have to make sure no shadow on solar panels. If any, prior to installation. All final decision in case change of specification and length of wire will be taken by the client.

MAKE	UOM
T	
	Nos
	Nos
JRE	
Reputed	Lot
Reputed	Lot
Reputed	Lot
RTHING/COMM.)	
Polycab	Lot
Polycab	Lot
Polycab	Lot
Reputed	Lot
Reputed	Lot
Reputed	Lot
Reputed	Each
Reputed	Lot
Reputed	Pack
ESSORIES	
Reputed	Nos
Reputed	Lot

	Reputed	Lot
	Reputed	Lot
	Reputed	Lot
	Reputed	Lot
	Reputed	Lot
RIES		
	Reputed	Lot
	Reputed	Lot
	Reputed	Lot
	Reputed	Lot
	Reputed	Lot
DX		
	Fuse- Schinder	Nos
		
	SPD- Phoenix Contact or Equivalent	
	Polycarbonate Matrial	Nos
er		
	Secure/sumeru verde	Nos
	Secure	Nos

approval of HAARTEK
will be taken Hartek

Quantity	Unit Rate	Amount	GST	Amount with GST
16	6500	104000	5%	109,200
1	32000	32000	5%	33,600
1	12500	12500	18%	14,750
1				
1				
1				
1				
1	620	620	18%	732
1	1700	1700	18%	2,006
1	600	600	18%	708
1	140	140	18%	165
1	100	100	18%	118
1	100	100	18%	118
1	100	100	18%	118
1	250	250	18%	295
1	1850	1850	18%	2,183
1	3250	3250	18%	3,835

1	1250	1250	18%	1,475
1	200	200	18%	236
1	100	100	18%	118
1	250	250	18%	295
1	100	100	18%	118
1	500	500	18%	590
1	500	500	18%	590
1	500	500	18%	590
1	500	500	18%	590
1	100	100	18%	118
1	5400	5400	18%	6,372
1	5800	5800	18%	6,844
1	1800	1800	18%	2,124
1	2400	2400	18%	2,832

176,710

190,838 38,168