TOTAL BILL OF MATERIAL_GIZ_INDIAONE

S.No.	Description of Item	Quantity	Specification	Delivery Status
	Solar Block			
1	STRUCTURAL STEEL FOR REFLECTOR	11 Metric Tonne	Square Hollow Section 72mm x 72mm x 4mm IS 4923, YST 310	Delivered
2	STRUCTURAL STEEL FOR REFLECTOR	46 Metric Tonne	Square Hollow Section 72mm x 72mm x 3.2mm IS 4923, YST 310	Delivered
3	STRUCTURAL STEEL FOR REFLECTOR	7 Metric Tonne	Square Hollow Section 60mm x 60mm x 3.2mm IS 4923, YST 310	Delivered
4	STRUCTURAL STEEL FOR REFLECTOR	4 Metric Tonne	Square Hollow Section 60mm x 60mm x 4mm IS 4923, YST 310	Delivered
5	STRUCTURAL STEEL FOR REFLECTOR	54 Metric Tonne	Square Hollow Section 50mm x 50mm x 3.6mm IS 4923, YST 310	Delivered
6	STRUCTURAL STEEL FOR REFLECTOR	14 Metric Tonne	Square Hollow Section 40mm x 40mm x 4mm IS 4923, YST 310	Delivered
7	STRUCTURAL STEEL FOR REFLECTOR	13 Metric Tonne	Square Hollow Section 40mm x 40mm x 2.6mm IS 4923, YST 310	Delivered
8	STRUCTURAL STEEL FOR REFLECTOR	2 Metric Tonne	Square Hollow Section 25mm x 25mm x 2mm IS 4923, YST 310	Delivered
9	STRUCTURAL STEEL FOR REFLECTOR	24 Metric Tonne	Square Hollow Section 132mm x 132mm x 5.4mm IS 4923, YST 310	Delivered
10	STRUCTURAL STEEL FOR REFLECTOR	146 Metric Tonne	Square Hollow Section 100mm x 100mm x 4mm IS 4923, YST 310	Delivered
11	SOLID STRUCTURAL STEEL FOR REFLECTOR	11 Metric Tonne	MS ROUND ROD 150MM DIA. IS 2062,GRADE:Fe410WA	Delivered
12	SOLID STRUCTURAL STEEL FOR REFLECTOR	1 Metric Tonne	MS ROUND ROD 120mm diameter IS 2062,GRADE:Fe410WA	Delivered
13	SOLID STRUCTURAL STEEL FOR REFLECTOR	1 Metric Tonne	MS ROUND ROD 90mm diameter IS 2062,GRADE:Fe410WA	Delivered
14	SOLID STRUCTURAL STEEL FOR REFLECTOR	3 Metric Tonne	MS ROUND ROD 80mm diameter IS 2062,GRADE:Fe410WA	Delivered
15	SOLID STRUCTURAL STEEL FOR REFLECTOR	4 Metric Tonne	MS ROUND ROD 60mm diameter IS 2062,GRADE:Fe410WA	Delivered
16	SOLID STRUCTURAL STEEL FOR REFLECTOR	1 Metric Tonne	MS ROUND ROD 50mm diameter IS 2062,GRADE:Fe410WA	Delivered
17	SOLID STRUCTURAL STEEL FOR REFLECTOR	1 Metric Tonne	MS ROUND ROD Polished 42mm diameter IS 2062,GRADE:Fe410WA	Delivered
18	SOLID STRUCTURAL STEEL FOR REFLECTOR	1 Metric Tonne	MS SQUARE ROD 16mm diameter IS 2062,GRADE:Fe410WA	Delivered
19	SOLID STRUCTURAL STEEL FOR REFLECTOR	2 Metric Tonne	MS SQUARE ROD 62mm diameter IS 2062,GRADE:Fe410WA	Delivered
20	SOLID STRUCTURAL STEEL FOR REFLECTOR	3 Metric Tonne	MS FLAT 100mm X 16mm IS 2062,GRADE:Fe410WA	Delivered
21	SOLID STRUCTURAL STEEL FOR REFLECTOR	4 Metric Tonne	MS FLAT 100mm X 12mm IS 2062,GRADE:Fe410WA	Delivered
22	SOLID STRUCTURAL STEEL FOR REFLECTOR	4 Metric Tonne	MS FLAT 100mm X 10mm IS 2062,GRADE:Fe410WA	Delivered
23	SOLID STRUCTURAL STEEL FOR REFLECTOR	1 Metric Tonne	MS FLAT 75mm X 12mm IS 2062,GRADE:Fe410WA	Delivered
24	SOLID STRUCTURAL STEEL FOR REFLECTOR	2 Metric Tonne	MS FLAT 50mm X 12mm IS 2062,GRADE:Fe410WA	Delivered
25	SOLID STRUCTURAL STEEL FOR REFLECTOR	5 Metric Tonne	MS ANGLE 50mm X 6mm IS 2062,GRADE:Fe410WA	Delivered

26	SOLID STRUCTURAL STEEL FOR REFLECTOR	33 Metric Tonne	MS PLATE 20mm (thickness) X 1.25m(width) X 6.3m(length) IS 2062,GRADE:E250	Delivered
27	SOLID STRUCTURAL STEEL FOR REFLECTOR	12 Metric Tonne	MS PLATE 25mm (thickness) X 1.25m(width) X 6.3m(length) IS 2062,GRADE:E250	Delivered
28	SOLID STRUCTURAL STEEL FOR REFLECTOR	9 Metric Tonne	MS PLATE 16mm (thickness) X 1.25m(width) X 6.3m(length) IS 2062,GRADE:E250	Delivered
29	SOLID STRUCTURAL STEEL FOR REFLECTOR	26 Metric Tonne	MS PLATE 12mm (thickness) X 1.25m(width) X 6.3m(length) IS 2062,GRADE:E250	Delivered
30	SOLID STRUCTURAL STEEL FOR REFLECTOR STA	7 Metric Tonne	TMT REBAR 8mm (diameter) IS 1786 Grade: Fe 415 or higher	Delivered
31	SOLID STRUCTURAL STEEL FOR REFLECTOR STA	16 Metric Tonne	TMT REBAR 10mm (diameter) IS 1786 Grade: Fe 415 or higher	Delivered
32	SOLID STRUCTURAL STEEL FOR REFLECTOR STA	24 Metric Tonne	TMT REBAR 12mm (diameter) IS 1786 Grade: Fe 415 or higher	Delivered
33	Industrial Paint	2000 Ltrs	(Base Agent + Hardener- dARK Grey) PRIMER COAT Anticorrosive, two-pack, surface- tolerant, high solids epoxy mastic coating (Comp A) with standard Hardener (Comp. B) for steel structures	Delivered
34	Industrial Paint	2000 Ltrs	(Base Agent + Hardener- Light Grey) PRIMER COAT Anticorrosive, two-pack, surface- tolerant, high solids epoxy mastic coating (Comp A) with standard Hardener (Comp. B) for steel structures	Delivered
35	Industrial Paint	1200 Ltrs	PRIMER COAT (Thinner) Anticorrosive, two-pack, surface- tolerant, high solids epoxy mastic coating (Comp A) with standard Hardener (Comp. B) for steel structures	Delivered
36	Industrial Paint	2500 Ltrs	SHOP PRIMER COAT/RED-OXIDE COAT (Base Agent + Hardener) Two-pack epoxy based quick drying primer	Delivered
37	Industrial Paint	1000 Ltrs	SHOP PRIMER COAT/RED-OXIDE COAT (Thinner) Two-pack epoxy based quick drying primer	Delivered
38	Industrial Paint	5500 Ltrs	POLYURETHANE TOP COAT (Base Agent + Hardener) A two-pack high solid, aliphatic polyurethane topcoat with excellent gloss and colour retention; Color - yellow	Delivered
39	CAST IRON SHOTS FOR RECEIVER	200 Metric Tonne	Cast Iron Shots of sizes(0.3mm to 2.0mm) Density: 7.0-7.5g/cubic centimeters Chemical composition: Carbon- 0.6-1.25% Manganese- 1.25% max Silicon- 0.2-1.10% Sulphur- 0.05% max Phosphorous-0.0	
40	INSULATION MATERIAL	2000 Mtrs	Sectional Pipe Insulation - LIGHT RESIN BONDED(LRB) of 144 kg/cum density, with 25 NB pipe size and 60mm thickness, in spool length as per manufacturer supply as per IS 9842:1994 or ASTM C 547	
41	INSULATION MATERIAL	6200 Mtrs	Sectional Pipe Insulation - LIGHT RESIN BONDED(LRB) of 144 kg/cum density, with 25 NB pipe size and 75mm thickness, in spool length as per manufacturer supply as per IS 9842:1994 or ASTM C 547	

42	INSULATION MATERIAL	2200 Mtrs	Sectional Pipe Insulation - LIGHT RESIN BONDED(LRB) of 144 kg/cum density, with 25 NB pipe size and 120mm thickness, in spool length as per manufacturer supply as per IS 9842:1994 or ASTM C 547	
43	INSULATION MATERIAL	500 Mtrs	Sectional Pipe Insulation - LIGHT RESIN BONDED(LRB) of 144 kg/cum density, with 100 NB pipe size and 100mm thickness, in spool length as per manufacturer supply as per IS 9842:1994 or ASTM C 547	
44	INSULATION MATERIAL	900 Mtrs	Sectional Pipe Insulation - LIGHT RESIN BONDED(LRB) of 144 kg/cum density, with 50 NB pipe size and 40mm thickness, in spool length as per manufacturer supply as per IS 9842:1994 or ASTM C 547	
45	INSULATION MATERIAL	10000 Kg	Aluminum Sheet of 22 gauge thickness	
46	INSULATION MATERIAL	300 Kg	G.I Wire 0.5 mm thickness	
47	INSULATION MATERIAL	500000 Nos	STEEL SCREWS (Hardware)	
48	POWER CABLES	22000 Mtrs	Multistrand Single core COPPER PVC insulated 1.5 sq mm (RED) AS PER IS 694 and other applicable standards	
49	POWER CABLES	22000 Mtrs	Multistrand Single core COPPER PVC insulated 1.5 sq mm (BLACK) AS PER IS 694 and other applicable standards	
50	POWER CABLES	11000 Mtrs	Multistrand Single core COPPER PVC insulated 1.5 sq mm (GREEN) AS PER IS 694 and other applicable standards	
51	POWER CABLES	16000 Mtrs	Multistrand Single core COPPER PVC insulated 2.5 sq mm (RED) AS PER IS 694 and other applicable standards	
52	POWER CABLES	16000 Mtrs	Multistrand Single core COPPER PVC insulated 2.5 sq mm (BLACK) AS PER IS 694 and other applicable standards	
53	POWER CABLES	500 Mtrs	Multistrand Single core COPPER PVC insulated 2.5 sq mm (GREEN) AS PER IS 694 and other applicable standards	
54	POWER CABLES	10500 Mtrs	Multistrand Single core COPPER PVC insulated 4.0 sq mm (YELLOW) AS PER IS 694 and other applicable standards	
55	POWER CABLES	10500 Mtrs	Multistrand Single core COPPER PVC insulated 4.0 sq mm (BLUE) AS PER IS 694 and other applicable standards	
56	POWER CABLES	400 Mtrs	Multistrand Single core COPPER PVC insulated 6.0 sq mm (RED) AS PER IS 694 and other applicable standards	
57	POWER CABLES	200 Mtrs	Multistrand Single core COPPER PVC insulated 6.0 sq mm (YELLOW) AS PER IS 694 and other applicable standards	
58	POWER CABLES	200 Mtrs	Multistrand Single core COPPER PVC insulated 6.0 sq mm (BLUE) AS PER IS 694 and other applicable standards	
59	POWER CABLES	400 Mtrs	Multistrand Single core COPPER PVC insulated 6.0 sq mm (BLACK) AS PER IS 694 and other applicable standards	
60	POWER CABLES	350 Mtrs	1100 V grade, ALUMINIUM conductor XLPE insulted Armoured cables: 4.0 C x 120 mm sq. as per IS 7098 and other applicable standards	

61	POWER CABLES	350 Mtrs	1100 V grade, ALUMINIUM conductor XLPE insulted Armoured cables: 4 C x 16 mm sq. as per IS 7098 and other applicable standards	
62	POWER CABLES	450 Mtrs	1100 V grade, ALUMINIUM conductor XLPE insulted Armoured cables: 4.0 C x 35 mm sq. as per IS 7098 and other applicable standards	
63	CONTROL CABLES	8000 Mtrs	Unshielded Multistrand (7/0.3mm) twisted pair cable (two pair), flexible, annealed tinned COPPER wire 0.5 sq mm. conforming to BS 5308 Part 2 and other applicable standards	
64	SEAMLESS FERRITIC ALLOY PIPE	13500 Mtrs	NB-25mm; SCH-40; OD- 33.4mm; Thickness:3.38mm; Pressure(g) 50 kg/sq.cm; hydraulic pressure(g)65 kg/sq cm Pipe Standard: ASTM A335 P11 with test certificate IBR (2011A SEC II PART A) with 100% PMI	
65	SEAMLESS CARBON STEEL PIPE	27500 Mtrs	NB-25mm; SCH-40; OD- 33.4mm; Thickness:3.38mm; Pressure(g) 50 kg/sq.cm; hydraulic pressure(g)65 kg/sq cm Pipe Standard: ASTM A106 grade B with test certificate IBR (2011A SEC II PART A)	
66	CARBON STEEL PIPE	450 Mtrs	NB-40mm; SCH-40; OD- 48.3mm; Thickness:3.68mm; Pressure(g) 2 kg/sq.cm; hydraulic pressure(g)3 kg/sq cm Pipe Standard: ASTM A106 grade B	
67	CARBON STEEL PIPE	800 Mtrs	NB-50mm; SCH-40; OD- 60.3mm; Thickness:3.91mm; Pressure(g) 2 kg/sq.cm; hydraulic pressure(g)3 kg/sq cm Pipe Standard: ASTM A106 grade B or equivalent standard	
68	SEAMLESS FERRITIC ALLOY PIPE	425 Mtrs	NB-100mm; SCH-40; OD- 114.3mm; Thickness:6.02mm; Pressure(g) 50 kg/sq.cm; hydraulic pressure(g)65 kg/sq cm Pipe Standard: ASTM A335 P11 with test certificate IBR or following equivalent standard	
69	GATE VALVE	35 Nos	NPS 40mm	
70	GATE VALVE	10 Nos	NPS 50mm	
71	NON RETURN VALVE-LIFT CHECK VALVE	35 Nos	NPS 25mm	
72	Y TYPE WATER STRAINERS	35 Nos	NPS 40mm	
73	NON RETURN VALVE-LIFT CHECK VALVE	35 Nos	NPS 25mm, IBR certified	
74	SAFETY VALVE OPEN BONNET ANGLE TYPE	35 Nos	NPS 25mm, IBR Certified	
75	NON RETURN VALVE-LIFT CHECK VALVE	1 Nos	NPS 80mm; IBR certified	
76	GLOBE VALVE	1 Nos	NPS 80mm; IBR certified	
77	Y TYPE STEAM STRAINERS	2 Nos	NPS 80mm, IBR certified	
78	STEAM TRAPS	18 Nos	NPS 25mm; IBR Certified	
79	NON RETURN VALVE-LIFT CHECK VALVE	1 Nos	NPS 100mm; IBR certified	
80	GLOBE VALVE	1 Nos	NPS 100mm; IBR certified	
81	SAFETY VALVE OPEN BONNET ANGLE TYPE	5 Nos	NPS 25mm; IBR certified	
82	Y TYPE STEAM STRAINERS	1 Nos	NPS 100mm; IBR certified	
83	PRESSURE GAUGE	5 Nos	NPS 4 inch dial; Steam application IBR	
84	PRESSURE GAUGE	32 Nos	NPS 4 inch dial; Water application	
85	REDUCER TEE	32 Nos	NPS 50mm to 40mm; Non IBR certified	
86	LONG ELBOW	42 Nos	NPS 40 mm; Non IBR certified	

87	FLEXIBLE HOSE	32 Nos	NPS 25mm; Non IBR Certified	
88	CAST IRON RECEIVERS- THERMAL STORAGE	770 Nos	CAST IRON MATERIAL BLOCK as per drawing; Weight per receiver: 2.5 Metric Tonnes; Raw material:Pig Iron Ingots and/or Scrap;Grade:FG 200; Casting Standard:IS 210; Chemical composition Carbon:3.3%-3.5%;	
89	Industrial Paint	2200 Ltrs	POLYURETHANE TOP COAT (Thinner) A two-pack high solid, aliphatic polyurethane topcoat with excellent gloss and colour retention;	Delivered
90	INSULATION MATERIAL	300 Mtrs	Sectional Pipe Insulation - LIGHT RESIN BONDED(LRB) of 144 kg/cum density, with 80 NB pipe size and 100mm thickness, in spool length as per manufacturer supply as per IS 9842:1994 or ASTM C 547	
91	INSULATION MATERIAL	2000 Sq. Mtr	LIGHT RESIN BONDED Insulation mattresses of 100 kg/m3 density and 50 mm thickness with GI wire mesh as per IS 8183:1993 or ASTM C 592	
92	INSULATION MATERIAL	2000 Sq. Mtr	LIGHT RESIN BONDED Insulation mattresses of 100 kg/m3 density and 75 mm thickness with GI wire mesh as per IS 8183:1993 or ASTM C 592	
93	INSULATION MATERIAL	1100 Sq. Mtr	LIGHT RESIN BONDED Insulation mattresses of 100 kg/m3 density and 100 mm thickness with GI wire mesh as per IS 8183:1993 or ASTM C 592	
94	SEAMLESS FERRITIC ALLOY PIPE	275 Mtrs	NB-80mm; SCH-40; OD- 88.9mm; Thickness:3.91mm; Pressure(g) 50 kg/sq.cm; hydraulic pressure(g)65 kg/sq cm Pipe Standard: ASTM A335 P11 with test certificate IBR or following equivalent standard	
95	GLOBE VALVE	35 Nos	NPS 25mm; IBR certified	