

**List of hand tools, baisc equipmnet for DTP, Regular and SDP program
JWPTI/Masonry. Contact Mr. Ganga Ram Darjee, HoD @ 77871220 for any clarification**

SI No	Description	Specification	Unit	Rate	Remark
1	Trowel big size	Premium quality rounded shape with handle TATA/Equivalent	No		
2	Trowel medium size	Premium quality rounded shape with handle TATA/Equivalent	No		
3	Trowel small size	Premium quality rounded shape with handle TATA/Equivalent	No		
4	Shovel	Premium quality rounded shape with handle TATA/Equivalent	No		
5	Spirit level	1m Aluminum Premium quality	No		
6	Plumb bob	Premium quality	No		
7	Brick hammer	Premium quality with wooden handle TATA/Equivalent	No		
8	Hack saw frame	Ludhra/Equivalent	No		
9	Concrete Cube mold	Premium quality	No		
10	Mason Try square	1m long Premium quality	No		
11	Steel float	8" with handle	No		
12	Cross line laser	DEWALT, DW088K-XJ	No		
13	High speed cutter portable Machine	Makita, LW1400	No		
14	Tile Cutting Machines	Makita, 1250 W motor, delivers 12000 RPM. Cuts up to 40 mm (1 9/16 inch)	No		
15	Potable concrete vibrator	Single phase, 220V hand-held concrete vibrator 1-4M vibrating spear industrial portable plug-in concrete vibrator	No		

JWPTI/Fitter. Contact Mr. Tshering Tenzin, Offtg.HoD, @ 77395110 for any clarification

16	Face Milling Cutter	Cutting Dia.50mm	No		
17	Face milling Cutter	Cutting Dia.60mm	No		
18	Face Milling Cutter	Cutting dia.80mm	No		
19	Face Milling Cutter	cutting dia.100mm	No		
20	side milling cutter	Nos. of blade 12, cutting dia.40mm	No		
21	side milling cutter	Nos. of blade 12, cutting dia.50mm	No		
22	side milling cutter	Nos. of blade 12, cutting dia.60mm	No		

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23	side milling cutter	Nos. of blade 12, cutting dia.100mm	No		
24	T-slot Cutter	Nos. of teeth 12, cutting dia.500	No		
25	T-slot Cutter	Nos. of teeth 12, cutting dia.500	No		
26	Gear cutter	40mm	No		
27	Gear cutter	60mm	No		
28	Gear cutter	80mm	No		
29	collect chuck	work holding dia.6-12mm	No		
30	collect chuck	work holding dia.8-16mm	No		
31	Nibbler shear	Makita (JS3201)/equivalent Continuous rating input :710W Capacity :Steel up to 400N/ mm ² : 3.2 mm Steel up to 600 N/mm ² : 2.5 mm Steel up to 800 N/mm ² : 1.5 mm Aluminum up to 200 N/mm ² : 4.0 mm Min. cutting radius :50 mm (2") Strokes Per Minute (SPM) :1,600Dimensions (L x W x H) :213x90x239 mm (8- 3/8"x3-1/2"x9-3/8") Net weight :3.4 kg (7.5 lbs.) Power supply cord :2.5 m (8.2 ft)	No		

JWPTI/Welding. Contact Mr. Tshering Tenzin, Offtg.HoD, @ 77395110 for any clarification

32	Hand Shearing Machine	Midium duty	No		
33	Cold chisel set	10-25blade width*250mm length, stainley/Equivalent	No		
34	Hot chisel set	8-16mm blade width*200mm length, stainley /Equivalent	No		
35	Straight peen hammer	750gm best quality	No		
36	Tong	metal pick up Tong for forging, best quality	No		
37	Center punch matel	Best qaulity	No		
38	Heating Ovan for Forging	(BECMA)FORGE High quality SS body	No		
39	Blower for black smith	Single phase electric oporated, High quality	No		

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40	Air Compressor	3 HP Comptech Air Cooled Piston Air Compressor, Brand: Comptech Size of receiver: 150 L Power source: AC 3 phase Number of compression stages: 2 stages HP: 3HP Number of cylinders:2	No		
41	Linisher Sanding Grinding Machine	Size of grinding wheel: 150x20x12.7mm Size of abrasive belt: 50x686mm Rated input power: 450W Rated output power: 240W no-load speed: 2950r/min Rated voltage: 220V	No		
42	Grinding Machine	Pedestal 3 phase, BOSCH/Equivalent	No		
43	High speed cutter	BOSCH GCO14-24J/Equivalent	No		
44	Angle grinder	Makita GA4030 100mm Angle Grinder/Equivalent	No		
45	Adjustable spanner	8 inch. long Jhalani/Equvelent	No		
46	Adjustable wrench	12 inch Taparia/Equivalent	No		
47	Chisel (Flat) with handle	12 inches Taparia equivalent premium quality with wooden handle	No		
48	Drilling Machine	concrete breaking machine Bosch/makita /Equivalent single phase	No		
49	Extension Cable Drum 25 M	230V single phase cable, Premium quality with wooden handle TATA/Equivalent	No		
50	GI Pipe Cutter	15-25mm Ridgid	No		
51	Laser Distance Measure	Measuring Range 0.2-30Mts,NW 0.09kg makita /Equivalent	No		
52	laser Alignment tools (Rechargeable)	sk105d makita /Equivalent	No		
53	Long nose plier	Size 7 inches Taperia/Equivalent	No		
54	Pipe wrench	12 inch Taparia/Equivalent	No		
55	Pipe wrench	14 inch makita /Equivalent	No		
56	Pipe wrench	18 inch Taparia/Equivalent	No		
57	Plastic reamer	1/2" to 1"	No		

JWPTI/Carpentry. Contact Mr. Lekey Dhendup, HoD, @ 77393555 for any clarification

SI No	Description	Specification	Unit	Rate	Remark
58	Feeders (Spindle moulder machine)	Formula feed 38 (Rollers No. 3, Feed speed m/min FPM 2/4/5,5/7/11/13/16,5/33 6.6/13/18/23/36/42.7/54/108 .3, Rollers diameter mm 120, Rollers width mm 60, Rollers excursion mm 18, Three-phase motors power kW/Hz 0,75 (50))	No		
59	Portable hand drilling machine	Module no. GBH 2-26 RE, model name - Rotary hammer, chuck size - 26 mm, torque - 60Nm, Chuck types - keyless SDS, number of speed - 2, no load speed - 0-900 rpm, BPM range - 0-4000 bpm, vibration measurement - 6m/sec,sq, handle type - pistol grip, max. capacity in wood - 30 mm, max. capacity in concrete - 26 mm, max. capacity in steel - 13 mm.BOSCH/Equivalent	No		
60	Cordless drilling machine	GSB 180-LI Professional, Torque (soft/hard/max) 21/54/- Nm, No-load speed (1st gear / 2nd gear) 0 - 450 / 0 - 1700 rpm, Battery type Lithium-ion, Max. impact rate 0 bpm, Battery voltage 18 V, Torque settings 20+2, Max. drilling diameter in wood 35 mm, Max. drilling diameter in steel 10 mm, Max. drilling diameter in masonry 8 mm BOSCH/Equivalent	No		
61	Disc sander machine	GWS 600 Wheel Dia 100 mm Angle Grinder, Speed (RPM) : 11000 RPM, Power Input voltage : 230V, Power Input : 670 W, Product Accessories : Guard and side handle.	No		

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62	Circular saw machine Portable	Blade materilas stainless steel, rated wattage -2050 W, rated amperage-9a, saw type circular saw. Cutting lehgt 120 mm, Cutting depth 85 mm, bevel cut 45 degree, blade diameter 23.5 cm,maximum blade speed -3500 rpm all complete sets.	No		
63	Planner machine portable	GHO 26 - 82 BOSCH/Equivalent	No		
64	Router machine portable	POF 1400, ACE router BOSCH/Equivalent	No		
65	Electric Chain Saw	Makita/ Equivalent (UC4041A) Guide Bar Length :400 mm (16") Saw chain :Pitch : 3/8" Gauge: 1.1 mm (0.043") / 1.3 mm (0.050") Sound Pressure Level :90.3 dB(A)Sound Power Level :101.3 dB(A) Vibration Level:4.7 m/s ² Dimensions (L x W x H) : 455x245x200 mm (17-7/8"x9-5/8"x7-7/8") Net weight :4.7 kg (10.5 lbs.)	No		
66	Jig saw machine portable	BOSCH GST 150 BCE PROFESSIONAL JIGSAW, 780W, 240V, 3100SPM, UK PLUG BOSCH/Equivalent	No		
67	Compound mitre saw portable	Bosch GCM800SJ Corded Mitre Saw, 110V BOSCH/Equivalent	No		
68	Thicknesser Machine	spindle speed =6500rpm feeding speed = 6-8m/min max working width = 630mm working thickness = 3-180mm min working length = 250mm motor power =5.5kw overall dimensions =800*1060*1250mm	No		
69	Mobile dust collector double bags	Micron rating of fabric filter bag – DC 42 (30), Air suction capacity – 3000, Motor-3 Ø – 4 Hose pipes of three holes @ 50 meter each	Set		
70	Wood Working Chiesel	5 mm	No		
71	Wood Working Chiesel	6mm	No		
72	Wood Working Chiesel	10 mm	No		
73	Wood Working Chiesel	11 mm	No		
74	Wood Working Chiesel	12 mm	No		
75	Wood Working Chiesel	16 mm	No		

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76	Wood Working Chiesel	19 mm	No		
77	Wood Working Chiesel	25 mm	No		
78	Hand saw (Cross cut) ready made	CROSS-CUT "X-CUT" WOOD SAW 550MM 20-504-22 Stanley/equivalent	No		
79	Balpin Hmmer 250 Gram	Stubby claw hammer with manetic nails starter	No		
80	Nail pullar	Steel head 15" heavey duty flate pry bar	No		
81	Tool box	Dewalt toolsabox, top DWST17807 or equivalent	No		
82	Saw setting plier	1080x720mm	No		
83	Combination plier	Taparia/equivalent	No		
84	Clow Hammer 250 Gram	STHT51454 16 oz. wooden handle nailing hammer Stanley/equivalent	No		
85	Measuring Tape	Stanley Tylon, Tape Length - 5m, Tape Width - 3mm, Packing Type - Box Stanley/equivalent	No		
86	Try Square	ten inch STANLEY No. 20 Try Square - 75794	No		
87	Trying plane	Stanley no. 7 try plane	No		
88	Sharpening stone	AHNR - 8 inches long (1000x6000) grades	No		

JWPTI/Power. Contact Mr. Karma Chogyel, HoD, @ 77211082 for any clarification

80	Screw driver sets	It contains 1/8"(3mm) Standard Bar, 3/16"(5mm) Standard Bar, 1/4"(6mm) Standard Bar, 0 Pt Phillips Bar, 1 Pt Phillips Bar, 2 Pt Phillips Bar, 1 Tack Puller, 1 Brad Awl, 1 Hook Driver	No		
90	Industrial side plug	16A,240V,5 pin waterproof male,Legrand 16A,240V,3 pin waterproof male and male,Legrand 32, 415V,waterproof male Legrand 32, 415V,waterproof male Legrand	No		
		Solar panel momoFL-M-160 Battery gel 150AH,12 V FL-G-150AH LED Light FL-U2-40W,20A Solar charge controller Straight pole ^M,with 3mm thickness			

SI No	Description	Specification	Unit	Rate	Remark
91	Solar Street lighting system	Brackets for 2pcs of 160W solar panel	No		
		Battery box for 1pc of 150AH battery			
		Arm 1M Long ,diaameter 50mm			
		Foundation Anchor Bolt			
		Foundation Anchor bolt			
		Flexiable connection sleeve			
		Cable 2*4mm 10m/set			
92	Solar PV module mounting structure	Solar PV module mounting structure made of MS 80 micron, Hot Dip Galvanized (angle/tubular) alumiium painted to install 15 kW capacity SPV modules on existing roof top (Bidders are instructed to inspect the site before submission of bids); puncturing of roof is allowed, load is 50-100 m from the site, control room will be at suitable poits	No		
93	Power Conditioning Unit (PCU)	Power Conditioning Unit (PCU): 20 kVA, 120/240 V DC, 400 V VAC, three phase, 50 Hz, pure sine wave output and >85% efficiency; should have provision to connect to LAN and laptop to access the data globally with required software/driver. Bidders have to demonstrate and train the staff to monitor through LAN.	No		
94	Battery	Deep Cycle Low Maintenance Batteries (Tubular Gel type), 12 V, 200 Ah @ C20 inlcuding mounting structure made of galvanised Iron (angle/tubular). The base of the frame should have lockable wheels.	No		
95	Cable	Cables: Copper as per IS standard and size subject to approval of the client. All cables to be inserted through PVC pipe if inhouse and HDPE pipe if exposed.	No		

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96	Wall Bracket fan	240V,20"	No		
97	Table fan	3 blade,40MM 240V	No		
98	Infrared camera	Fluke Ti480 PRO Infrared Camera	No		
99	Digital multimeter	Fluke 87V MAX True-rms Digital Multimeter,Withstands drops (up to 4 m or 13 ft) Waterproof, dustproof IP67 case,Premium test leads operating temperature range: - 40°C (for up to 20 minutes) to +55°C.	No		
100	Insulation tester	Fluke 1555 FC 10 kV Insulation Tester,Remote test configurations, starts and stops Real-time trending, Strong reporting tool	No		
101	Battery Analyzer	Fluke 500 Series Battery Analyzer,Takes key measurements, such as internal battery resistance, DC voltage and temperature,Sequence measurement mode, Comprehensive trend analysis	No		
102	Solar Street lighting system	Solar panel momoFL-M-160 Battery gel 150AH,12 V FL-G-150AH LED Light FL-U2-40W,20A Solar charge controller Straight pole ^M,with 3mm thickness Brackets for 2pcs of 160W solar panel Battery box for 1pc of 150AH battery Arm 1M Long ,diaiameter 50mm Foundation Anchor Bolt Foundation Anchor bolt Flexiable connection sleeve Cable 2*4mm 10m/set	No		

SI No	Description	Specification	Unit	Rate	Remark
103	Digital multimeter	Fluke 87V MAX True-rms Digital Multimeter,Withstands drops (up to 4 m or 13 ft) Waterproof, dustproof IP67 case,Premium test leads operating temperature range: - 40°C (for up to 20 minutes) to +55°C.	No		
104	Battery Analyzer	Fluke 500 Series Battery Analyzer,Takes key measurements, such as internal battery resistance, DC voltage and temperature,Sequence measurement mode, Comprehensive trend analysis	No		
105	Battery	Deep Cycle Low Maintenance Batteries (Tubular Gel type), 12 V, 200 Ah @ C20 including mounting structure made of galvanised Iron (angle/tubular). The base of the frame should have lockable wheels.	No		
106	PV Solar charge controller	12-24V,30A	No		