

**Lot 1 - Machineries**

Sl. No.	Description of Machineries	Preferred Brands	Unit	Qty	Offered Country of Origin and Brand	Unit Price DDP (Nu.)	Total Price DDP (Nu.)
1	Supply, installation and commissioning of HT Coil Winding machine (Semi-Automatic , Coil Diameter: Not less than 450 mm , Coil length: Not less than 400 mm, Wire size : At least 0.1 mm to 3.6 mm of Cu (Copper), Controller : PLC based control (Siemens/Fuji.)	Preferred brand/Equivalent (Synthesis/ Whiteegg/Uday Enterprises)	SET	2			
2	Supply, installation and commissioning of Transformer Oil filter machine (Flow of oil (liter/Hour): 600 LPH, Neutralization Value: <0.1 mg of KOH/gram, Moisture content: 50-100PPM to <5PPM, Gas content: Up to < 0.05% by volume.)	Preferred brand/Equivalent (AR Engineering SATARA/Kristori)	SET	1			
3	Supply, installation and commissioning of Band saw machine (Round Cutting: 280mm, Square Cutting: 280 x 280mm, Blade Size: 2800 X 27 X 0.9mm, Blade Speed: 27.45.69m-min.)	Preferred brand/Equivalent (Bhavya machine tools/Multicut Machine Tools)	SET	1			
Supply and Delivery of the following items:							
4	Arc welding machine (Mains Supply V/Ph, Hz: 400 ±15% / 3, 50, Input Power (Max), KVA: 16, Permitted Load at 60% Duty Cycle, A: 400, Permitted Load at 100% Duty Cycle, A: 310, Current Range, A: 60-400)	Preferred brand/Equivalent (ESAB/LINCOLN/MILLER)	SET	3			
5	MIG welding machine (Mains Supply, V/Ph, Hz: 400 ±15% / 3, 50, Input current (Max), A: 23, Output range, A: 60-300, Output Voltage, V: 14-32, Permitted Load at 60% Duty Cycle, A: 300, Permitted Load at 100% Duty Cycle, A: 240)	Preferred brand/Equivalent (ESAB/LINCOLN/MILLER)	SET	1			
6	Oxygen- Acetylene gas cutting torch and welding kit set (Set including portable oxy-acetylene brazing welder tool set with two T-grade hose (color coded), goggles, regulator gauges (color coded), cutting tips, heating nozzle, welding nozzle storage case, tip cleaners and spark lighter)		SET	2			
7	High Pressure Washer (Powerful 2100-watt induction motor, Current type (V/Hz): 230 / 50, Pressure (bar/MPa): Not less than 20 - max. 140 / 2 - max. 14, Flow rate (l/h): Not less than max. 500, Max. inlet temperature (°C): max. 40, Connection load (kW): Not less than 2.1, Powerful 2100-watt induction motor )	Preferred brand/Equivalent (BOSCH/KARCHER/NILFISK)	SET	1			
8	Wet and Dry Vacuum cleaner with Tach filter cleaning system (Current type (Ph/V/Hz): 1 / 220 / 240 / 50 / 60, Air flow rate (l/s) : Not less than 7.4, Vacuum (mbar/kPa): Not less than 254 / 25.4, Container capacity (l): Not less than 40, Rated input power/ Amps (W): Not less than 1380)	Preferred brand/Equivalent (BOSCH/KARCHER/NILFISK)	SET	1			
9	Heavy Duty Soldering Iron (Chisel Point tip: Flat bits minimum of 2 inch (Copper), Power: Not less than 200 Watts, Input voltage: 220-220 V)	Preferred brand/Equivalent (HAKKO/ AMERICAN BEAUTY)	SET	4			
<b>TOTAL</b>							





**Lot 2 - Tools**

SL. No.	Description of Tools	Preferred Brands	Unit	Qty	Offered Country of Origin and Brand	Unit Price DDP (Nu.)	Total Price DDP (Nu.)
1	<b>Heavy Duty Double Ended Bench and Pedestal Grinder</b> (Grinding wheel diameter: Not less than 200 mm, Rated input power: Not less than 600 W, Grinding wheel width: 25 mm, No-load speed: 3,600 rpm, Grinding wheel bore: 32 mm, Grit: 24, 60 )	Preferred brand/Equivalent (Bosch/Toshiba/Dewalt/Makita/Black & Decker)	SET	2			
2	<b>1/2" DR. Air Impact Wrench Set</b> (Details of sets and accessories included in the detailed technical specification)	Preferred brand/Equivalent (Topful/ Gedore/ STANLEY)	SET	1			
3	<b>1/2" DR. Air Ratchet Wrench</b> (Max. Torque: Not less than 70 ft-lb / 95 Nm, Free Speed: Not less than 160 RPM, Air Pressure: 90 PSI / 6.2 BAR, Air Consumption: 3.92 CFM, Air Inlet: 1/4" PT, Min. Air Hose: 5/16" ID)	Preferred brand/Equivalent (Topful/ Gedore/ STANLEY)	SET	1			
4	<b>Angle Grinder</b> (Rated input power: Not less than 2000 W, No-load speed: 6500 rpm, Disc diameter: Not less than 180 mm, Grinding spindle thread: M 14)	Preferred brand/Equivalent (BOSCH/STANLEY)	SET	3			
5	<b>Hand operated pallet trolley</b> (Lift Capacity: minimum 2500 Kg, Fork Length: not less than 1150 mm, Width Overall Fork: not less than 550 mm, Lower Fork Height: not less than 80 mm, Max Lifting Height: not less than 200 mm)	Preferred brand/Equivalent (LM/ SWIFT/UTKAL)	SET	2			
6	<b>Hand operated pallet trolley</b> (Lift Capacity: minimum 4000 Kg, Fork Length: not less than 1150 mm, Width Overall Fork: not less than 550 mm, Lower Fork Height: not less than 80 mm, Max Lifting Height: not less than 200 mm)	Preferred brand/Equivalent (LM/ SWIFT/UTKAL)	SET	2			
7	<b>Master tool set (150 pcs)</b> (The Master Set has a tool kit with a variety of carefully chosen tools, 150 in count. Very portable and easy to carry around work places. ) (Details of sets and accessories included in the detailed technical specification)	Preferred brand/Equivalent (Stanley/Dewalt/Black and Decker/ Gedore or equivalent)	SET	2			
8	<b>Master tool set (132 pcs)</b> (The Master Set has a tool kit with a variety of carefully chosen tools, 132 in count. Very portable and easy to carry around work places. ) (Details of sets and accessories included in the detailed technical specification)	Preferred brand/Equivalent (Stanley/Dewalt/Black and Decker/ Gedore or equivalent)	SET	2			
9	<b>2-Speed Magnetic Drill Press</b> (Power : Not less than 1200W, Chuck capacity: 16 mm (5/8"), Magnetic clamping force : Minimum 9,300N (950kg), Drill Capacity: Not less than Steel: 50 mm (2"), No load speed (rpm): Not less than 250 / 450)	Preferred brand/Equivalent (Bosch/Toshiba/Dewalt/Makita/Black & Decker)	SET	1			
10	<b>Manual A3 paper cutter</b> (The A3 paper cutter should be able to easily cut through 400 sheets of 80g paper and includes a locking mechanism for two handed operation)	Preferred brand/Equivalent (N. S. Enterprises/ Engineering Drawing Equipment )	Nos	1			
11	<b>Rotary Hammer with SDS plus</b> (Rated Input power : 800W, Impact energy: Not less than 2.7J, Impact rate at rated speed: 0-4,000bpm, Rated speed: 0-900 rpm)	Preferred brand (Bosch/Toshiba/Dewalt/Makita/Black & Decker)	SET	1			
<b>TOTAL</b>							

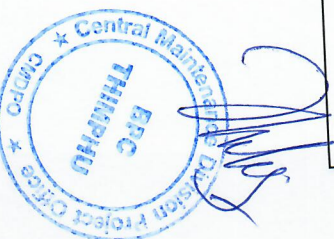




### Lot 3 - Testing Equipments

SL. No.	Description of Equipments	Preferred Brands	Unit	Qty	Offered Country of Origin and Brand	Unit Price DDP (Nu.)	Total Price DDP (Nu.)
1	<b>Digital Clamp on Multi-meter</b> (Measures AC current : 41.99 to 1000 A, AC voltage: 4.199 V to 600 V, DC voltage: 419.9 mV to 600 V, Resistance: 419.9 $\Omega$ to 41.99 M $\Omega$ , Continuity: Buzzer sounds at 50 $\Omega$ $\pm$ 40 $\Omega$ or less)	Preferred brand/Equivalent (Hioki/Megger/Kyoritsu)	SET	5			
2	<b>Transformer oil test kit</b> (Fully automatic insulating oil dielectric breakdown testing, Test voltage: 0 to 100 kV rms maximum (50 kV - 0 - 50 kV), Voltage rise time accuracy : better than 5%, Voltage resolution and accuracy: 0.1 kV $\pm$ 1% $\pm$ 2 digits, Vessels: 400 ml (standard), 150 ml (option), Temperature sensor resolution: 1°C, Internal printer: Dot matrix impact printer with graphical output Paper 57.5 mm wide, weight 52 gm per roll Epson black ribbon cassette)	Preferred brand/Equivalent (Megger/The Motwane Manufacturing Company Private Limited/UDERAJ ELECTRICALS PVT.LTD/KharkovEnergoPribor Ltd(KEP))	SET	1			
3	<b>HV test set</b> (Continuous testing with AC voltages up to 100 kV rms at 5 kV/A, sensitive PD measurements, Built-in overcurrent protection, DC testing up to 130 kV with optional rectifier)	Preferred brand/Equivalent (Megger/UDERAJ ELECTRICALS PVT.LTDKharkovEnergoPribor Ltd(KEP))	SET	1			
4	<b>Insulation Resistant tester</b> (Insulation resistance up to 20 T $\Omega$ @ 10kV, A.C. voltage (auto-ranging): 90-264 V rms, 47- 63 Hz 100 VA, Test voltage: 500 V, 1000 V, 2500 V, 5000 V, 10000 V)	Preferred brand/Equivalent (Megger/Hioki/UDERAJ ELECTRICALS PVT.LTD)	SET	2			
5	<b>Supply, installation and commissioning of DVDF test set</b> (Motor Generator Unit: This set up consists of a motor and generator combination to develop the required voltage and frequency. Control Panel Unit: The excitation of generator is governed through variac to control the output voltage. The necessary protection provided for all items against overload/single phasing)	Preferred brand/Equivalent (Rectifiers and Electronics /Ajit electronics co.)	SET	1			
<b>TOTAL</b>							

**Footnote:** If there are any mismatch in brand and specifications, the detailed technical specifications will supersede the brief description stipulated in this page.





**Lot 4 - Spares and consumables**

Sl No.	Material Description (Specifications)	Unit	Quantity	Offered Country of Origin and Brand	Unit Price at Delivery Port (DDP) (Nu)	Total Price at Delivery Port (DDP) (Nu)
1	Transformer Bushing (1.1kV, 250A (As per IEC 60137))	SET	100			
2	Transformer Bushing (1.1kV, 600A (As per IEC 60137))	SET	100			
3	Transformer Bushing (33kV, 250A (As per IEC 60137))	SET	50			
4	Transformer Bushing (11kV, 250A (As per IEC 60137))	NO	50			
5	Transformer Breather (Breather with Silica Gel (1"))	NO	20			
6	Transformer Breather (Breather with Silica Gel (1/2"))	NO	80			
7	Transformer Breather (Breather with Silica Gel (3/4"))	NO	50			
8	Transformer Bushing Stud Set (HT) (Dia: 16mm (11kV, 250amps))	NO	30			
9	Transformer Bushing Stud Set (LT) (Dia: 30mm (1.1kV, 630amps))	NO	70			
10	Transformer Bushing Stud Set (LT) (Dia: 20mm (1.1kV, 630amps))	NO	70			
11	Arching horn for 11kv (11kV)	NO	230			
12	Arching horn for 33kv (33kV)	NO	230			
13	Oil level Indicator Glass (Hard Plastic Transparent PVC Sheet (1 mm*1000mm*1000mm))	KG	20			
14	Rust Removing Spray (WD 40 500ml )	NO	20			
15	Soldering Wire (14SWG)	KG	20			
16	Bakelite Tube (Dia:8mm & Length 1000mm)	NO	50			
17	Bakelite Tube (Dia:10mm & Length 1000mm)	NO	50			
18	Bakelite Tube (Dia:12mm & Length 1000mm)	NO	50			
19	Ampere Tape (1", 30 m length)	NO	50			
20	Ampere Tape (3/4", 30 m length)	NO	50			
21	Cotton Tape (3/4", 30 m length)	NO	150			
22	Cotton Tape (1", 30 m length)	NO	150			
23	Rough Cotton Tape (Thickness: 1mm, Width: 2" & Length: 10m)	NO	100			
24	Glass Fibre Tape (3/4" * 85m)	NO	20			
25	Transparent Industrial Tape (Width: 1" & Length: 85m)	NO	250			
26	Gate Valve ((Meter Valve) 1")	NO	10			
27	Gate Valve ((Meter Valve) 1/2")	NO	40			
28	Gate Valve ((Meter Valve) 3/4")	NO	40			
29	Gate Valve ((Meter Valve) 2")	NO	5			
30	GI Cap (3/4")	NO	10			
31	GI Cap (1/2")	NO	60			
32	GI Seal Plug (1")	NO	60			
33	GI Seal Plug (1/2")	NO	50			
34	GI Seal Plug (3/4")	NO	50			
35	Teflon tape (Thread Seal Tape, 30 m length)	NO	20			
36	Condensator paper (2mils (.05mm) * 300mm)	NO	50			
37	Condensator paper (5mils(.1mm) * 300mm)	NO	50			
38	Border Strip paper (Thickness:0.5mm, Width: 1" & Length: 100m)	NO	100			
39	Electrical insulating Paper (5mil B-5-1 M)	KG	40			
40	Border Strip paper (4 mm x 8 mmX 100cm)	NO	20			
41	Galvanised Nuts and Bolt ( assorted sizes of 5kg each) (M6X 1.5X 35mm to M12 6X 1.5X 35mm )	KG	30			





42	Round Oil Seal rubber washer (1.1kV)(Inner Diameter: 12mm, Outer Diameter: 24mm, Height: 16mm))	NO	400				
43	Round Oil Seal rubber washer (11kV (Inner Diameter: 12mm, Outer Diameter: 30mm, Height: 20mm))	NO	500				
44	MS Thread bar (M12 X 1.5 M)	NO	10				
45	MS Thread bar (M10 X 1.5 M)	NO	10				
46	Tap Changer ((11/0.230kV) OFF Circuit, 5 position tap changer)	NO	15				
47	Tap Changer ((11/0.415kV) OFF Circuit, 5 position tap changer)	NO	40				
48	Tap Changer ((33/0.415kV) OFF Circuit, 5 position tap changer)	NO	30				
49	Tap Changer ((33/0.230kV) OFF Circuit, 5 position tap changer)	NO	15				
50	Fibre Sleeve ( Sizes : 1mm-4mm (Length: 1000mm))	NO	2000				
51	Fibre Sleeve ( Sizes : 6mm & 8mm (Length: 1000mm))	NO	700				
52	Heat Sinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 3mm, 1mm)	NO	200				
53	Insulated Cu Cable Lugs and splicer (Sizes : 1sqmm) (Types: Butt Ring, Spade Bullet, Fork, Spade, Quick Splice Terminals Connectors)) Set should include: minimum of quantity 20 nos for each type	SET	4				
54	Insulated Cu Cable Lugs and splicer (Sizes : 2sqmm) (Types: Butt Ring, Spade Bullet, Fork, Spade, Quick Splice Terminals Connectors)) Set should include: minimum of quantity 20 nos for each type, total quantity 100	SET	4				
55	Insulated Cu Cable Lugs and splicer (Sizes : 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Spade, Quick Splice Terminals Connectors)) Set should include: minimum of quantity 20 nos for each type, total quantity 100	SET	4				
56	Insulated Cu Cable Lugs and splicer (Sizes : 4sqmm) (Types: Butt Ring, Spade Bullet, Fork, Spade, Quick Splice Terminals Connectors)) Set should include: minimum of quantity 20 nos for each type, total quantity 100	SET	4				
57	Insulated Cu Cable Lugs and splicer (Sizes : 5sq mm) (Types: Butt Ring, Spade Bullet, Fork, Spade, Quick Splice Terminals Connectors))Set should include: minimum of quantity 20 nos for each type, total quantity 100	SET	4				
58	Insulated Cu Cable Lugs and splicer (Sizes : 6sqmm ( Ring type))	NO	20				
59	Insulated Cu Cable Lugs and splicer (Sizes : 10sqmm ( Ring type))	NO	20				
60	Insulated Cu Cable Lugs and splicer (Sizes : 16sqmm ( Ring type))	NO	20				
61	Insulated Cu Cable Lugs and splicer (Sizes : 25sq mm ( Ring type))	KG	100				
62	Pre-span Paper (Thickness: 1mm, Length: 1500mm & Breath: 1000mm)	KG	70				
63	Pre-span Paper (Thickness: 2mm, Length: 1500mm & Breath: 1000mm)	KG	150				
64	Pre-span Paper (Thickness: 3mm, Length: 1500mm & Breath: 1000mm)	KG	120				
65	Pre-span Paper (Thickness: 4mm, Length: 1500mm & Breath: 1000mm)	KG	20				
66	Pre-span Plastic (Thickness: 0.3mm)	NO	400				
67	Cape Tube Paper (Thickness: 1mm, Inner Diameter: 6mm, Outer Dia: 8mm, Length: 1000mm)	NO	400				
68	Cape Tube Paper (Thickness: 2mm, Inner Diameter: 12mm, Outer Dia: 16mm, Length: 1000mm)	NO	400				
69	Cape Tube Paper (Thickness: 2mm, Inner Diameter: 18mm, Outer Dia: 22mm, Length: 1000mm)	NO	400				
70	Cape Tube Paper (Thickness: 2mm, Inner Diameter: 24mm, Outer Dia: 28mm, Length: 1000mm)	NO	400				





71	Cepe Tube Paper (Thickness: 2mm, Inner Diameter: 30mm, Outer Dia: 34mm, Length: 1000mm)	NO	400			
72	Cork sheet (Length: 3', Breath: 2' & Thickness: 6mm)	EA	100			
73	Black Rubber Gasket (10MM*10MM)	M	250			
74	Steel Wire Brush (Size: 5 row (with handle))	EA	10			
75	Duco Thinner (1 Litre Container)	L	60			
76	Smoke grey paint (5 litre Container)	L	90			
77	Dendrite (1 Litre Container)	L	70			
78	Fevicol (1 Litre Container)	L	200			
79	MS welding rod (3.2 mm, 3mm)	KG	10			
80	MS welding rod (4.2 mm, 4mm)	KG	10			
81	Copper Welding rod (E-206)	KG	2			
82	Brass Brazing rod (3.2mm)	KG	2			
83	MS Brazing rod (2mm)	KG	10			
84	MS Brazing Rod (2.6mm)	KG	10			
85	Hack saw blade (1" Double)	NO	10			
86	HSS Tool Bits ((6 x6x64))	NO	5			
87	HSS Tools Bits (8x8x7 mm)	NO	5			
88	MS Sheet (2500x2mm)	SHT	2			
89	MS sheet (2500 x1250 x3 mm)	SHT	2			
90	MS Solid bar (25mm dia)	M	2			
91	Solid Teak Wood (Teak)	FT3	20			
92	Plywood ((Thickness: <20mm, Length: 8' & Breath: 4'))	NO	10			
93	PVC Insulated Cu wire (1solid strand (Dummy) (6sqmm))	M	200			
94	Cable tie ((4", 5", 6", 8"))	NO	4000			
95	Helmet (White)	NO	15			
96	Dhoti Rag (Old Rags)	KG	800			
97	Vacuum Pump Oil (IG 68 (ISO VG 220))	L	50			
98	Booster Pump Oil (MD 504)	L	20			
<b>TOTAL</b>						

