


TECHNICAL SPECIFICATIONS OF LOT 1 (MEASURING EQUIPMENT)

Item No.	Item Description	Unit	Technical Specification	Sample Picture
1(1)	Digital laser distance meter	NO	Refer page 13 Technical Specification of Lot 1 for detailed technical specification.	
1(2)	Micro-Ohm meter	NO	Refer page 14 Technical Specification of Lot 1 for detailed technical specification.	
1(3)	Transformer turn ratio test meter, Battery-operated	NO	Refer page 26 Technical Specification of Lot 1 for detailed technical specification	


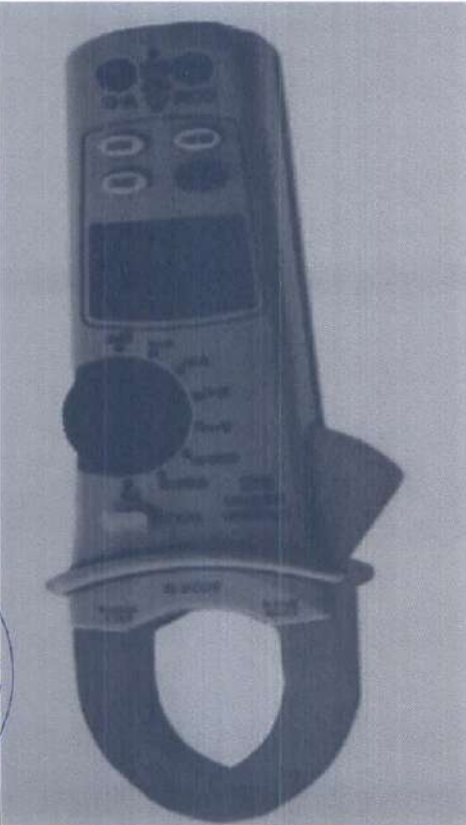


1(4) Insulation Resistance meter 50V to 5kV with multi range	NO	<ul style="list-style-type: none"> • Measure insulation of high-voltage equipment (such as transformers, cables and motors). Automatically calculate and display PI (Polarization Index) and DAR (Dielectric Absorption Ratio) • Step voltage testing, temperature compensation, temperature measurement, and leakage current display • Data storage and USB interface • Power supply: LR6 (AA)x6 or 95459 Battery Pack • Dimensions, mass: 260Wx250.6Hx119.5Dmm, 2.8 kg <p>Accessories:</p> <ul style="list-style-type: none"> • Test lead (1 No.) • Alligator clip (1 No.) • USB Cable (1 No.) • AC Adapter (1 No.) • Battery pack (1 No.). 	
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1(5)	Insulation Resistance meter 5kV to 10kV with multi range	NO	<p>Insulation Tester Type:</p> <ul style="list-style-type: none"> • Digital Megohmmeter • Insulation testing voltage: 250V, 1Kv • Insulation Testing Resistance: 2T0hm • Operating Temperature Range: -20 Degree Celsius to +50 Degree Celsius • External Height: 160mm • External Width: 269mm • External Depth: 277mm • Weight: 2.2lb • SVHC: No SVHC. 	
1(6)	Digital clamp on meter	NO	<p>Digital clamp on meter, Up to 600V AC (rms) / 600V DC (Auto ranging), 1mA - 1000 A (rms), Resistance: 0Ω-1MΩ Heavy duty with accessories.</p>	
1(7)	Digital Phase sequence meter Protection CAT-III, 600V	NO	<p>Digital Phase sequence meter (40 to 690V) with all Accessories. Protection CAT-III, 600 V.</p> <ul style="list-style-type: none"> • Measurement range: 40 to 690V • Frequency: 15 to 400Hz • Input current: 1mA • Phase test current: 1mA • Operating conditions: 0 to 40 degree Celsius • Protection: IP40 	



			<ul style="list-style-type: none"> • Testing cables with strong alligators clip: 3x130cr • Dimensions: 130x69x32 • Weight: 130 grams • Protection standards: IEC 61010/EN IEC 61667-7/EN 	
1(8)	Digital Earth Resistance tester	NO	Digital Earth resistance test meter (1 Ω -200k Ω) with 4, 3 & 2 wires earth resistivity measurement using Wenner method with all necessary accessories	
1(9)	Digital Clamp Meter (0-10000A)	NO	DCM 340 Digital clamp meter, 600Amp AC & DC and 600V AC & DC, including accessories (Batteries, pouch & test leads), Type:DCM340, Make:Megger	



(10)	Leakage Clamp Meter	NO	<p>Portable digital leakage clamp meter along with complete accessories (Automatic), leakage current measuring range: 400mA/4A/100A, 50Hz, current range selection, conductor size: 28mm dia. (approx.), battery operated; weight: 220g approx.</p>	
(11)	Transformer Oil Water Content Tester	NO	<p>Refer page 15-16 Technical Specification of Lot 1 for detailed technical specification.</p>	



1(12)	Transformer Oil BDV Test kit	Set	<p>OTS 60PB: -30 to +30kV_rm Voltage Regulation: 0.1kV, ±1%, ±2digits Programmed Test Sequence: ASTM D 1816-04 ASTM D 877A-02 ASTM D 877B-02 IEC 60156-9 Vessel 400ml & 150ml: Nylon 12 chamber provides precision electrode alignment and adjustment wheels lock electrodes in position, option of 150ml vessel for low volume oil samples. Temperature Sensor Resolution: 1°C Power Supply: Line voltage 85 to 265 VAC Line frequency 50/60H Battery: Lead acid 2x12 V 4Ah, or NiMH 24V 2A Interface: USB 2.0 compatible 2x USB type – A (Memory Stick) 1xUSB Type B (Printer or PC) Internal Printer: Matrix impact printer Paper 57.5mm wide External Printer: Any printer with USB interface and PCL3 driver Protection: Safety interlock on Cover Display: 320 x 240 QVGA Colour display with backlight Dimension: 520mm x 340mm x 250mm Weight: 16.8kg (Printer, NiMH Battery) Test Vessel 1.1kg (400 ml and 150ml) Operating Temperature: 0°C to +50°C Storage Temperature: -30°C to +65°C Humidity: 80%RH at 40°C operation 95% RH at 40°C storage Safety: Designed in accordance with IEC61010</p>
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EMC: Light Industrial IEC 61326-1 Class B,
CISPR 16-1 and CISPR 16-2



Digital IR tester
Max resistance is 10T ohm , 0.5-10kv
MIT515 with IR, IR(t), PI and DAR
Light weight Li ion battery CAT IV 600V
safety rating (MIT515)
DC and AC voltmeter (30v to 660 v)
LCD display

Digital Insulation
Resistance Tester



NO

(13)



	<p>Voltage band - 10-36KV Voltage presence indication - Red LED Flashing (very bright and visible at more than 20m in direct lighting) Powerful rated audible signal - >60dB(A)/2rn Operating check - Pressing test button and correct operation is indicated with a red LED flashes on-sound signal</p> <p>Characteristics Detectors have unitary adjustments and are checked by routine test also dielectrically tested on substation bars Power supply - 1x9V alkaline battery type 6LR61.</p> <p>Contact electrodes fitted to the housing by screwing and are easily interchangeable. The detector should be fitted with telescopic insulation stick of not less than 7m able to with stand up to 36KV.</p> <p>End fittings K- Universal, for universal end fitting sticks Weight of the detector - 420 grams Size of detector - Dia 59x270mm</p>
1(14)	<p>Voltage detector line tester up to 36kV</p> <p>NO</p>



(15)	Non-contact AC Voltage detector 50V - 1000V (tester)	<p>Dual Range Non-contact Voltage Tester: AC volt 80V to 7KV (50/60Hz) Audio signalling and light emitting Alkaline button cell battery 1.5V (LR44)x2 Pen type Auto power-off feature conserves and extends battery life Digitally controlled ON/OFF power button Microprocessor controlled low-battery indicator CAT IV 1000 Volt rating provides expanded operation and protection Lightweight, durable polycarbonate plastic resin construction with convenient pocket clip.</p>	
(16)	Digital Multimeter	<p>Digital multimeter, Voltage ranges: 200mV-1000V AC/DC, 50Hz Current ranges: 200micro Amps -10Amps AC/DC, Resistance ranges: 0 - 20mega-ohms with diode test. CAT III. The Digital Multimeters must be supplied along with test and calibration certificates.</p>	



1(17)	MV Cable Jointing Preparation set	<p>SET</p> <p>CNPT/630-1-MV-NG case containing following tools:</p> <ul style="list-style-type: none"> • MF2/60: Outer sheath and insulation cut • MF1+/65: Non peelable semi-conductor removal • SRC: For MF1+/25 tool, peelable semi-conductor cut with a chamfer at the end of insulation • SCH: For MF1+/25 tool, to perform a chamfer at the end of the insulation • ALROC-FENTE: To perform splits on the outer sheath • ROTO-TMG: To maintain mechanical fitting connector and lugs • GFE-TMG: For ROTO-TMG tool, tightening of the sheath and bending the sector shaped conductor • K7/GRATT: For ROTO-TMG tool, abrasion of the outer sheath • EV/NPT: Spreading the sheath • EV630: Flaring out the outer sheath • P115: To fix collars • T630: Performing cones on the insulation <p>FULL CASE 50MM² TO 630MM² WITH TC630 Compatibility with cables C33-223, NFC33-223, HN33SS23</p> <p>Use: CNPT/630-1-MV-NG to prepare entirely from 50 to 630 mm²</p> <table border="1" data-bbox="168 556 251 1134"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>575mm</td> <td>470mm</td> <td>145mm</td> <td>10kg</td> </tr> </tbody> </table>	Length	Width	Height	Weight	575mm	470mm	145mm	10kg
Length	Width	Height	Weight							
575mm	470mm	145mm	10kg							



Huazheng®



Portable High Voltage AC/DC Test Kit
 Input: 230V AC 50Hz
 Output: HV Test Kit (0-70kV-AC) & 80 kV DC

NO


HV (AC/DC) Test Kit

Offline fault locator Max 3, Specifications

1. Range : up to 1000kms
2. Signature analysis : Every 100m with accurate results
3. Operating temperature : -20°C to 60°C

Offline Fault locator
 Max 3



	<p>4. Fault detection : All types of 'OPEN' faults, 'SHORT' faults and faults on spur lines</p> <p>5. Power Supply : 15VDC and Built-in rechargeable battery</p> <p>6. Display : High resolution illuminated LCD display</p> <p>7. Outputs : Printout in 4 formats, Graphic LCD display & Complete Analysis data to Laptop loaded</p> <p>with TADMA Software</p> <p>8. Type of Signal Transmission : Pulse EHF, HF & LF options</p> <p>9. Control : Automatic mode and Manual mode. 10. Noise suppression Filter: AC Noise or HVDC Noises.</p>	
<p>1(20)</p> <p>HV Proximity Alarm, upper arm fitting 12kV, 70cm</p>	<p>NO</p> <p>High Voltage Proximity Alarm & Personal Safety Voltage Detector: Distance of starting warning 80 cm from 11kV (6.6kV voltage to earth). Applicable frequency 50 Hz. Volume 70 db or higher at 1 meter distance, Battery life: 50 Hours for continuous use; Suitable for Arm Fittings or Around Helmets Fittings</p>	



Technical Specification of Item No. 1(1): Digital laser distance meter

Parameter	Specification
Measurement Range	Distance:10-500m/11-550 yd./33-999 ft.([*] 999 ft.: 304.5m/333 yd.) Angle: ±89°
Distance Display	[Internal Display] Act (Actual Distance): every 0.5m/yd., 1.0 ft. (shorter than 100m/yd./ft.) every 1.0m/yd., 1.0 ft. (greater than 100m/yd./ft.) Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd., 0.5 ft. (shorter than 100m/yd./ft.) every 1.0m/yd., 1.0 ft. (greater than 100m/yd./ft.) Ang (Angle): every 0.1° (less than 10°) every 1.0° (more than 10°) *Downward angle from the horizontal line: with display "-" [External Display] Act (Actual Distance): every 0.5m/yd., 1.0 ft. Hor (Horizontal Distance) and Hgt (Height):every 0.2m/yd., 0.5 ft. Ang (Angle): every 0.1°
Magnification (x)	6
Effective object diameter (mm)	21
Actual Field of View (°)	6.0
Exit Pupil (mm)	3.5
Eye Relief (mm)	18.2
Dimensions (LxWxH) (mm)	130x69x45
Weight (g)	210
Power Source	CD2 lithium battery x 1 (DC3V) Auto power shutoff function equipped (after 30 sec.)
Safety and EMC	VCCI class B, Class 1M laser product (IEC60825-1:2001), Class 1 laser product (21CFR 1040.10 and 1040.11) CE, EMC directive, Fcc Part15 subpart B Class B, c-tick, WEEE



Technical Specification of Item No. 1(2): Micro-Ohm meter

Parameter	Specification
Measurement Types	Resistance Measurement: 0.000 mΩ (30 mΩ range) to 3.5 MΩ (3MΩ Range), 10 Ranges
	Temperature Measurement (thermistor): -10.0 to 99.9°C
Measurement Method	4-terminal direct current (constant current), banana plug
Range Switching	Auto or Manual
Temperature Correction	Reference temperature setting range: -10°C to 99.9°C, Temperature Coefficient setting range: -9,999 ppm/°C to +9,999 ppm/°C
Zero-adjustment	Within +3% f.s. of each range. (f.s.=30,000 dgt)
Trigger	Internal Trigger1
Measurement Speed	Fixed
Functions	Temperature correction, temperature conversion, off-set voltage compensation (OVC), comparator (ABS/REF%), length conversion, judgement sound setting, auto hold, auto power save (APS)
Display refresh rate	Without OVC: approx.. 100ms, With OVC: approx.: 230ms
Memory Storage	Number of recordable data points: (Manual/ auto) Up to 1000, (interval) Up to 6000; interval: 0.2 to 10.0s (0.2s steps); Acquisition of data from memory: display, USB Mass Storage (CSV, TXT files)
Power Supply	LR6 (AA) Alkaline batteries x8, Continuous use: 10 hours (Under our company's conditions), Rated power consumption: 5VA
Application standards	Safety: EN61010 EMC: EN61326

Accessories	Quantity
Clip type lead	1 No
Temperature sensor	1 No
LR6 alkaline battery	8 Nos
Strap	1 No
Extra fuse	1 No



Technical Specification for Transformer Turn Ratio Meter


Model	TTR100-1
Type of Power	Rechargeable NiMH battery pack, 3.6 V dc, 3800 mAh
Battery Life	15 hours of field operation
Charger input voltage	100-250 V ac, 50/60 Hz ± 2 Hz Unit can be operated while charging. Charging time is approximately three hours
Optional charger source	Optional inverter 12 V dc to 115 V ac for powering a charger from vehicle battery (non CE marked)
Excitation voltage	8 V rms for testing distribution or power transformers, and PTs; 1.5 V ac RMS, or 8 V ac RMS for testing CTs. The excitation voltage is switched automatically if excitation current exceeds a preset value.
Test frequency	55 Hz internally generated providing a universal 50/60 Hz test set
Excitation current range	0 to 100 mA, 4-digit resolution
Turns ratio range	8 V ac: 0.8 to 20,000, 5 digit resolution (for transformers and PT testing)
	1.5 V ac: 5.0 to 2200, 5 digit resolution (for CT testing)
Phase deviation range	$\pm 90^\circ$, 1 decimal point for the minutes display, 2 decimal points for the degree display, or for the centiradian display
Winding resistance range	0 to 2000 Ω , 4 digit resolution
Transformer vector group	1PH0 or 1PH6
Transformer polarity	Additive or Subtractive
Current (rms) accuracy	$\pm(2\%$ of reading + 1 digit)
Phase deviation accuracy	± 3 minutes
Turns Ratio accuracy	$\pm 0.1\%$ (0.8 to 2000)
	$\pm 0.15\%$ (2001 to 4000)
	$\pm 0.20\%$ (4001 to 10,000)
	$\pm 0.25\%$ (10,001 to 20,000)
Winding resistance accuracy	$\pm(10\%$ of reading + 1 digit) for 10 Ω to 2000 Ω range
	$\pm(10\% \pm 1 \text{ m}\Omega)$ for 10 m Ω to 9.99 Ω range
	$\pm(10\% \pm 0.5 \text{ m}\Omega)$ for 0.1 m Ω to 9.99 m Ω range
PC/Printer interface	RS232C port, 9-pin, 57.6 Kb aud (19.2 Kb aud for the printer)
Display full graphics	LCD module, wide temperature range, 128 x 64 dots (21 characters by 8 lines)
Test result storage	Internal, non-volatile memory for storing up to 200 sets of single-phase measured and calculated ratio, exciting current, phase, ratio error, winding resistance, polarity, vector group, plus header information (company, substation, transformer manufacturer, transformer rating, instrument serial number, temperature, relative humidity, and operator name) In addition, up to 100 user-defined transformer settings can be stored.
Computer software	Included software for downloading of data to a PC, data storage to database and report printout.
Test Leads	Supplied with one complete set of single-phase leads, 6 ft (1.8 m) in length
Transformer winding phase relationship	ANSI C57.12.70-1978 CEI/IEC 76-1:1993 and Publication 616:1978 AS 2374, Part 4-1982 (Australian Standard)





Safety/EMS/Vibration	Meets the requirements of IEC-1010-1, CE and ASTM D999.75
Temperature range	Operating: -4° F to 131° F (-20° C to 55° C)
	Storage: -58° F to 140° F (-50° C to 60° C)
Relative humidity	Operating: 0 to 90% noncondensing
	Storage: 0 to 95% noncondensing
Protective devices	High voltage side shorting relays, transient voltage suppressors and gas surge voltage protectors
Measuring time	8 to 20 seconds for a single-phase distribution transformer
Measurement method	ANSI/IEEE C57.12.90
Dimensions	9.5 H x 4.5 W x 1.875 D in. (241 H x 115 W x 48 D mm)
Weight	Approx. 3.3 lbs (1.5 kg), instrument only, without leads
Protect instrument carrying case	Neoprene case with carrying strap and attachable pouch for universal charger and 6 ft. (1.8 m) test leads, single-phase connection (two leads for the H winding and three leads for the secondary winding with tap)




TECHNICAL SPECIFICATIONS OF LOT 2 (ELECTRICAL EQUIPMENTS)

Item No.	Item Description	Unit	Technical Specification	Sample Picture
2(1)	Local Earthing with spike	SET	<p>Certified According to the Standard IEC 61230</p> <ul style="list-style-type: none"> • 3 aluminium alloy clamps closing by automatic spring activation for cylindrical • Conductors with diameter between 8 and 30 mm. • 1 clamp dispenser head with recovery hook. • 2 copper cables with PVC insulation of (16, 25, 35, 50, 70 mm²) section • Depending on model and 2.5 m long. • 1 copper cable with PVC insulation of (16, 16, 25, 35, 50 mm²) section • Depending on model and 15 m long. • 1 metallic spool to store the 15 m of earthing cable. • 1 telescopic pole (1.15 m folded and 2 m extended). • 1 earthing rod. • 1 plastic case to store and transport the equipment. • 1 bag to store and transport the pole and the earthing rod. • Can be used on 33kV/11kV system voltage • Portable and easy to carry to site. Total weight of the set should not exceed 9.5 kg <p>A sample should be submitted. Bid without samples shall be considered non-responsive.</p>	

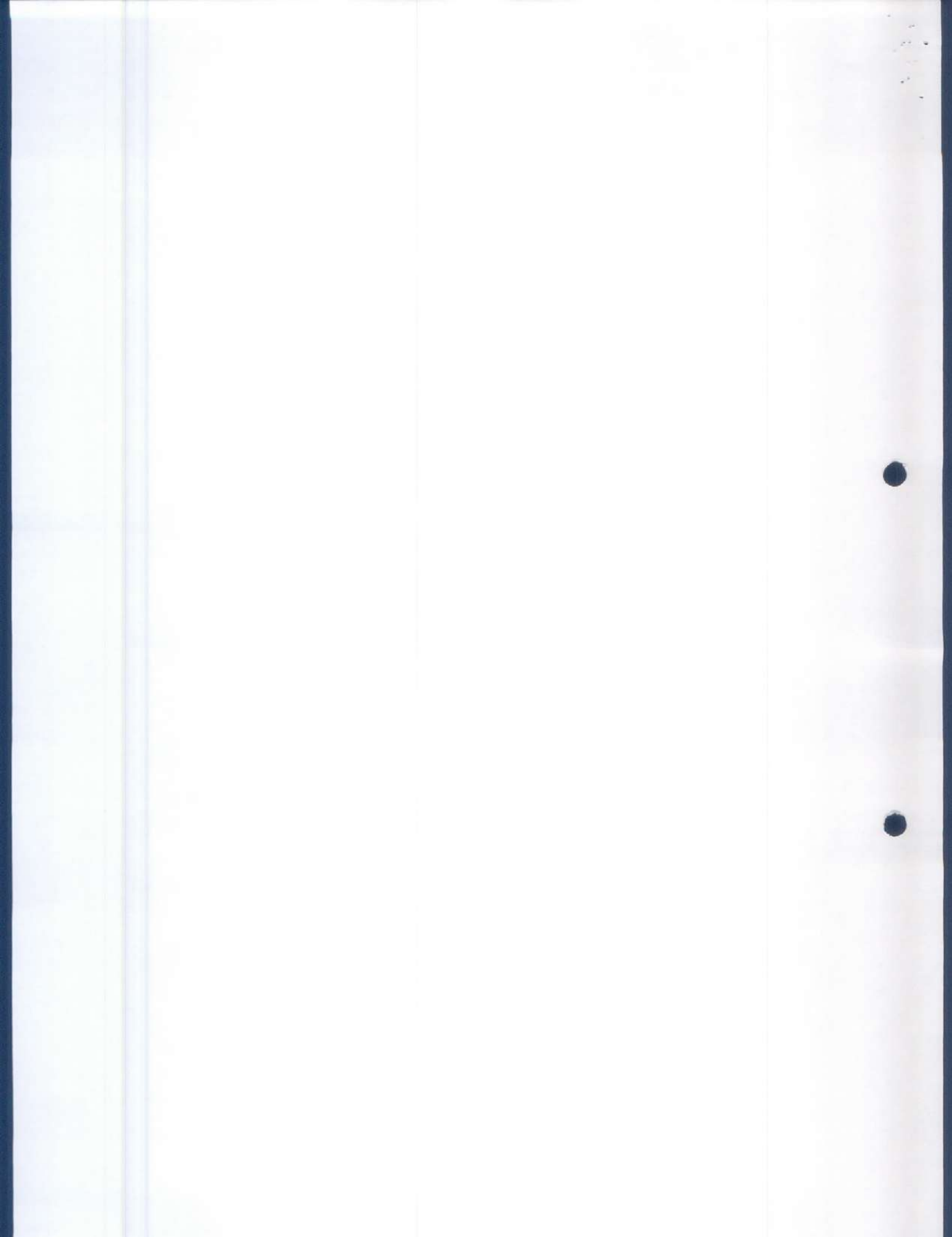


2(2)	Arc Welding Machine Single Phase	No		<p>Input Voltage: 220V ±15%, Frequency: 50 Hz Rated Input Power: 7.3 KVA, Current Range: 20 - 200A Permitted Load @ 60% Duty Cycle: 200A, Power Factor (max): 0.9 Efficiency at maximum current: 85%, Arc Force: Adjustable, Error Indicator: Yes, Power Indicator: Yes Weight: 8 Kgs, Electrode Size recommended: upto 4.00mm, Package Content: Machine with Input cable, Welding Cable set with Electrode Holder, Earth Cable set with Earth Clamp, Manual, Preferred Brand: ESAB make</p>	
2(3)	Pallet Trolley	NO		<ul style="list-style-type: none"> • 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 • Steering Wheel: Not less than 200x50 mm • Roller Small: Not less than 80x70 mm 	

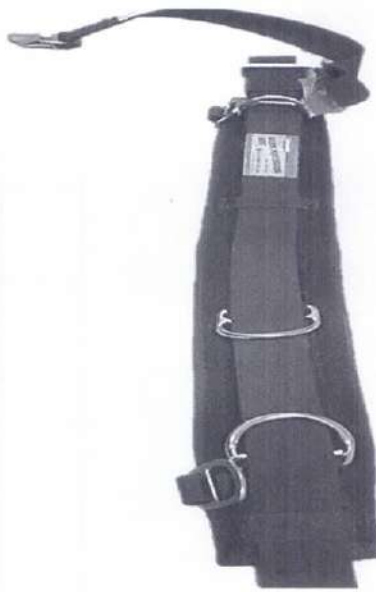



2(4-i)	Compressor machine, 100T capacity, manual operated, suitable to joint AAC / ACSR conductor & earth wire, supplied with pressure gauge operating handle and one spare kit.	NO	<p>Brand : VENUS Body Dia : 200mm Body length : 370mm Ram Dia : 107/140mm Ram Travel : 25mm Compressor pressure : 700 bar Body Material : EN-8, Cylinder Piston Hard-Croom Pumping unit : Double Plunger low and high pressure</p> <p>2. Steel die set suitable for this machine for crimping following conductor:</p> <ul style="list-style-type: none"> • Die set for ACSR Moose conductor (suitable to compress Aluminium and Steel) • Die set for ACSR Zebra conductor (suitable to compress Aluminium and Steel) • Die set for ACSR Panther conductor (suitable to compress Aluminium and Steel) • Die set for ACSR Wolf conductor (suitable to compress Aluminium and Steel) • Die set for ACSR Dog conductor (suitable to compress Aluminium and Steel) 	
2(4-ii)	Die set for Moose (Steel & Al)	SET	Suitable to compress Aluminium and Steel	
2(4-iii)	Die set for AACSR Moose (Steel & Al)	SET	Suitable to compress Aluminium and Steel	











TECHNICAL SPECIFICATIONS OF LOT 3 (SAFETY EQUIPMENT)

Item No.	Item Description	Unit	Technical Specification	Sample Picture
3(1)	Linemen safety belt	SET	<p>Outer Belt: 45 mm- 50 mm (W) x 1200 mm (L) (Curved), Inner Belt: 100 mm (W) x 700 mm (L) (Curved) with D-ring x 2pcs & V Square ring x 1pc Lanyard: 3-strand Nylon Rope 14mm-16mm dia. x 2000 mm -2500 mm (L) with snap hook and 8-Ring, additional unlocking type retractable lanyard 18 mm (W) x 1300 mm (L) with Snap Hook & Shock Absorber. Weight: 2 -3kg. Application for both work Positioning Suspension & Single-Line Suspension. A sample should be submitted. Bid without sample shall be considered non-responsive.</p>	
3(2)	Safety Helmet white with BPC logo	NO	<p>Safety helmet without face protector, head band Circumference: range from 520mm to 620mm, Class E with BPC Logo on the front, White colour, Type 1: helmet full brim, Full chin band adjustable knob at the back.</p>	



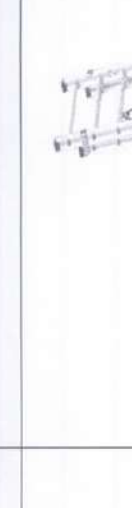
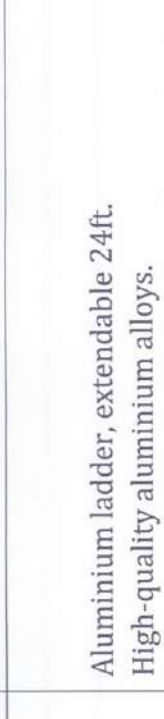
3(3)	Insulated hand gloves, 36kV	PAIR	Insulated hand gloves 36KV, double laminated. IEC 60903 or ANSI/ASTM D 120, Size : 10 Or 11 Inches, Length : 16 inches or 406mm, Colour : Solid, Weight : 800gm.	
3(4)	Insulated hand gloves, low voltage, 1000V	PAIR	Insulated hand gloves low voltage 1000V. Isolated gauntlets, Class : 0 Average thickness : 1.0mm - 1.5mm Weight : 220-320 g	
3(5)	Auto darkening welding helmet	NO	Fibre Metal 990 Thermo Plastic Welding Helmet -24" viewing area	

3(6)	Electrical safety barriers - Cones & Tape	NO	<p>Cone Barricade system consisting belt cassette and double weight ring Dimension: 12 ½ L x 12 ¼ W x 39 ¾ H inches Weight: 4kg</p> <p>Highly visible, bright yellow hazard protection system</p> <ul style="list-style-type: none"> • Versatile top design accommodates barricade belt, flashing light and lock-in sign holder. • Four-sided shape allows for efficient stacking. • Multi-lingual imprinted warning messages provide effective communication with a broad audience. • Molded-in slots for easy handling. • ANSI and OSHA compliant colour and graphics. 	 
3(7)	LED torch to be used with helmet/cap	NO	<ul style="list-style-type: none"> • Drop test up to 5m • Shatterproof lens • Uses 3x AAA batteries • Waterproof IPx4 • Hi-intensity LED, 80 lumens • Spot beam or use the diffuser • Night vision: 2x red LEDs • Pipe inspection: 1x green LED • Comfortable and sturdy 3-way head strap. 	


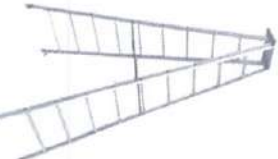




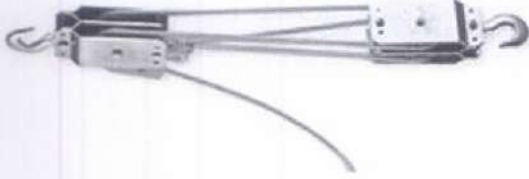

TECHNICAL SPECIFICATIONS OF LOT 4 (PULLEY & LADDER)

Item No.	Item Description	Unit	Technical Specification	Sample Picture
4(1)	Aluminium Ladder, extendable 24 ft.	NO	<p>Aluminium ladder, extendable 24ft. High-quality aluminium alloys. Lining on sides and steps for a firm foothold and make use of solid rubber shoes and caps, manila rope pulley and safety locks from bottom to top to prevent scratches on the floor and walls.</p>	
4(2)	Aluminium ladder, extendable 40ft	NO	<ul style="list-style-type: none"> • Material: Aluminium • Industry Ladder Size: 40ft • Extended ladder height: 35ft • ANSI Type: IA • Load capacity: 300lb • Adjustable increments: 12 in • Bottom width: 19 1/4 in • Series: D500-2 • Rail Type: Aluminium • Shoe Design: Swivel • Rung shape: D-rung • Closed height: 8ft • Section length: 20ft • Net weight: 99.5 lb • Rung/Step Spacing: 12 in 	



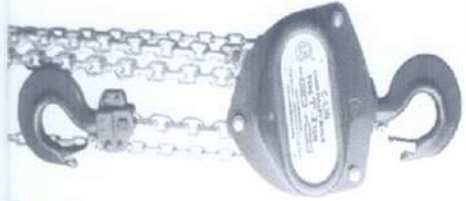


4(3)	Aluminium Ladder extendable 30ft	NO	<p>Closed Height: 5m, Extended Height: 9m, Approx. Weight: 26 kg, Load Rating: 150 kg, Fitted with Swivel Feet.</p>	
4(4)	Aluminium step ladder & foot 2.1m	NO	<ul style="list-style-type: none"> • Material: Aluminium • Usage/Application: Industrial • Surface treatment: Galvanized • Working height: 8ft • Type: Foldable 	





4(5)	Block and Tackle SWL 600kg	Set	<p>Block & tackle SWL 600kg, 30m synthetic rope 2x2 block with swivels : Technical Specifications</p> <p>Rope Block and Tackle, 4 to 1 Ratio, Lift Capacity 350 Lb (150kGS), Pull Capacity 700 Lb (370kGS), Reach Capacity 12 Ft, Rope Dia 3/8 In, Min Between Hooks 18 In, Rope Length 50 Ft, Stamped Steel Housing Construction, Zinc Plated Finish, Cam Lever Load Lock, Heat-treated, Drop-forged Steel Latch, Hook Opening 5/8 In Cable and Web-Strap Ratchet Pullers Rope Hoist/Block & Tackle Assists with light industrial lifting, pulling, positioning, and stretching tasks. Roller cam lock holds load in position. Zinc-plated with heat-treated, drop-forged steel latch hooks will provide years of tough service. 3/8" rope dia.4:1 mechanical advantage 50-ft. rope</p> <p>Remarks: Discard pulley with rubber...Prefer brass & stainless steel in future procurement. Hook brass make, hook must be with automatic lock. Length of rope must be 60 mtrs.</p>	
4(6)	Two sheave pulley	NO	<p>Open type, two sheave pulley with eye hook, 5 Ton capacity; diameter: 350mm; material: mild steel.</p>	

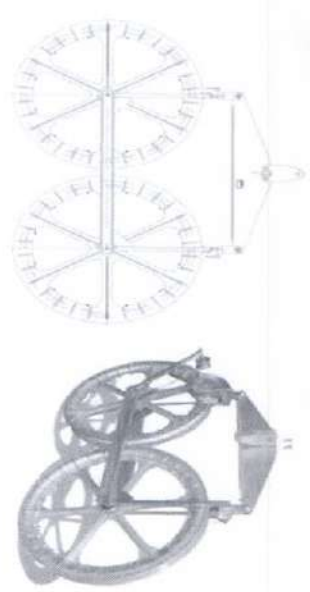


4(7)	Max Pulley	SET	<p>Max. pulley equipped with a safety hook preventing wire rope from coming off while operation. Wire rope can be used at any working temperature. Lifting and pulling capacity 8T. Max. force of full load ≤441N, size 660x100x380, Diameter of wire rope 16mm.</p> 
4(8)	Block and Tackle two-way pulley	SET	<p>Block & Tackle 2 Ton Rope Hoist Pulley Wheel, 4000LB, 65 feet of 3/8" Poly Rope Hoist Pulley Block-7:1 Lifting Power</p> <ul style="list-style-type: none"> • Rugged 2.5" Nylon Pulley, • Zinc Plated, Drop Forged Eye Sling Hooks and Clip, • 65 Feet of 3/8" Rope, • Lifting Power 7:1 Two Ton Working Load Capacity. 
4(9)	Chain pulley, 2.5 ton	SET	<ul style="list-style-type: none"> • Casting safety latch • Curved entry for hand chain to prevent jamming • Gear-case and hand wheel cover of highest level technology to cover resistance to external shocks • Double enclosure to keep out rainwater and dust • Three ball bearing mechanism to enhance mechanical efficiency • Double pawl spring mechanism • Asbestos-free friction disc and mechanical brake • Load chain guide mechanism • Bottom hook with safety latch • Ultra-strong grade 80 load chain • Interchangeable spares are readily available. 



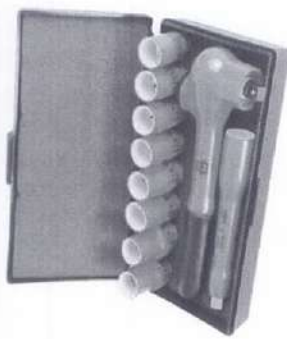


4(11)	Ratchet Chain Hoist Pulley 5Tons	No	<p>Ratchet Chain Hoist pulley 5 tons</p> <ol style="list-style-type: none"> 1. 5 ton, 2. Chain length 20', 3. load chain size 0.354", 4. No. of chain fall 2, 5. Net weight 114 lbs. 	
4(12)	Hand Chain Block Pulley	No	<p>3 ton capacity with complete accessories; heat treated, high tensile strength steel main frame, gears and shafts for additional strength; forged upper & lower hooks with forged safety latches; freewheeling mechanism for quick chain adjustments; weston style automatic load brake with double pawl load reduction; 360 degree rotating handle for ease of use in confined spaces; rubber grip for non-slipping handling. Brand/Make: D.M.P company, Italy/ Powercom Swiss, Switzerland or equivalent brand. Chain length 20', load chain size 0.354", No. of chain fall 2, Net weight 114 lbs.</p>	



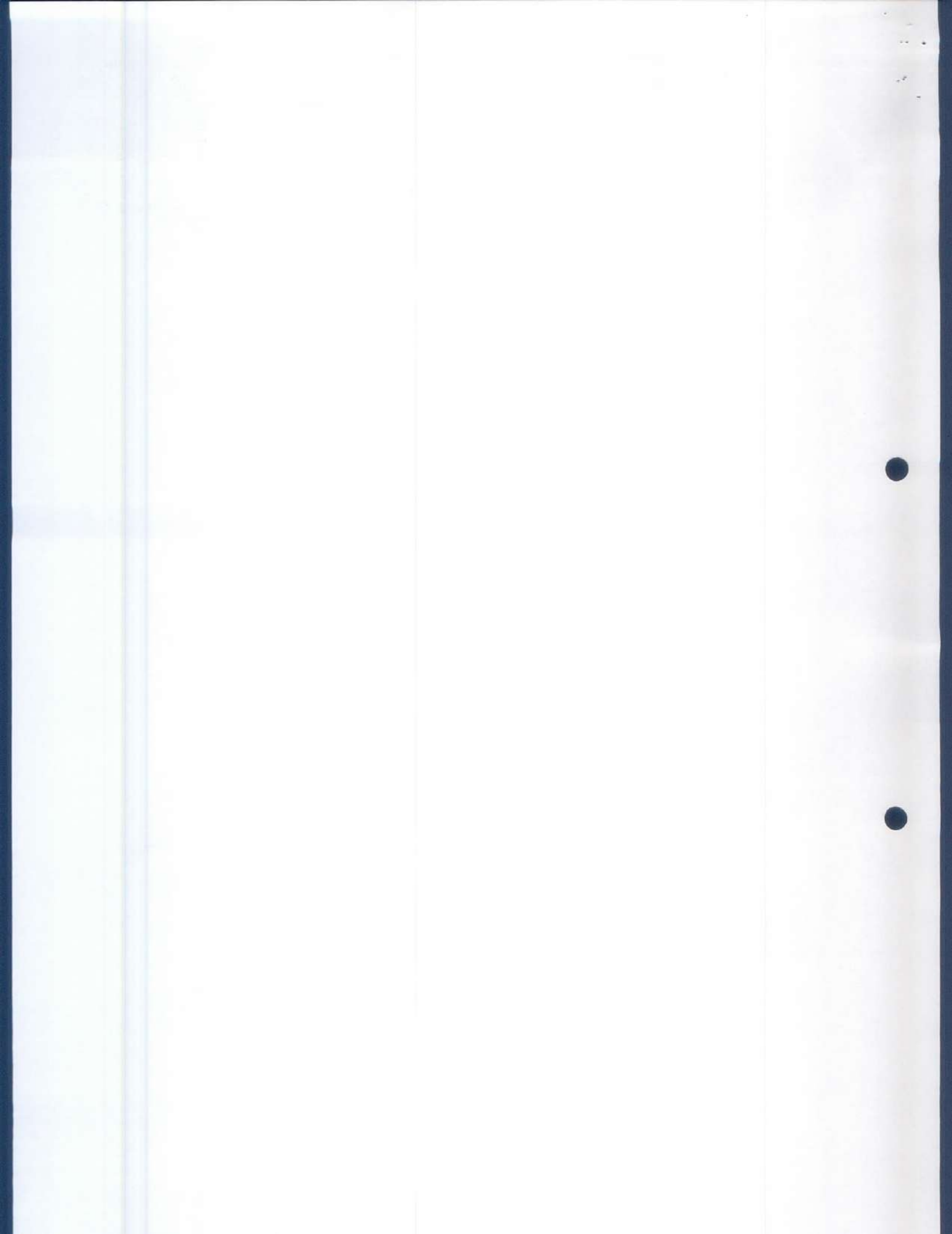
4(13)	Tandem sheave pulley	Set	<p>Special tandem blocks built with a steel galvanized yoke connecting two standard blocks. Roller Outer dia :300mm, grove size:30mm</p> 
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TECHNICAL SPECIFICATIONS OF LOT 5 (HAND TOOLS)

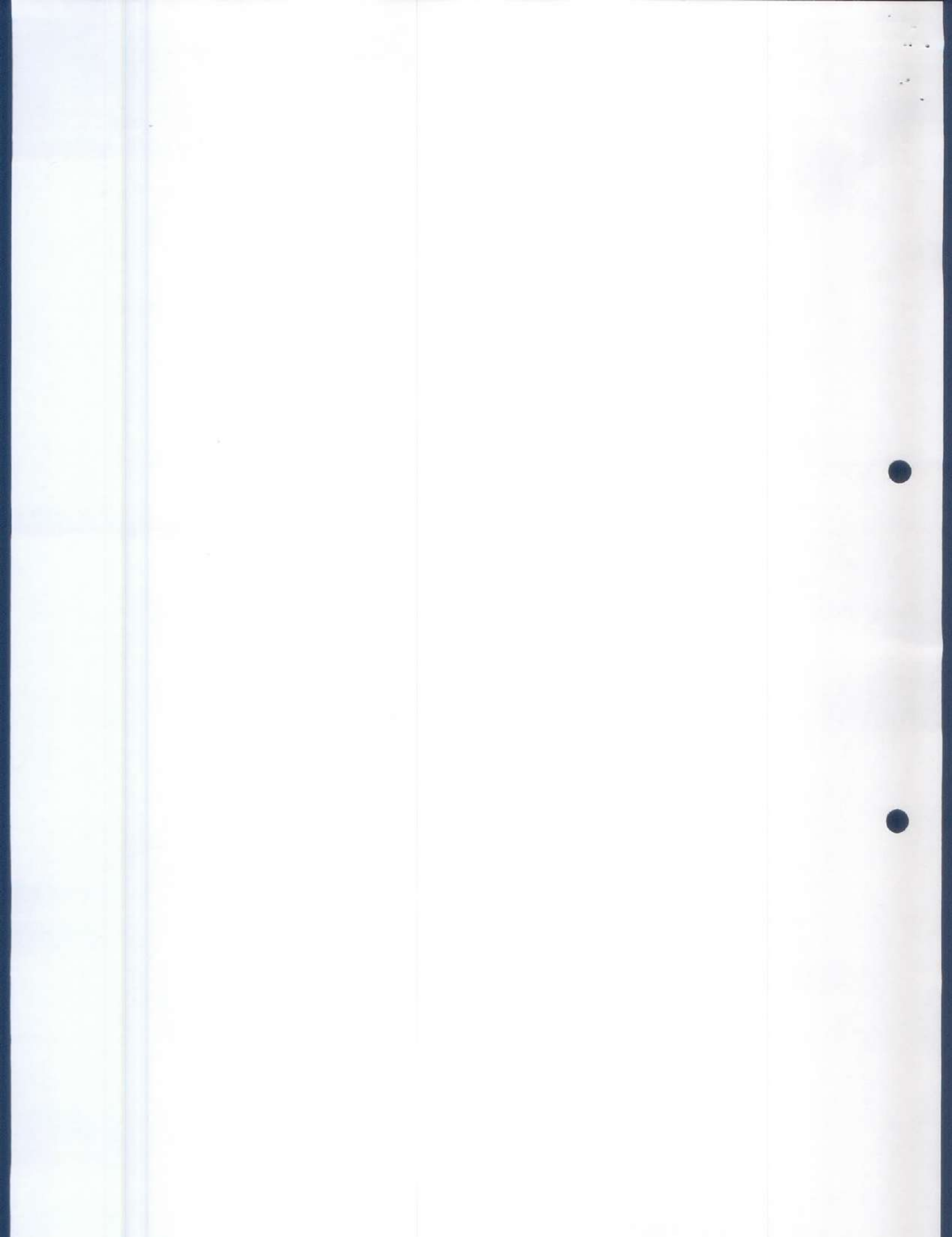
Item No.	Item Description	Unit	Technical Specification	Sample Picture
5(1)	Insulated Torque Wrench M10, M12, M13 (for IPC)	SET	<p>Insulated Torque wrench for IPC connection 10 Pc - 3/8" Insulated Socket Set Socket Sizes: 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 17mm & 19mm 5" Insulated Extension 3/8" Drive Insulated Ratchet Packed In Moulded Box 10,000 Volt Tested & 1000 Volt Rated.</p>	
5(2)	Insulated Adjustable Wrench 12"	NO	<p>Insulated Adjustable wrench. Chrome-plated Tool, plastic dipped insulated handle conforming to insulation standard: IEC 60900, DIN EN 60900, 1000 volts, Overall Length: 12 inches, Maximum capacity: 24mm.</p>	
5(3)	Ring Wrench	SET	<p>Cranked, basic tool chrome plated, Chrome Vanadium steel, forged, oil-hardened conforming to insulation standard: IEC 60900, DIN EN 60900, 1000 volts, 13 Pieces: 7 mm-19 mm, Metric, complete sets in plastic box/pouch in roll.</p>	







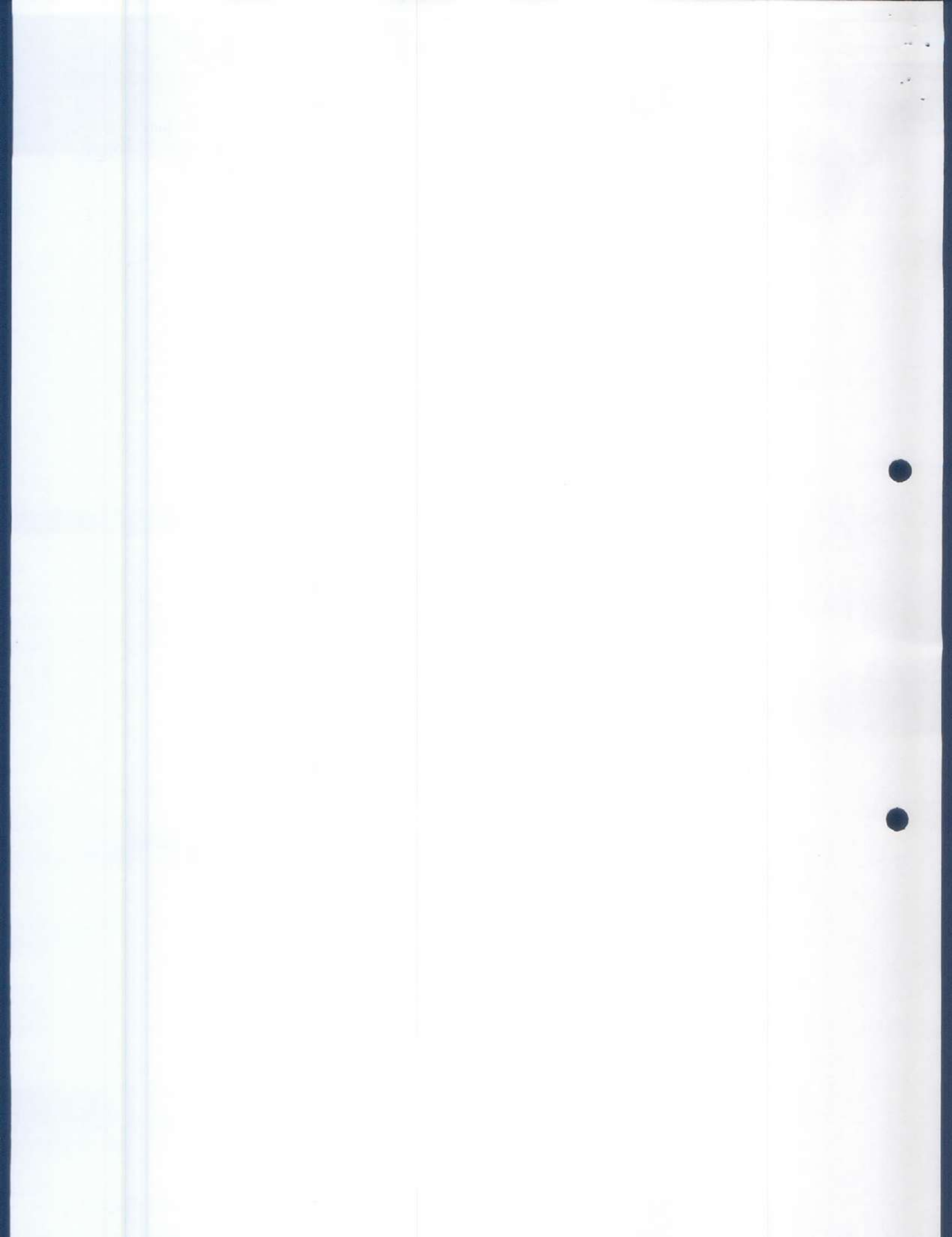
5(4)	Socket Wrench	SET	<p>Insulated Socket Wrench Set: Reversible ratchet handle, Chrome plated basic tool, Chrome vanadium steel, Insulation standard: IEC 60900, DIN EN 60900, 1000 volts, 19 pieces, 1/2" square drive, 5" extension bar, 10" extension bar, 1/2" drive socket set: 8mm, 10mm, 13mm, 17mm, 19mm, 20mm, 22mm.</p>	
5(5)	13 mm Insulated Wrench (Ring or Dial Wrench)	NO	<p>Basic tool chrome plated, Chrome vanadium steel, forged, oil-hardened conforming to insulation standard: IEC 60900, DIN EN 60900, 1000 volts</p>	
5(6)	17 mm Insulated Wrench (Ring or Dial Wrench)	NO	<p>Basic tool chrome plated, Chrome vanadium steel, forged, oil-hardened conforming to insulation standard: IEC 60900, DIN EN 60900, 1000 volts</p>	
5(7)	Wire grip come along for ACSR conductor (distribution)	NO	<p>Wire grip Come along for ACSR Conductor. Conductor dia: 8-18mm, Conductor area: 50-150mm², Eye size: "D": 25-38mm, Max load/WWL: 3000 kg, Breaking Load: 6000kg, Weight: 1.8 kg.</p>	
5(8)	Wire grip come along for ABC conductor	NO	<p>Wire grip Come along for ABC conductor. ABC Conductor: 4x95mm, 2-150mm², Max load/WWL: 18 kN (1.8 Ton) for self-supporting systems.</p>	

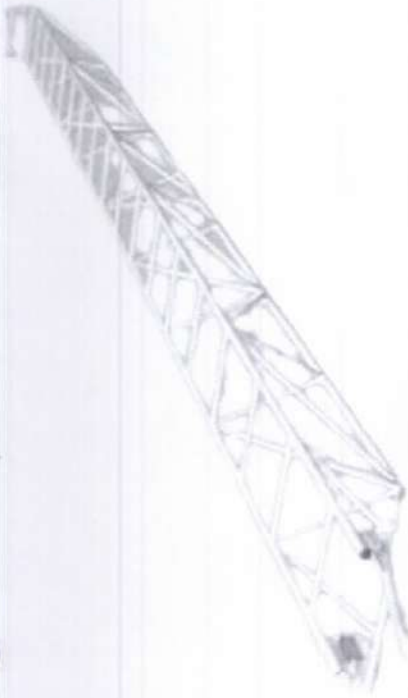





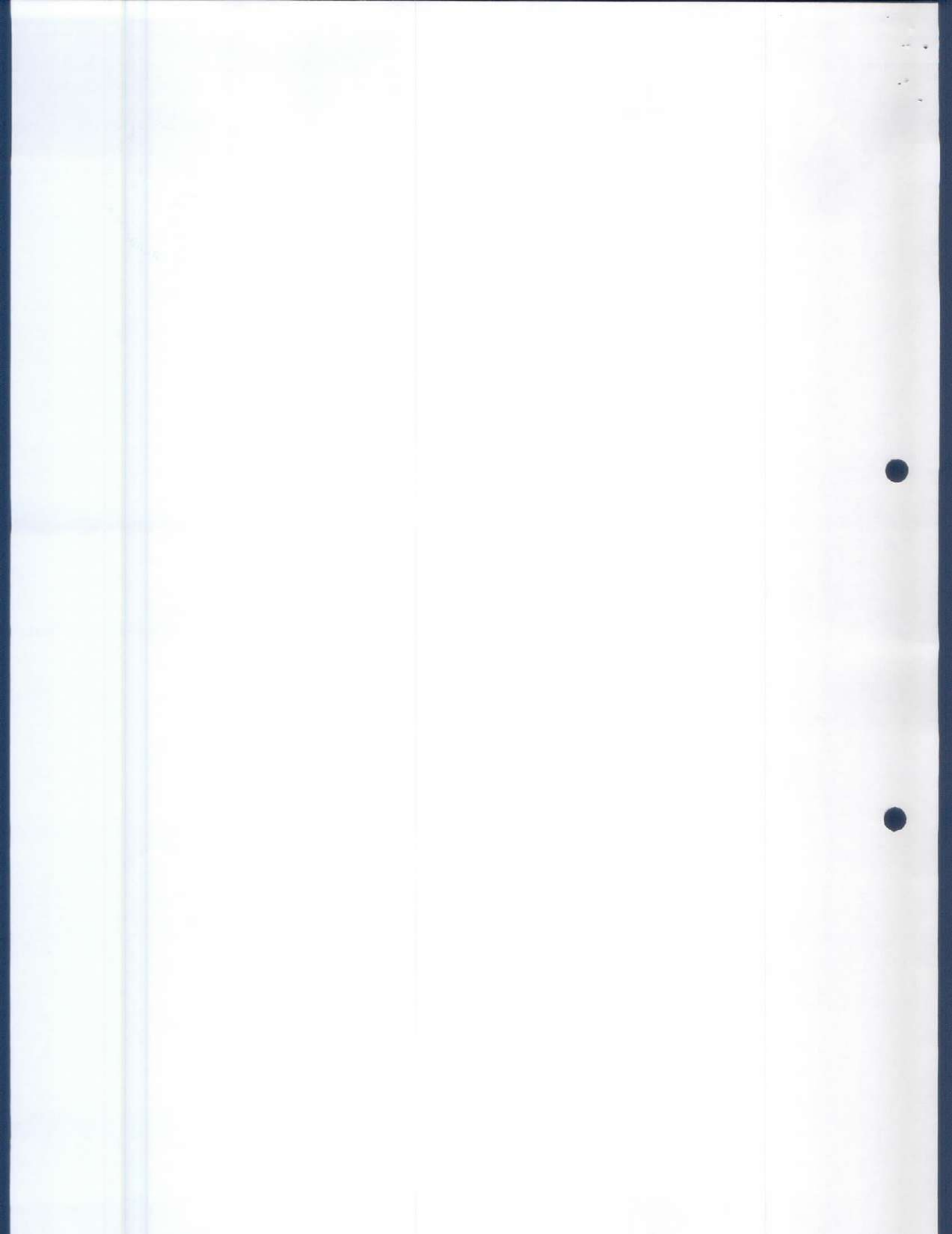
5(9)	Automatic come along clamp suitable for ACCC Silvassa, HTLS	NO	<p>Automatic Clamp ACCC Silvassa Conductor OD 14.35 mm, Parallel Jaw type must be long Jaw, Jaw length min. 185 mm</p>	
5(10)	Battery operated crimping tool, 10-400 sq.mm	SET	<p>Battery-powered hydraulic crimping tool for crimping copper and aluminium conductors with cross-sections 10-400 sq. mm along with hexagonal dies of 10, 16, 24, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400 mm² sets. Crimping Force: 80-130kN, Crimping type: hexagon crimping, Stroke: weight<7kg, Package: Plastic case, Charger: 18V-230V, Li-ion interchangeable dies and wide crimping. Features must include:</p> <ul style="list-style-type: none"> • Crimp head with snap closure • 360-degree rotatable crimp head with quick opening and closing • Integrated LED light for illuminating work area • 3 years or 20000 work cycles warranty 	








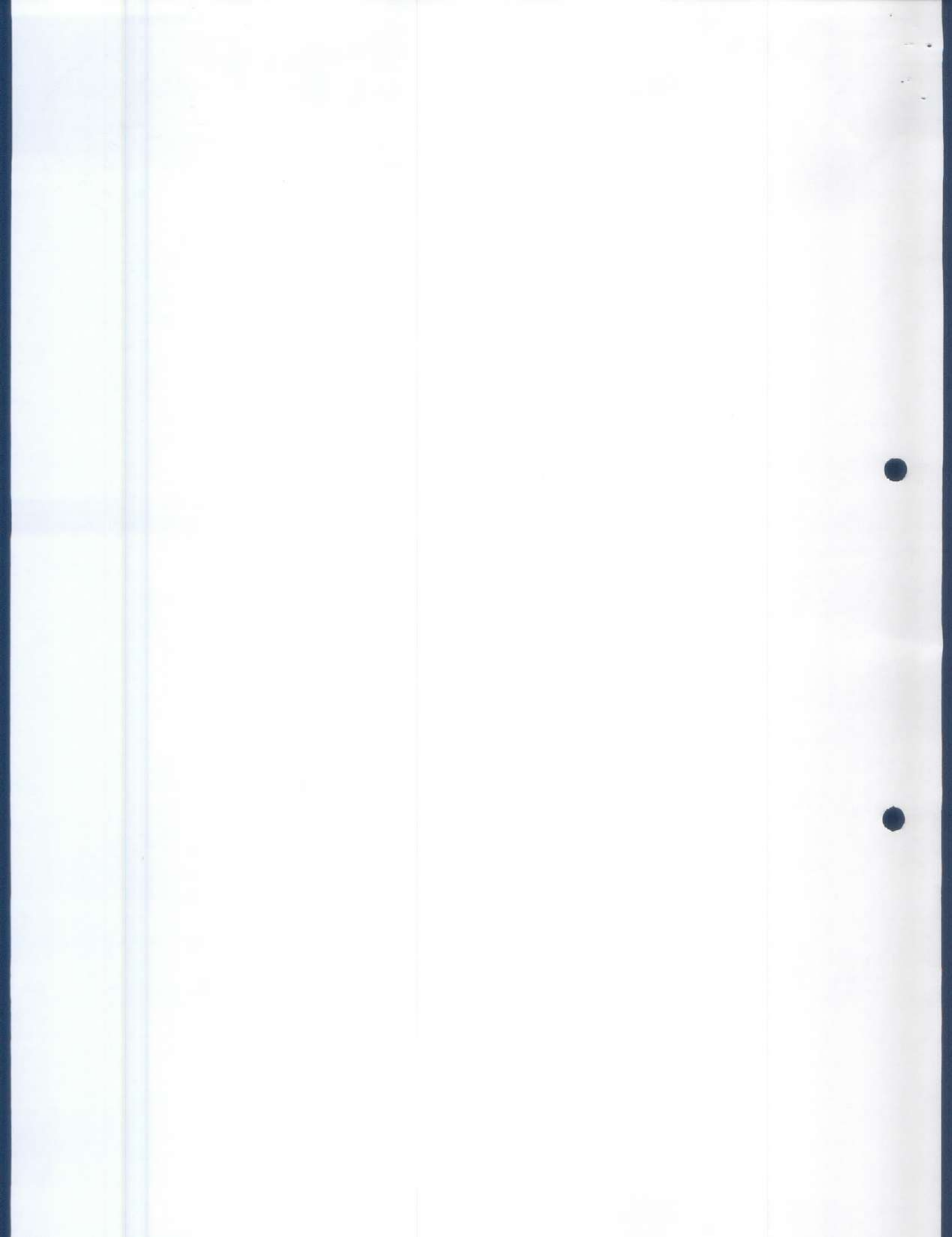
5(11)	Sagging Bridge, 400kV	SET	<p>Suspension platform/bridge with trapezoidal section, total bridge length 9 meters in two sections, structure made of tubular aluminium alloy/GI along with all necessary accessories, the bridge must be suitable to use while working on 400kV transmission lines.</p>	
5(12)	Electricians Tool Kit	SET	<p>Electricians Tool Kit with a shock-resistant plastic case, foam inserts with recesses for the tools, fixable partition wall containing following Tools (26 Pieces) conforming to Insulation standard: IEC 60900, DIN EN 60900, 1000 volts: 1 no. 8" Combination Plier, 1 No. 6¼" Diagonal Cutter, 7 Nos. Open End Wrench- 10, 11, 12, 13, 14, 17 & 19mm, Dismantling knife for round cable, 3 nos. screwdrivers for slotted screws: 25, 35 & 40mm, 3 Nos screwdrivers for crossed-recessed (Phillips): 00, 01, 02, 1 No T-handle, 7 Nos. Hexagon socket for hexagonal screws/bolts: 10, 11, 12, 13, 14, 17 & 19mm, 1 No Cable knife.</p>	








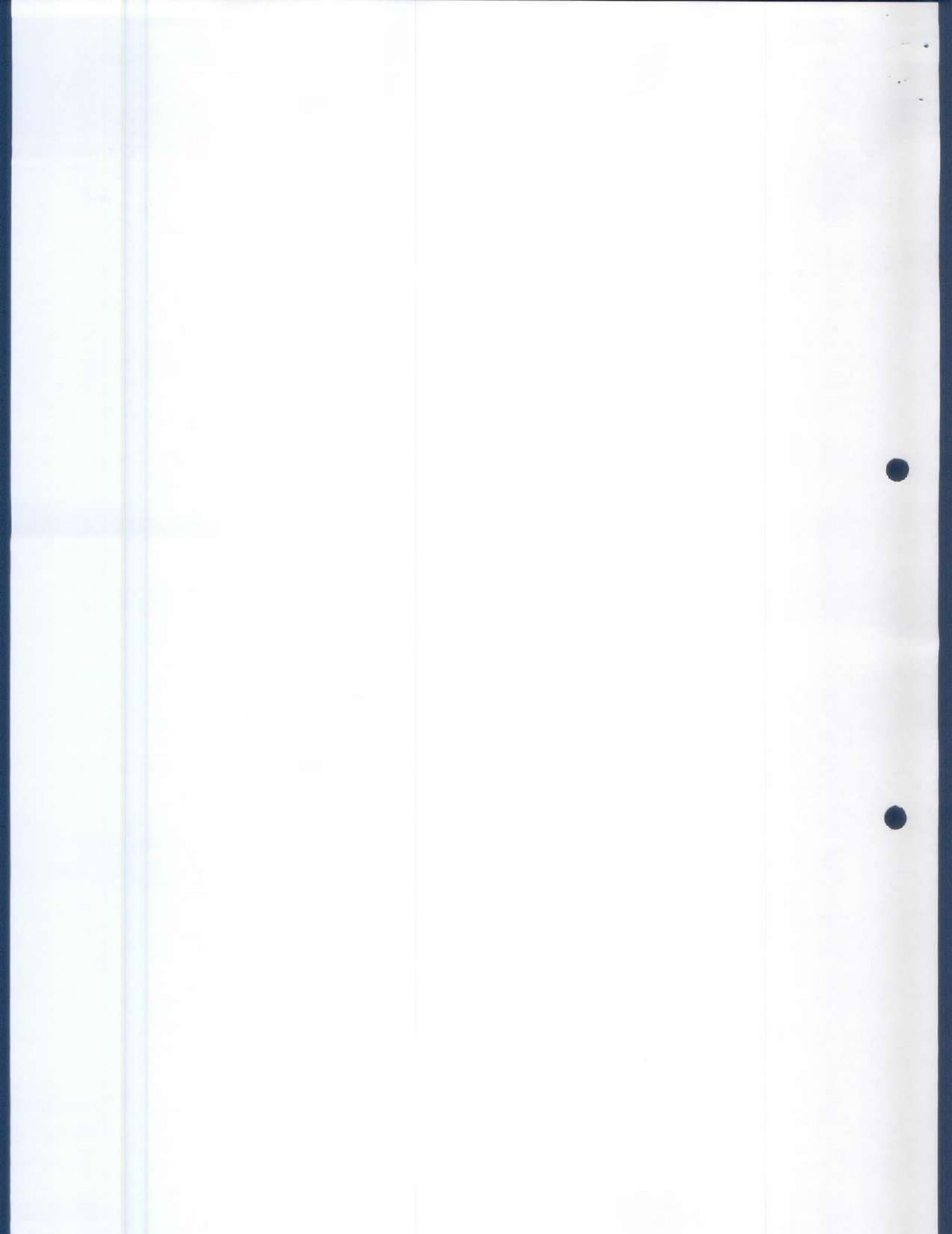
5(13)	Crimping Tool (16-630sqmm) manual type	SET	<p>Two Stage hydraulic system, reducing the number of pumping.</p> <p>Quick opening and closing head, rotatable 180°.</p> <p>Reversible or simple interchangeable dies, Ball Plunger can fit dies of 30 to 38mm width. Automatic release with an audible "click" when force of 55kN is reached. Return of the piston by release trigger protected by the movable handle.</p> <p>Delivered in plastic case (490x302x90mm)</p> <p>Manual, ergonomically designed, light weight hydraulic tool for crimping of 16-630mm² connectors</p> <p>Weight: 2.5kg</p>	
5(14)	Ratchet Cable Cutter	NO	<p>Ratchet Cable Cutter with cutting capacity of copper cable, multi stranded: 60mm dia (600mm²), 1200 MCM.</p> <p>Black lacquered tool, polished head, insulated with multi component grip handles, VDE-tested conforming to Insulation standard: IEC 60900, DIN EN 60900, 1000 volts, length: 300-320mm.</p> <p>Additional features:</p> <ul style="list-style-type: none"> • 2 stage ratchet mechanism, • Clean cut, i.e. no fanning out of cable, • Dual guided rotating blade - makes it extremely stable, • Cuts up to 32 mm dia ACSR cable. 	
5(15)	Bolt Cutter	NO	<p>Grey-atramentized head, handles with multi-component grip, cutting edge length: 46mm, Head thickness: 42mm, Cutting capacities: up to 48 HRC, Length: 900-950mm.</p>	







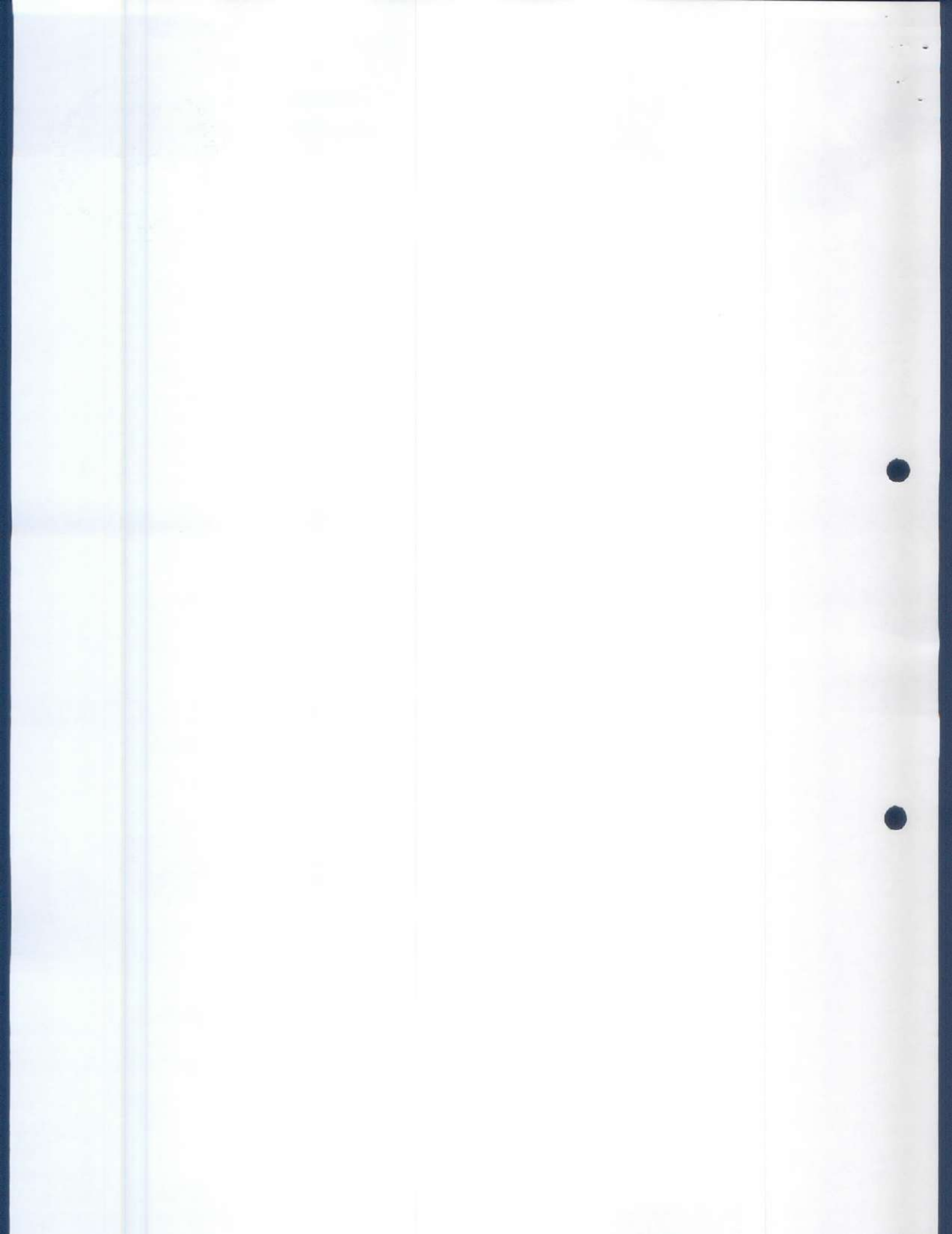
5(16)	Power chain saw Small	NO	<p>Power chainsaw with complete accessories. Displacement: 30.1 cc (1.8 cu.in.) Engine power: 1.3 kW (1.7 bhp) Guide bar length: 30 to 40 cm (12" to 16") Power head weight: 3.9 kg (8.6 lbs.) Fuel Capacity: 250 cc (8.5 oz) Chain oil capacity: 145 cc (4.9 oz)</p>	
5(17)	Hydraulic cable cutter	NO	<p>Bolt Cutter (42") Heavy Duty Bolt Cutter 430 025 High Quality with Cutting force up to 48HRc, Cutter and tube head made of special steel</p>	
5(18)	Gas Torch Flame Gun	SET	<p>Gas torch flame gun. The size and temperature of the flame should be adjustable. Wind, moisture-proof and water-proof, better than welding. Replaceable gas cans.</p>	





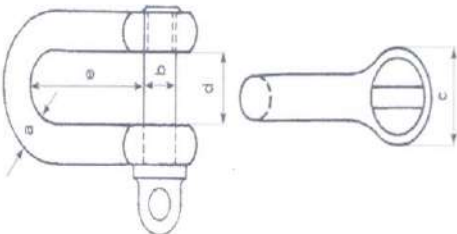

5(19)	Oil pump manually operated	NO	<p>Impeller Type, Delivery: 1", LPM: 90, Head: 7: Motor: 0.25 HP, 14000 rpm, Single phase.</p>	
5(20)	Conductor Drum Lifting Jack	NO	<p>Conductor drum lifting jack, capacity: 7 tons, to lift and hold conductor drums during tension stringing works; Its parts or bodies fabricated from alloy steel extrusion / forged steel. The central shaft rotating on taper roller bearing and the breaking arrangements provided to facilitate reducing/ stopping rotational speed of drum. It must be suitable to use during paying out conductors & earth wires in uneven terrain or when paying out is to be done from damaged conductor drums</p>	

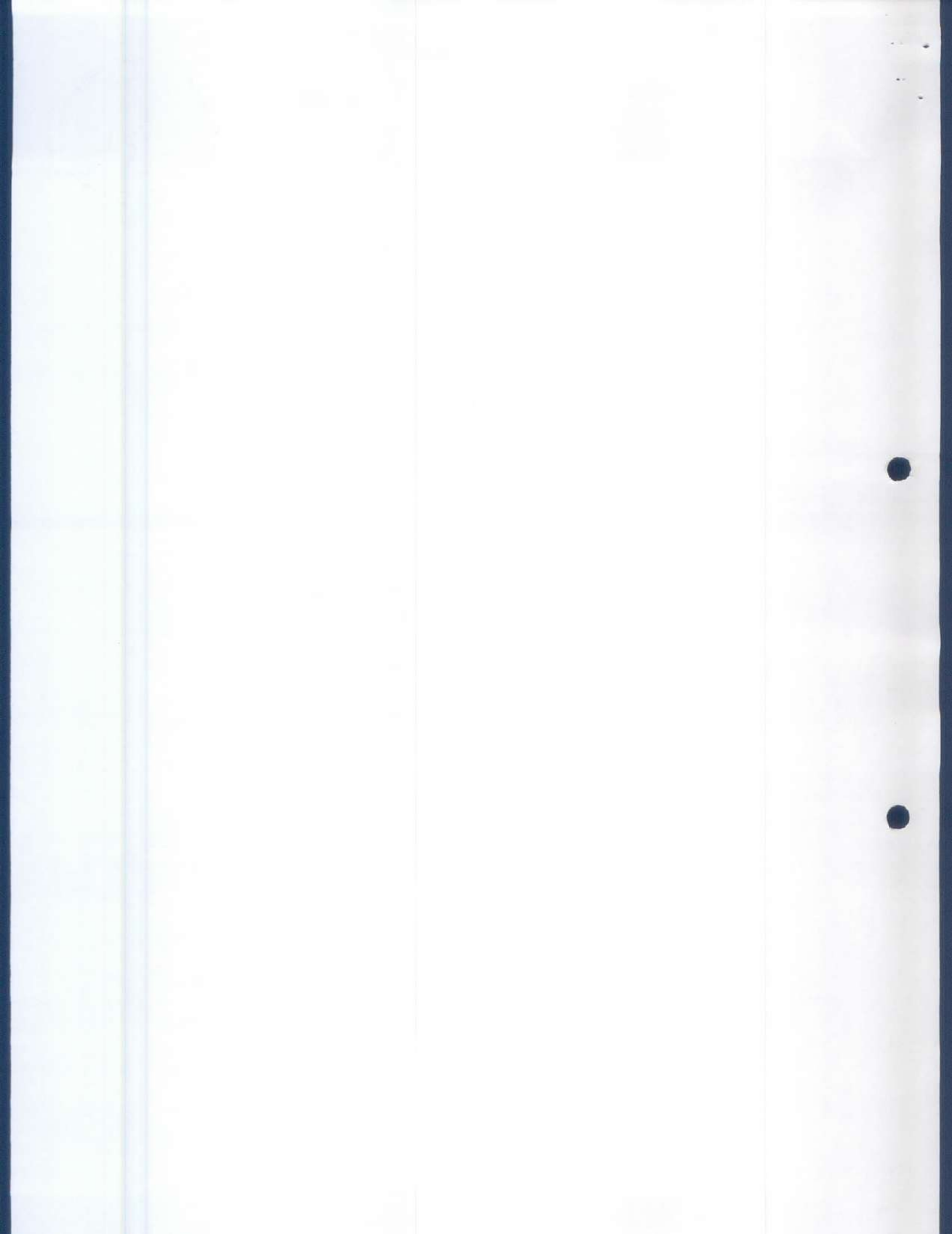






5(21)	Edward tool Harden tool box with tools(Harden tool box)	<p>NO</p> <p>Total No :77 pieces 18Pc 1/2" dr.Socket:8,9,10,1-1,12,13,14,15,16,17,18,1-9,20,21,22,24,27,30mm 1Pc 1/2" dr. Ratchet Handle 1Pc 1/2" dr. Extension Bar 1Pc 6" Long Nose Plier 1Pc 6" Diagonal Plier 1Pc 5M Tape Measure 17Pc Screwdriver Bits(3,4,5,6,7mm (+)PH1,PH2,PH-3/PZ1PZ2,PZ3/T10,T15,T20-T25,T27,T30 8Pc Screw driver:(-)3x75,4x100,5-x125,8x150,6x100mm;(+)PH-2X100,PH1X75,PH3X150mm 1Pc 10" Water Pump Plier 12Pc Combination Spanner:8,10,11,-12,13,14,15,16,17,18,19,-22mm 9Pc Hex Key :1.5,2,2.5,3,4,5,6,8,-,10mm 1Pc Metal Tool Case 1Pc 1/2" Universal Joint 1Pc 1/2" dr. Sliding Bar 10" 1Pc 6 Combination Plier 1Pc Utility Knife 1Pc Utility Knife Blades 10Pcs</p>	
5(22)	Weighing Machine Heavy Duty (0-100 kg)	<p>NO</p> <p>Digital Weighing Machine, Accuracy: 10g, Display Type: LCD Display, Weighing Capacity: 100 kg, Power Source: Battery/AC supply Pan Size: 300x400 mm, Auto Power Off: Yes</p>	 

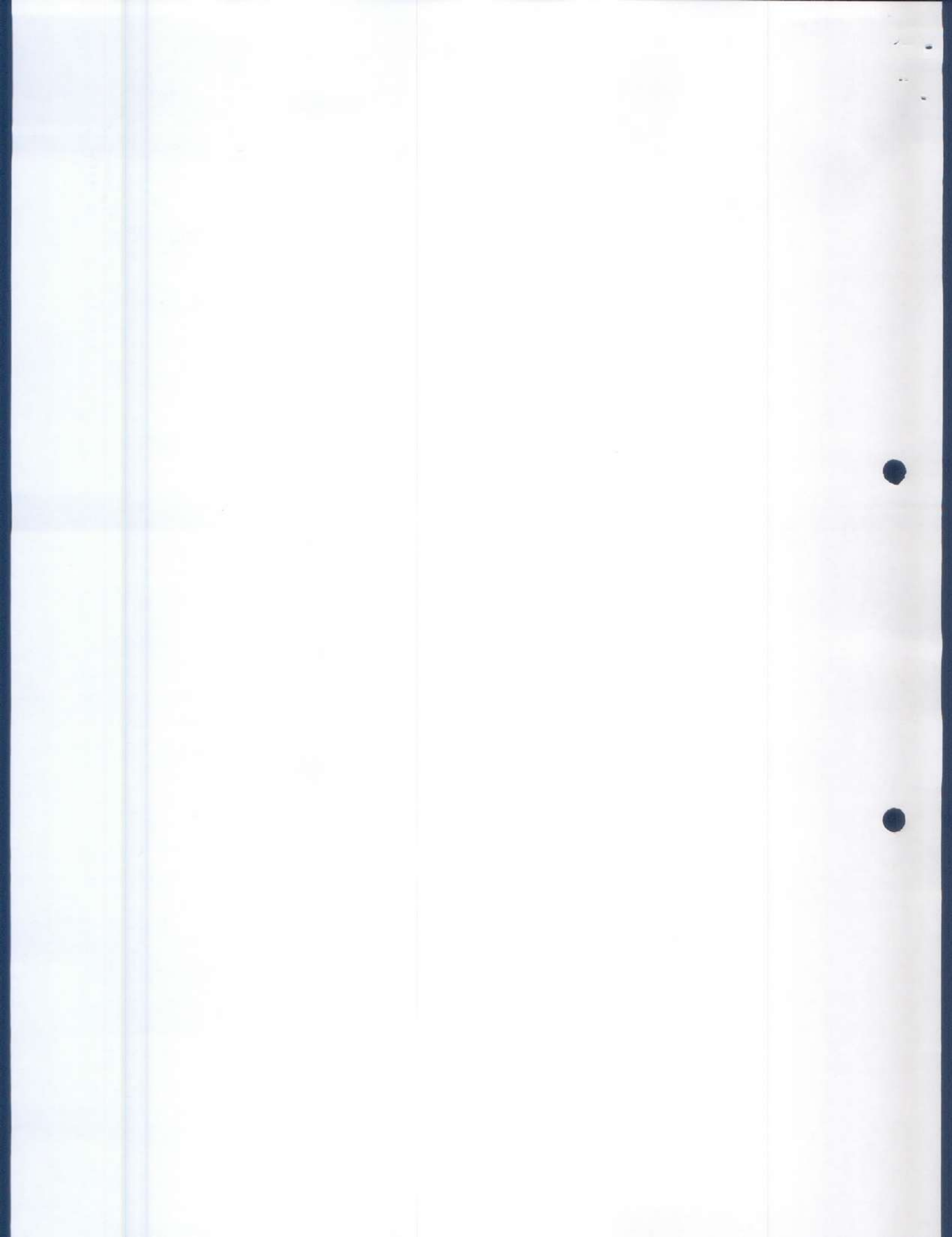



5(23)	Pneumatics Steel Strapping Combination Machine	NO	<p>Strap Size: 19mm, Strap Thickness: up to 0.70mm, Strap Quantity: Regular Tensile Steep Strapping Roll, Strap Tension: 4500N, Sealing: Single Notch, Machine Functions: Tension, Sealing & Cutting, Item Code: SA 106, Machine Speed: 5.3M per Mins, Net Weight: 4.9kg, Air Consumption: 0.5~0.7Mpa(72-100Psi)</p>
5(24)	Manual Steel Strapping Tensioner	NO	<p>Strap Size: 12mm to 19mm, Strap Thickness: Upto 0.90mm, Strap Quality: Stainless Steel Strapping Roll, Machine Function: Tensioning, Net Weight: 1.5kg, Item Code: S240.</p>
5(25)	Manual Steel trapping Sealer	NO	<p>Strap Size: 32mm, Strap Thickness: Upto 0.90mm, Strap Quality: Regular and High Tensile Steep Strapping Roll, Machine Function: Sealing, Net Weight: 3kg, Item Code: C3180</p>
5(26)	D Shackle, 6.5MT	NO	<p>Steel D shackles available with a screw type A pin Working load limit: 6.5 Ton Dia. Bow (a): 22mm Dia. Pin (b): 25mm Dia. eye (c): 25mm Width inside (d): 37mm Length inside (e): 71mm Weight: 1.43kg</p>  



5(27)	Derrick pole Specification (6+3) m	<p>Derrick poles are used during tower erection. These poles are fabricated from best quality steel pipes. The diameter of pipe depends upon the maximum bending moment acts on it during tower erection.</p> <p>Material: M.S. Color: Black Length: 9m (6m+3m) Diameter: 20-25mm</p>	 
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5(28)	Grass cutting machine	SET	<p>Backpack portable grass cutting machine</p> <ul style="list-style-type: none"> ● Stroke: 2, ● Displacement: 25cc, ● Output kW: 0.81, ● Fuel tank : 0.55 litre, ● Start system: Recoil, ● Carburettor: Diaphragm, ● Clutch system: automatic centrifugal. 	
5(29)	Thermography Camera (FLIR), T800-Series,		<ul style="list-style-type: none"> ● 180° rotating lens along with telephoto lens(12° or 6°) suitable for scanning transmission lines 	