

PRESENTATION ON

C.S.S.R

EQUIPMENTS

BY

SI/JE(C) MANKESH YADAV

INFLATABLE EMERGENCY LIGHTING TOWER



Rs. 1,78,200.00

Technical Specification

- a. Engine Type:- : 4 Stroke
- b. Cylinder Capacity:- : 148 Cc
- c. Power:- : 3.5 H.P
- d. Fuel:- : Petrol
- e. Tank Capacity:- : 7 Liter
- f. Consumption:- : 0.8 liter /hr
- g. Lubricant Capacity:- : 591 ML
- h. Lamp Power:- : 400 W
- i. Light Source:- : Metal Halide Lamp
- j. Height Of Balloon:- : 4030 mm (4.03m)
- k. Material:- : Polyester Polyurethane

Equipment Features

- a. Illuminates an area of 10,000 sq meter.
- b. 03 minutes time is needed for maximum light efficiency.
- c. Also can be used in rain with rain protection cover.
- d. Very effective for night rescue operation during any kind of disaster.

Do's

Before starting.

- a. Move choke control to choke position.
- b. Move throttle control to fast position.
- c. Turn fuel shut off valve ON if equipped.
- d. Move stop control to ON position if equipped.

Don't

- a. Do not run engine in an enclosed area.
- b. Do not refuel indoors or in an unventilated area.
- c. Do not crank engine with spark plug removed.
- d. Do not start engine without air cleaner or air cleaner cover removed.
- e. Do not move choke control to choke position to stop engine back fire or engine damage may occur

Safety Precautions

- a. After the inflation of balloon, it is to be anchored with the attached rope.
- b. While deflating, ensure balloon doesn't fall on the ground, for safety of lamp.
- c. Before deflating the tube, make sure the lamp has cooled at least for a min.
- d. Before operating, ensure that the machine is positioned on a solid, flat surface.
- e. Before Inflating Balloon, Check the height of over head surface, Where the Tower is to be inflated.

VENTILATOR



Rs. 69,000.00

Technical Specification

- a. Engine:- : 3.5 H.P
- b. RPM engine:- : 3600 rpm
- c. Air Flow:- : 3600 cub. M/Hr
- d. Fuel Tank Capacity:- : 3.8 Liter
- e. Inlet size:- : 300mm
- f. Outlet size:- : 300mm
- g. Frame size:- : 32" x 28" x28"
- h. Suction pipe length:- : 7 meter
- i. Discharge pipe length:-: 20 meter

Equipment Features

- a. To suck & pump out the dust & hazardous fumes.
- b. To avoid suffocation for victim and rescuers.
- c. Enhance the working capability of the rescuers.
- d. Protect the victim and rescuers from the danger of gases also.

Do's

Before starting

- a. Move choke control to choke position.
- b. Move throttle control to fast position.
- c. Turn fuel shut off valve ON if equipped.
- d. Move stop control to ON position if equipped.

Don't

- a. Do not run engine in an enclosed area.
- b. Do not refuel indoors or in an unventilated area.
- c. Do not crank engine with spark plug removed.
- d. Do not operate engine without muffler. Inspect periodically & replaced if worn or leaking.
- e. Do not start engine without air cleaner or air cleaner cover removed.
- f. Do not move choke control to choke position to stop engine back fire or engine damage may occur

Safety Precautions

- a. Attach all accessories before starting Engine.
- b. Extend delivery & suction pipe to full length.
- c. Before operating, ensure that the machine is positioned on a solid, flat surface.

LIFE DETECTOR-I



Rs. 6,98,544.00

Technical Specification

- a. LD3 Display interface-consisting six sensor channel bars.
- b. Power :rechargeable battery
- c. Sensor : two sensor 1) seismic sensor 2)acoustic sensor.
- d. Cable : six cable each cable 10 meter length.
- e. Vibrated detected range: 10 meter each sensor.

Equipment Features

- a. Help to vibration movement in smoke, dust in collapse building.
- b. To conducted the primary search and secondary search.
- c. It has two communicated ways system.
- d. Detect live even motion less body, buried in debris.

Do's

- a. Connect all cables in proper sequence.
- b. Place the sensor in a line to cover maximum area .
- c. Circle/Mark the sensor which show maximum signal .
- d. After knowing the location use acoustic sensor.

Don't

- a. Do not allow rescuer/bystanders to make any move within the range of equipment.
- b. Don't place sensor on slope.
- c. Don't expose the spikes in to water.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Keep away from heat and light.
- c. Place the sensor on clean structure.
- d. Do not place the sensor on soft sound absorbing material such as carpet, fiberboard and dry wall.
- e. Place the sensor in the orientation.

LIFE DETECTOR-II



Rs. 14,91,873.00

Technical Specification

- a. The life guard works by passively detecting the ultra low frequency (ULF).
- b. Detect the human heart and dielectric material.
- c. No detection on dead bodies or graves.
- d. Non detection of animal- Pigs, Orangutans, Great Apes.

Technical Specification

- e. It does not interfere with other sensors.
- f. Power- the power is supplied by batteries.
- g. Range up to 500m (open air).
- h. Field of view in open air-120 degree.
- i. Field of view in composite structure-80 to 100 degree.

Equipment Features

- a. Helps to locate victims in Smoke filled, dark and High temperature conditions.
- b. The life detector is used disaster search and security search. Mine rescue.
- c. Helps to locate victims through obstacles.
- d. Finds only living people.
- e. Fast, efficient response.
- f. Life detector posses on threat.

Do's

- a. Point the Rod towards earth for zeroing before operating the equipment.
- b. Scan the area systematically.

Don't

- a. Do not allow rescuer/bystanders to make any move within the range of equipment
- b. Do not Point the Rod towards earth during search.

Safety Precautions

- a. Extend Range Adjustment Device according the area to be searched.
- b. Hold equipment carefully while moving on rubble.
- c. Keep the equipment away from heat & fire.

HYDRAULIC CUTTER CUM SPREADER



Rs. 5,20,182.37

Technical Specification

- a. Spreading Force:- : 40 to 80 KN.
- b. Spreading Distance:- : 750 mm
- c. Weight:- : 13.7 kg
- d. Pulling distance:- : 400 mm
- e. Max. pulling Force(without chain set):- :
40KN
- f. Working Pressure:- : 630bar
- g. Max. Cutting Force:- : 300KN.

Equipment Features

- a. Facilitates spreading, Pulling peeling and cutting.
- b. Especially mangled vehicle parts in accidents.
- c. The arms can be loaded over their entire length.
- d. Equipped with non kinking hydraulic hose pair.

Do's

- a. Connect all accessories properly.
- b. Check for Oil leakage.

Don't

- a. Do not cut load bearing object.
- b. Don't place inlet and outlet pipe on hot surface.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Work in pair and use all required PPE .
- c. Don't operate it in explosive atmospheres.
- d. Keep children and by standees away while operating it.
- e. Don't expose it to rain or wet condition.
- f. Don't overreach. Keep proper footing and balance at all times.
- g. Don't force it while cutting object

VICTIM LOCATION SEARCH CAMERA



Rs. 4,65,525.00

Technical Specification

- a. 12 volt DC powered.
- b. Total Weight-3.5 kgs (approx)
- c. 6.4" LCD monitor.
- d. Colour Image Sensor
- e. Total Nos of pixels-4,70,000 pixel.
- f. Lens-Angular view-130 deg.
- g. Viewing Distance – 6m to 15m in total darkness.
- h. Microphone: High sensitivity with variable gain amplifier.

Equipment Features

- a. Water Proof Function
- b. Rechargeable Battery pack , 15 minutes for usable.
- c. Charged condition, 30 min for fully charged.
- d. Can be operated with the cable probe which connect top camera head and optional extension cable (20 m, 30 m & 50 m) without telescoping rod.
- e. It helps to locate victims through inspection holes made on structures to confirm the exact location of lying victims before breaching the structure to gain access.

Do's

- a. Make suitable inspection hole first.
- b. Check equipment frequently for better result even during operation.

Don't

- a. Don't use equipment carelessly.
- b. Don't operate camera in damp place.
- c. Don't use equipment carelessly.
- d. Don't operate camera in damp place.

Safety Precautions

- a. Do not use the TV camera and monitoring system in locations where intense radio waves are emitted or where there are radioactivity rays.
- b. It should not be stored where excessive high temperature is prevalent.
- c. Equipment should not be used in location where there are intense magnetism, it may cause trouble.
- d. Wipe off dirt with a soft cloth or tissue paper.
- e. Keep the unit away from heating equipment.
- f. Lens should be protected from dust & smoke for clear visibility.

BREACHING UNIT FOR MAKING INSPECTION HOLE



Rs. 1,38,320.00

Technical Specification

- a. Weight:- : 4.9kg.
- b. Recommended drill size:- : Dia1/2 inch
- c. Engine type:- : Air cooled 2 cycle gasoline engine.
- d. Fuel tank capacity:- : 0.57liters.
- e. Spark plug:- : NGK BPMR7A.
- f. Ignition system:- : Transistor controlled flywheel magneto.
- g. Starting:- : Recoil starter.
- h. Fuel mixture:- : Gasoline 50:2 cycle.

Equipment Features

- a. Helps to locate victim without breaking whole obstacle.
- b. Use to make an inspection hole.
- c. It can perform multi operations like drilling.
- d. Having cooling system can work for long duration.
- e. Easily penetrate through concrete wall having made with inclusion of iron and other metallic material.

Do's

- a. Assemble all accessories properly.
- b. Mark the area to make hole.

Don't

- a. Do not drill without water.
- b. Don't force equipment hard.

Safety Precautions

- a. Used PPE correctly.
- b. You must have safety man.
- c. Keep the engines running at full throttle during operation.
- d. Always hold unit firmly with both hands on handles and body well balanced.
- e. Operate at a high engine speed and let drills bit do the work. Do not force bit into hole.
- f. Drill straight. Tilted boring can cause the drill to bend.

ECO GENERATOR SET



Rs. 45,459.34

Technical Specification

- a. Model:- : EG2800ADS
- b. Rated O/P (VA):- : 2200VA
- c. Rated Voltage:- : 220V
- d. Frequency:- : 50Hz
- e. Dry Weight:- : 115.5 kg
- f. Type:- : 4 Stroke
- g. No of Cylinder:- : 01 No
- h. Displacement:- : 256 cc
- i. Fuel:- : Petrol Start (01L)
: Kerosene Run(13L)
- j. Lube Oil Capacity:- : 950 ml

Equipment Features

- a. Emergency Power supply.
- b. Compact and easy to carry up to the Operational site.
- c. Being Silent it creates less vibration/noise.
- d. In CSSR operation, equipments up-to 2200VA can be easily run

Do's

- a. Place Generator on flat surface.
- b. Check POL before use.

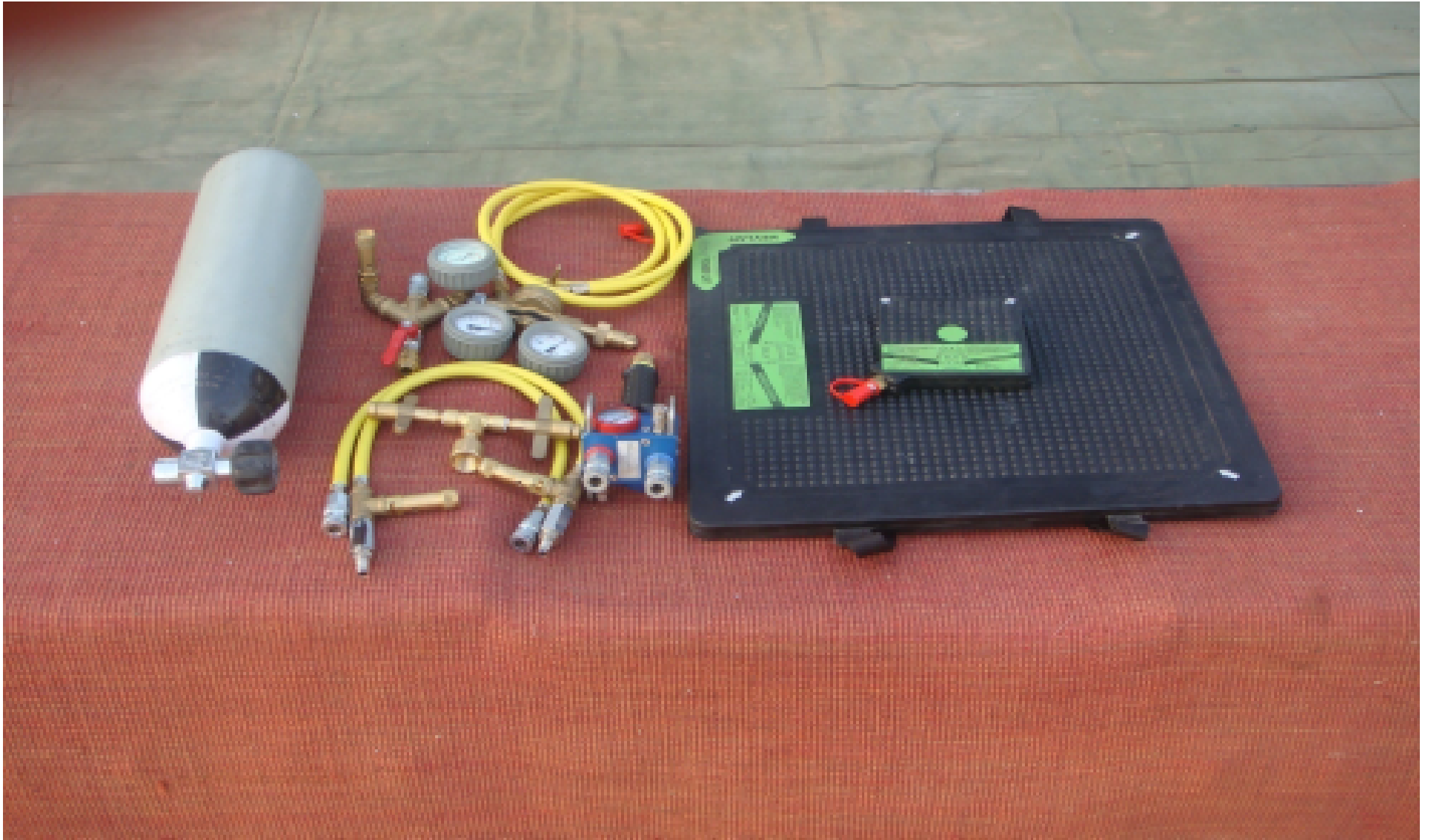
Don't

- a. Don't refill fuel in running condition.
- b. Don't use in confine space.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Work in pair and use all required PPE.
- c. Don't use in a confined space.
- d. Equipment not to be installed at a place where concrete cutting equipments are running, spark can cause fire.
- e. Before operating, install at a flat and firm place.
- f. Fire extinguisher should be placed with Gen-set at operation site.

AIR LIFTING BAG SET WITH AIR CYLINDER



Rs. 9,36,328.00

Technical Specification

- a. Mini lifting Bag Type V 68.
- b. Lifting capacity:-: 72 Ton.
- c. Size:- : 36" x 36"
- d. Lifting Height: : up to ½ Mtr.
- e. Material:- Neoprene reinforced
with steel wire.
- f. Operating Pressure:-: 8 bar.

Equipment Features

- a. Used to lift heavy loads to rescue victims trapped underneath.
- b. Can be used in lifting vehicles.
- c. Easy to operate.
- d. Can be operated from within a space of inches.
- e. Can be easily inserted into a narrow place.

Do's

- a. Check for lifting capacity of Air Lifting Bag before use .
- b. Use cribs to stabilize load immediate after lifting

Don't

- a. Don't place near fire /hot environment .
- b. Don't replace/remove any accessories while Equipment is in use

Safety Precautions

- a. Keep work area clean and clear.
- b. Work in pair and use all required PPE.
- c. Never work under loaded object.
- d. Never put more than three bags one upon another.
- e. Check the oil and grease spots which can cause air bags to slide.
- f. Check the nozzle for any damage which can disable the connection.
- g. Do not operate the equipment under the influence of drugs/alcohol.

ROTARY RESCUE SAW



Rs. 81,999.71

Technical Specification

- a. Engine type:- : 60 CC petrol driven, 2-stroke IC Engine.
- b. RPM:- : 5400
- c. Fuel capacity:- : 02 liter
- d. Adjustable blade guard.
- e. Diamond tip blade, abrasive blade and carbide blade generally used.
- f. Petrol and oil ratio:- : 1:25

Equipment Features

- a. Mostly 03 types of blade can be used easily.
- b. Can be used for breaching concrete, metal, bricks structures and cutting of wood, depending on the type of blade being used.
- c. Easy to handle.
- d. Help in access to victim.

Do's

- a. Must have safety man.
- b. Ensure that the blade is properly fixed and is not shaking.
- c. Adopt comfortable position. Do not over reach.
- d. Use appropriate blade for appropriate material.
- e. Cut in the direction of the rotation of the wheel.
- f. Ensure that the blade is perpendicular to the substance being cut.

Don't

- a. Do not pull the “Recoil starter grip” to its full length.
- b. Do not operate the equipment in confined space.
- c. Do not operate where inflammable material is stored.
- d. Do not force the equipment.
- e. Do not lend the equipment to untrained person.
- f. Do not operate when you are tired or weary.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Work in pair and use all required P.P. E.
- c. Keep children and bystander away while operating this tool.
- d. Ensure that the blade is properly fixed and is not shaking.
- e. Do not run the engine in confined place.

Safety Precautions

- f. Cut in the direction of the rotation of the wheel.
- g. On diamond blades cool with water continuously to avoid heat build-up which could break down the blade, causes parts to be thrown off and result in injury.
- h. Never carry service or refuel the tool with the engine running.

ANGLE CUTTER



Rs. 49,000.00

Technical Specification

- a. Full name:- : DCH300 diamond cutter.
- b. Power source:- : Electric 220v.
- c. Dimensions:-:705mmx240mm x235mm.
- d. Weight:- : 9.4kg.
- e. RPM:- : 4900.
- f. Disc arbor size:- : 22.2mm.
- g. Cutting disc:- : max. 305mm.
- h. Cutting thickness:-: max. 3.5mm.

Equipment Features

- a. Breaching concrete, hard concrete and metal, brick structures.
- b. Blades can be changed as per the material to be cut.
- c. Cutting mineral material with diamond disc without use of water.
- d. It is fitted with an optional depth gauge.

Do's

- a. Check power source.
- b. Attain full RPM before cutting.

Don't

- a. Do not handover equipment in start condition.
- b. Don't use blade of less RPM than prescribed for Machine.

Safety Precautions

- a. Keep work area clean and clear.
- b. Work in pair and use all required PPE .
- c. Don't operate it in explosive atmospheres.
- d. Keep children and bystander away while operating it.
- e. Don't expose it to rain or wet condition.
- f. Don't overreach. Keep proper footing and balance at all times.
- g. Don't force it while cutting object.

DIAMOND CHAIN SAW



Rs. 4,19,000.00

Technical Specification

- a. Engine:- : 2 stroke
- b. Displacement:- : 101 c.c
- c. Fuel:- : 25: 1
- d. Fuel capacity:- : 01 liter
- e. Spark plug:- : BWS7F
- f. Cutting Length:- : 12" to 16"
- g. Weight:- : 12.5 kg.
- h. Water requirement:- : 20-160 psi

Equipment Features

- a. It is used to cut the concrete slab.
- b. It gives best result in vertical direction cutting.
- c. It can also be used for plunge cuts.

Do's

- a. Attain full RPM before cutting.
- b. Care for cuttings piece which may hurt the rescuer.

Don't

- a. Do not stop saw in between material.
- b. Don't fill fuel in starting condition.

Safety Precautions

- a. Keep work area clean and clear.
- b. Check the fitting/assembling of chain properly.
- c. Do not operate power tool in the presence of flammable liquids, gases and explosives.
- d. Work in pair and use all required P.P.E.
- e. Make proper posture and do not overreach.

Safety Precautions

- f. Keep children and bystander away while operating a power tool.
- g. Operate tool with solid footing and grip. Remove excess slurry on ground.
- h. Be aware of water hose to avoid tripping.
- i. Never carry service or refuel the tool with the engine running.

BULLET CHAIN SAW FOR CUTTING WOOD



Rs. 85,050.00

Technical Specification

- a. Engine power:- : 6H.P
- b. Engine type:- : 2 stroke
- c. Idle speed:- : 2500 rpm
- d. Max. speed:- : 13500rpm
- e. Spark plug:- : NGKBPMR7A
- f. Fuel capacity:- : 0.8 lit.
- g. Fuel:- : 25:1
- h. Oil capacity:- : 0.325lit.
- i. Weight:- : 6.8k.g
- j. Bar length:- : 75c.m
- k. Groove length:- : 1.6m.m

Equipment Features

- a. High speed wood cutting tool
- b. It can cut horizontally as well as in angle.
- c. It can cut up to a depth of about $\frac{1}{5}$ to $\frac{1}{3}$ of the trunk diameter

Do's

- a. Attain full RPM before cutting.
- b. Care for cuttings piece which may hurt the rescuer.
- c. Firstly try to use vertically due to heavy weight.

Don't

- a. Do not stop saw in between material.
- b. Don't fill fuel in starting condition

Safety Precautions

- a. Keep work area clean and clear.
- b. Do not operate power tool in the presence of flammable liquids, gases and explosives.
- c. Work in pair and use all required P.P.E.
- d. Do not overreach.
- e. Keep children and bystander away while operating this tool.
- f. Do not operate the power tool under the influence of drugs/alcohol.
- g. Never carry service or refuel the tool with the engine running.

CIRCULAR SAW



A

Rs. 81,999.71

B

Technical Specification (A)

Voltage:-	: 120 V
Ampere:-	: 15 A
Blade diameter:-	: 415 mm
Max cutting capacity at 90'	: 158mm
at 45'	: 106mm
Frequency:-	: 50 Hz
No-load RPM:-	: 2300/min
Overall length:-	: 616 mm
Net weight:-	: 13Kg

Equipment Features

- a. Steel & Carbide tipped saw.
- b. Blade effective for wood cutting.
- c. Cutting equipment with the desired angle 0'- 45'.
- d. Blade guard for protection of blade.
- e. Adjustable angular cutting device.

Do's

- a. Attain full RPM before cutting.
- b. Care for cuttings piece which may hurt the rescuer.

Don't

- a. Do not allow rescuer /bystanders to make any move within the range of equipment .
- b. Do not stop saw in between material.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Work in pair and use all required P.P.E.
- c. Keep children and bystander away while operating this tool.
- d. Guard against electric shock and kick back.
- e. Do not abuse the cord keep away from heat, oil and sharp edges.
- f. Do not operate the equipment in damp weather.

COME ALONG



Rs. 1,56,645.00

Technical Specification

- a. Four piece hoist system (mast, davits, upper offset mast and base).
- b. Mast extension length 57"(1448 mm).
- c. Three piece portable bases.
- d. Constructed of powder-coated aluminum.
- e. Weighing capacity-205kg.
- f. Speed capable of retrieval/descent-13 ft/min up to 30 ft/min.
- g. Diameter cable/rope-5 mm.
- h. Length of cable/rope- 100 mtr.
- i. Foldaway crank weight-8 kg

Equipment Features

- a. Easy to operate.
- b. Portable, easy to carry after de-assembling in parts.
- c. Perfect for rescue of victim from confined space like well, hole and pit etc.
- d. Can be assembled and adjusted easily for rescue operation even in worse condition of space.

Do's

- a. Check for any knot/damage in rope .
- b. Place equipment on flat surface with help of wooden plank.
- c. Ensure the stability of equipment with ground.

Don't

- a. Do not overload the equipment.
- b. Don't attach any rope with the rope originally supplied with equipment to avoid accident.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Work in pair and use all required PPE.
- c. Never work under crank.
- d. Don't try overload to retrieval/descent over 2272 kg.
- e. Make sure that double locking swivel snap hook must be fitted properly.

ELECTRIC DRILL



Rs. 1365.00

Technical Specification

- a. Model:- : 6535 (F0156535)
- b. Max O/P (W):- : 400 W
- c. Rated Voltage:- : 220V
- d. Weight:- : 1.4 Kg
- e. Frequency:- : 50Hz
- f. Max Speed:- : 0-3000 RPM
- g. Drilling Capacity Iron:- : 10mm
Aluminum:- : 13mm
Wood:- : 25mm

Equipment Features

- a. Electric run, easy to handle.
- b. light weight, easy to carry.
- c. Adjustable for use of multi bit for drilling according to need.
- d. Can be used in confined spaces due to light in weight.
- e. Can be used for drilling in wall, concrete, wood, Iron and aluminum.

Do's

- a. Guard against electric shock.
- b. Use only right tool and right accessories.
- c. Make sure drill is switched off and plugged off before inserting drill bit.
- d. Keep it clean and dry free from oil and grease.
- e. Remove the bit before storing the Equipment.

Don't

- a. Do not force the tool.
- b. Do not abuse cord, keep away from heat, oil and sharp edges.
- c. Do not over reach, keep proper footing and balance.
- d. Do not operate when the equipment is damp or in damp weather condition.
- e. Don't carry plugged-in tool with finger on switch.
- f. Be sure switch is off when plugging

Safety Precautions

- a. Keep work area clean and clear.
- b. Use all required P.P.E.
- c. Ensure that the bit is properly fixed and is not shaking.
- d. Guard against electric shock and kick back.
- e. Do not abuse the cord keep away from heat, oil and sharp edges .
- f. Do not operate the equipment in damp weather .

ROTARY HAMMER DRILL



B



Rs. 5,641.65

C



Technical Specification (A)

- a. Power:- : 650w
- b. Voltage:- : 220v
- c. Ampere:- : 2.9a
- d. Frequency:- : 50-60hz
- e. Weight:- : 2.9k.g
- f. Speed:- : 1200rpm(1st gear)
: 2500rpm(2nd gear)
- a. Hammering Action:- : 1.8nm.

Equipment Features

- a. Electric run, easy to handle.
- b. Light in weight, easy to carry.
- c. Rotary Hammer Drilling, low physical fatigue .
- d. Drilling being done by using the depth gauge with forward and reverse rotation.
- e. It can drill concrete, wood and metal surfaces.

Do's

- a. Guard against electric shock.
- b. Use only right tool and right accessories.
- c. Make sure drill is switched off and plugged off before inserting drill bit.
- d. Keep it clean and dry free from oil and grease.
- e. Store it in its proper place. Keep out of reach of children.

Don't

- a. Do not force the tool.
- b. Do not abuse cord, keep away from heat, oil and sharp edges.
- c. Do not over reach, keep proper footing and balance.
- d. Do not operate when the equipment is damp or in damp weather condition.
- e. Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.

Safety Precautions

- a. Keep work area clean and well lit.
- b. Do not operate power tool in the presence of flammable liquids, gases and explosives.
- c. Work in pair and use all required P.P.E.
- d. Do not overreach.
- e. Keep children and by-stander away while operating a power tool.
- f. Switch off the power tools as soon as the tools insert jams.

Safety Precautions

- g. Hold the power tool only by the insulated handles.
- h. Always disconnect plug from power source before making any adjustment.
- i. The noise level while working can exceed 85 dB(A) wear ear protector.
- j. Wear protective gloves, safety glasses and close fitting clothe.

CORD LESS HAMMER DRILL



Rs. 14,595.00

Technical Specification

a. Rated Voltage:- : 18 Volt

b. No-load speed

1st Gear:- : 0-500 /min

2nd Gear:- : 0-2050 /min

c. Impact frequency at

No load:- : 31000 /min

d. Max. screw Dia:- : 12mm

e. Max. drill Dia.

Steel:- : 13 mm

wood:- : 45 mm

Brick work:- : 16 mm

f. Weight:- : 03 kg

Equipment Features

- a. This machine is intended for driving in and loosening screws.
- b. Can be used for drilling in wood, metal and concrete.
- c. Can be also use for impact drilling in brick, brickwork and stone.
- d. Easy to handle and carry due to light in weight.

Do's

- a. Avoid body contact with earthed .
- b. Ensure the switch is in off position before connecting to Power source.
- c. Remove any adjusting key before turning the power tool on.

Don't

- a. Don't expose power tool to rain or wet condition.
- b. Don't operate power tool in presence of Inflammable Liquids.
- c. Don't over reach Keep proper footing & balance at all time.

Safety Precautions

Work area safety:-

- a. Keep work area clean and well illuminated.
- b. Do not operate power tools in explosive atmosphere (i.e)flammable liquid, gas & dust.
- c. Keep children and bystander away from operational site.

Safety Precautions

Electrical Safety:-

- a. Power tool plug must match the outlet, never modify the Plug in any way
- b. Avoid body contact with earthed or grounded surface.
- c. Do not expose the power tools to rain or wet condition.
- d. Do not tamper the cord, never use the cord for carrying, pulling and unplugging the power source.
- e. If operation is required in damp place then use residual current device.

Safety Precautions

Personnel Safety:-

- a. Use proper personnel protective equipment.
- b. Ensure the switch is in off- position before connecting the power source/battery.
- c. Do not over reach. Keep proper footing and balance at all time for effective work.
- d. Dress properly do not wear loose clothing and jewelers.
- e. Keep your hair, clothing and gloves away from moving

HYDRAULIC RAM SET



Rs. 2,46.750.00

Technical Specification

Lukas Hydraulic Rescue Ram Set with LZR-12/500EN Lukas Hydraulic Foot Pump.

- a. Connecting Hose pair:- : 15mtr
- b. Model series:- : LH2
- c. Tank size:- : 1,8
- d. Max operating pressure:-:50MPa
(01 MPa = 10 bar)

Technical Specification

- a. Fuel Tank Capacity:- : 3.8 Liter
- b. Dimension:- : 660x200x160 mm
- c. Weight:- : 7 Kg
- d. Min required fill quantity:- : 2.38 Ltr.
- e. Hydraulic fluid:- : HM 10 DIN ISO 6743-4
- f. Hose line bending radius:- : 38 mm
- g. Storage temperature:- : 20C to +55C

Equipment Features

- a. Portable and easy to operate .
- b. Can operate at -30C to +60C temperature .
- c. Stabilizes load more effectively than hydraulic jack.
- d. Can be used to spread for extricating victims in road and rail accidents.

Do's

- a. Lever must be locked before transporting.
- b. Due to high mechanical pressure carry out visual inspection after each use.
- c. Clean equipment thoroughly before performing maintenance.
- d. Wear proper PPE.

Don't

- a. Do not transport pump without tightly screwing oil fill screw cap.
- b. Do not repair coupling they should be replaced to avoid accident.
- c. Do not change maximum operating pressure setting.
- d. Do not work under load raised by hydraulic device stabilize the load using proper cribs.

Safety Precautions

- a. Keep pump in vertical position while connecting lines.
- b. Always connect return line first at T port and then supply hose at P port.
- c. Install coupling only in depressurized condition.
- d. Keep body away from handle to avoid accident due to Kick Back.
- e. Add hydraulic fluid only if pump is disconnected from lines.
- f. Don't store in damp and dusty environment.

DISTRESS SIGNAL UNIT



Rs. 1,775.60

Technical Specification

- a. An electronic device having alarm system (2 to 4) signals/second at full noise level.
- b. Portable size and can be attached with waist belt with off/on switch.
- c. Audio Out-Put:- Not less than 3 meters.
- d. Led light show working mode all the time when unit is in operation.
- e. Compatible Battery with Life:- At least 500 hrs stand by and 10 hrs full Alarm.
- f. Low Battery warning:- Beep every 2 sec to give Warning for recharging.

Equipment Features

- a. The personal distress alarm device gives an automatic alarm when there is no movement of the user for more than 20 to 25 second.
- b. Use in rescue operations as a safety measure to inform about any trouble/danger.
- c. Light weight, small in size, can be attached easily at any place of body and very useful to know about the danger/risk during invisible rescue operation.

Do's

- a. Keep the equipment away from fire, water and hot surface.
- b. Check the equipment before use.
- c. In case of emergency/trouble, use the equipment in proper way.

Don't

- a. Do not operate the equipment without reasonable cause.
- b. Do not place it in contaminated area.

Safety Precautions

- a. Wear all PPE before performing any skills.
- b. Handle with care.
- c. Check the efficiency of the equipment before use.
- d. Keep the equipment in dry and clean condition.

HIGH PRESSURE PUMP



Rs. 2,25,000.00

Technical Specification

- a. Weight:- : Approx 250 Kg.
- b. Water Tank Capacity:- : Approx 100 Ltr.
- c. Delivery capacity:- : 23 ltr/Min
- d. Nozzle Pressure:- : 100 to 200 bar
- e. Range of solid stream water Mist:-
: 06 Meter to 10 Meter.
- f. RPM:- : 1000 to 1500
- g. Power of Engine:- : 9.5 KW Petrol Engine
- h. House length:- : 60 Mtrs.

Equipment Features

- a. Having wheel fitted, easy for transportation.
- b. Very effective for fire disaster.
- c. Easy to handle for fighting with fire up to the range of 30 feet distance.
- d. Enhance the fighting capacity of fire fighters.
- e. Also very useful for dust pollution control.

Safety Precautions

- a. Wear/use proper PPE before using equipment.
- b. Check fuel and all other requirements before operation.
- c. Keep the equipment out of reach of fire.
- d. Check the damage/leak in house and keep in proper way to save from damage.
- e. Re-fuel the equipment after switching off properly while in operation or otherwise.

MULTI CABLE WINCH



Rs. 2,29,500.00

Technical Specification

- a. Remote control battery operated cable winch with mounting kit.
- b. Motor:- : 5HP.
- c. Pulling capacity:- : Approx 05 Ton.
- d. Pulling/retrieval Speed:- : 06 Mtr/
Minuts
- e. Cable length:- : 50 Mtr.

Equipment Features

- a. Remote, battery operated, easy to operate/handle.
- b. Small in size, easy to carry.
- c. With mounting system can be mounted on vehicle.
- d. Very effective in vehicle accidents and extricating victims drowned in like well, pit and deep drainages.

Safety Precautions

- a. Use proper PPE before start of work.
- b. Ensure the functionality of battery, remote and cable with hook.
- c. Make balance base for fixing the winch properly or mount properly on the vehicle to avoid any kind of danger.
- d. Don't over roll the cable with out sequence.
- e. Keep the cable rust free and oiled always for its better performance of life.
- f. Ensure the proper care and maintenance.

HEAD LIGHT



Rs. 3281.62

Technical Specification

- a. Weight with batteries:- :12 oz (Max)
- b. Batteries:- : Small 02 Nos.
- c. Water resistant with straps for fitting in helmet.
- d. Beam of light focused with no dark patches.

Equipment Features

- a. Light weight, easy to carry and handle.
- b. Very effective for use during rescue operations, illumination for low light objects at rescue sites.
- c. Can be mounted on safety Helmet with mounting bracket/durable head bands.

Safety Precautions

- a. Check the durability of cell being used.
- b. Test the head light before proceeding for operation.
- c. Keep always in switch off position during off period.
- d. Don't over expand the straps and also check if lose to prevent the loss or damage while participating in rescue operation.
- e. Keep the battery always out during off period.
- f. Mind always your head to prevent the collision, which results in damage to head light.

PORTABLE SHELTER



(1), 10x23x7=Rs. 2,08,000.00

(2), 10x14x7= Rs. 1,44,112.00

Specification

- a. The size of shelter (10'x14'x7') & (10'x23'x7') have weight approx 45 and 65 kg.
- b. No framework and structure involved.
- c. Lightweight can be lift and carried by 2 people easily.
- d. Water resistant, improving hygiene.
- e. Shelter walls open up from inside for fast escape.

Features

- a. Totally weather resistant and keeps the occupants clean, dry and warm in high winds, cold temperatures, driving rain and heavy snow.
- b. Roof section allowed ample light transmission, giving the interior an airy and spacious atmosphere.
- c. When lit from the inside at night, the outer provides complete privacy while interior allows efficient use of the light source.
- d. Flat panel have a hole into it for exhaust ducting, water supply lines, drain pipes, extra ventilation etc.

CARE AND MAINTENANCE

1. Before operation.

2. During operation.

3. After operation

Before operation

- a. Select/chose the perfect and appropriate tool/equipment.
- b. Check/test the functionality of the equipment.
- c. Check power source/fuel etc.
- d. Prepare the equipment accordingly and yourself physically and mentally for operation.
- e. Give the report accordingly to the commander on asking from you.

During Operation

- a. Make the position as learned during training for operating the equipment comfortably without fatigue.
- b. Wait for the OK from your helper/ No.02 before starting the operation.
- c. Start operating the equipment with required, learned posture/activities during the training.

During Operation

- d. In case of any problem while operating the equipment. Don't move in other direction with running equipment.
- e. Firstly stop the equipment as taught by plugging off the switch or by cutting the power source.
- f. Don't stop the equipment in side. Remove the equipment out first than switched it off.

After Operation

- a. Inspect the equipment thoroughly, check the damage or loss and bring in to the notice of available senior commander.
- b. Clean the equipment properly and do the oiling, greasing as per requirement.
- c. Keep the fuel tank empty as directed according the user guide manual.
- d. Pack the equipment in available packing box in proper way to ensure the safety.

After Operation

- e. Intimate to BN HQr through message, strip or special strip about the loss and damage.
- f. Forward the detail report about the loss and damage to BN HQr for further necessary action.
- g. Deposit the damaged equipment to unit JE work shop on proper work order along with log book/history sheet under intimation to Unit Provisioning branch.

After Operation

- h. Get the equipment repaired at the earliest from unit JE work shop to keep ready for further rescue operation.

- l. If unable to be repaired at unit JE work shop. Get the equipment back after endorsing the remarks on work order and deposit the same to Unit Provisioning branch for further repair from the concerned firm.

FOR EVERY ONE

Proper use, care and maintenance of the equipment will lead you to feel and enjoy the pleasure of sure success in future.

And will also lead you to live the life of actual

HERO

THANK YOU