

ज्ञापांक.....6172 / आपूर्ति

92-146-2016

पुलिस महानिदेशक का कार्यालय, बिहार, पटना।

पटना, दिनांक- 24-11-16

सेवा में,

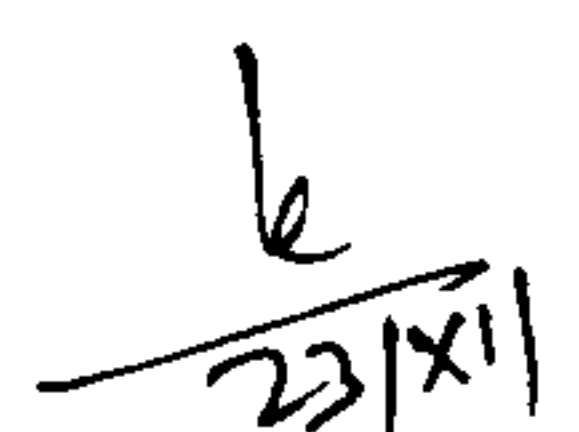
निदेशक,
सूचना एवं जनसम्पर्क विभाग,
बिहार, पटना।

विषय- पुनर्निविदा आमंत्रण सूचना सं०-55/2016-17 के प्रकाशन के संबंध में।

निदेशानुसार उपर्युक्त विषय के संबंध में पुनर्निविदा आमंत्रण सूचना सं०-55/2016-17 की पाँच प्रतियाँ (सी०डी० सहित) संलग्न करते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय। साथ-ही पी०आर०डी० वेबसाइट पर भी प्रसारित करने की कृपा की जाय।

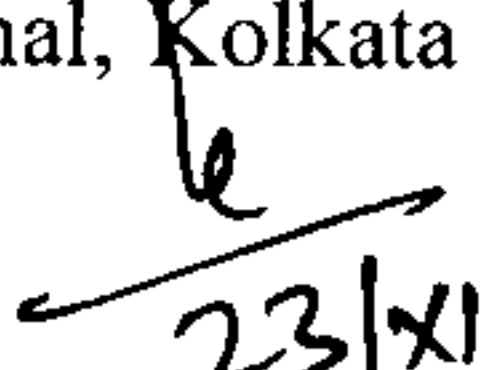
इस निविदा आमंत्रण सूचना का प्रकाशन किन्-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

अनु०-यथोपरि।


पुलिस महानिरीक्षक के सहायक (क्यू०),
बिहार, पटना।

प्रतिलिपि:-

1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय। साथ-ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेतु Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis@nic.in के पतेपर भी अनिवार्य रूप से भेजा जाय।
2. Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis@nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।



पुलिस महानिरीक्षक के सहायक (क्यू०),
बिहार, पटना।

Police Headquarters, Bihar, Patna
Notice Inviting Re-Tender No.55/2016-17

1. Name of the Department : Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the re-tender : 7 /12/2016, Till 11:00 AM
3. Date & time fixed for the opening of the re-tender : 7 /12 /2016 At 11:00 AM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job :

S.N.	Item name	Quantity
1	Earthquake Rescue Instruments (Full Set) for Special Battalion for Disaster Risk Management Work	01

Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website www.prdbihar.gov.in or www.biharpolice.bih.nic.in.


23/12/16
AIG (Q)
Bihar, Patna.

Terms & Conditions Of Re-Tender No.-55/2016-17

1. Tender of the firm will be accepted only on the condition that if their tenders are approved, the firm shall get registered with the Commercial Tax Department, Bihar, before the purchase order is issued.
2. The tender should be submitted in two parts : (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
3. All relevant papers/ E.M.D./certificates/specifications etc. of items should be enclosed in the Technical Bid.
4. The rates of the items shall be quoted in the Financial Bid only.
5. All charges like BST/CST/Service Tax /VAT etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
6. The rates of the items shall be quoted in the Financial Bid in two parts :
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
7. There should be no cutting, over writing or correction on the rates.
8. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
9. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
10. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Re-Tender No-55/2016-17 (Technical Bid) and Re-Tender No-55/2016-17 (Financial Bid) along with the name and address of the firm. The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Re-Tender No-55/2016-17. This envelope should not bear the name and address of the firm.
11. Income Tax Returns of last three years, a photocopy of PAN of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
12. The turn over of the firm for the last reported financial year should be at least double the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
13. If there is some discount in the price of any item, it should be deducted from price itself and such discounts should not be quoted separately.
14. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
15. A copy of the test report for the product issued by any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.

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16. In case of Bullet Proof/Bullet Resistant items, test report of TBRL is compulsory.
 17. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
 18. Firms participating in this tender shall also submit the self attested list of users of its equipments.
 19. All items shall be received at Central Clothing Store, Patna, therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
 20. Firms will have to deposit a sum of Rs.50,000/- (Fifty Thousand) only as an earnest money deposit in the form of Bank Draft duly pledged in favour of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organisation/State Purchase Organisation and National Small Industries Corporation (NSIC).
 21. Technical Bids will be opened on scheduled date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
 22. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
 23. Any paper/document will not be accepted after opening the tender.
 24. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
 25. The firm will be required to provide satisfactory after-sales service after the delivery of the product.
 26. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
 27. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
 28. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
 29. It is expected to submit the duly filled chart attached herewith, along with the technical bid.
 30. Indexing of the requisite documents must be done and submitted along with the technical bid.
 31. Hands on training of the equipment must be imparted to the user group by the firm.
 32. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully, without assigning any reason thereof.
 33. The Quantity indicated may increase or decrease at the time of issuing purchase order.

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Bihar, Police.

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Sl. No.	Name of Item	Item Quantity
EXTRICATION & ACCESS EQUIPMENT		
01.	Angle Cutter (Electric) 14" Dia	02
02.	Replacement Diamond Tipped Blades For Angle Cutter	02
03.	Replacement Composite Blades For Angle Cutter	02
04.	Bullet Chain Saw 16"	02
POWER TOOLS		
01.	Electric Drill	02
02.	Electric Drill Bit Set	02
03.	Rotary Hammer Drill	02
04.	Rotary Hammer Drill Bit	02
05.	Reciprocating Saw	02
06.	Reciprocating Saw Blade Wood	02
07.	Reciprocating Saw Blade Metal	02
LIGHTING & POWER EQUIPMENT		
01.	Portable Generator 2.5 KVA	02
HAND TOOLS		
01.	Bolt Cutter 30 inches	02
02.	Screw Driver Set	02
03.	Claw Hammer	02
04.	Round Shovel 8 inches	02
05.	Spades	02
INDIVIDUAL KIT		
01.	Reflective Jackets Water Proof	40 सेट
02.	Safety Helmets	40 सेट
03.	Boots Hard Toe Steel Shank	40 सेट
04.	Safety Torches	40 सेट
MISCELLANEOUS UTILITY EQUIPMENTS		
01.	Tarpaulin 6m x 6m	02
02.	Scene Tape 100m Rolls	02
03.	Rope Nylon 100 m Rolls	02
04.	Traffic cones	02
05.	Full Body Harness	02
PERSONNEL PROTECTIVE GEAR		
01.	Heavy Duty Work Gloves	02
02.	Safety goggles	02
03.	Nose Mask	02
04.	Dust Mask	02
05.	Earplug (Corded)	02
06.	Knee Pad cushion 1 inch	02
EQUIPMENT FOR AMBULANCE		
01.	Stretcher/ Spin Board with Accessories	- 2

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37. SPECIFICATION OF BAG VALVE MASK INFANT (SILICON)

- Material texturized silicon, and autoclavable
- Size INFANT, compressible, reusable silicon bag of 1600 ml capacity.
- Component- Self-inflating silicon bag. One way inflating valve, facemask, Oxygen reservoir, Oxygen port connecting tube. Transparent soft pre inflated plastic facemask.
- Good quality connecting tube of 3 m lengths.
- Standardized 15/22 mm fitting. Adjustable book and loop handle. Collapsible body and reservoir.
- PEEP Valve/elbows included non-jam valve with max Oxygen flow of 8 L /min. Carry case to be provided.

38. SPECIFICATION OF TORCH

- Stainless steel body.
- Snap; lock for hooking to belt of the user

3 large cell capacity, Durable, waterproof and durable On/Off switch.

39. SPECIFICATION OF STRETCHER / SPINE BOARD WITH ACCESSORIES

- Dimension : 1830 mm (L) , 420 mm (W)
- Weight : 5 Kg
- Capacity : 200 kg
- CT/MRI Compatible and radio lucent
- Material : Carbon fiber or fiber glass material

Separate hand holds and restraint holds with smooth edges for easy and comfortable lifting with Velcro straps.

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50. Specification of Ventilator and air tube with motor

Motor Having At least 0.5 hp motor.

Exhaust pipe – 300 mm dia. , flexible corrugated Pipe with push back folding arrangement 20-22 meter long , Used to Provide ventilation / Exhaust of air from Confined spaces or outside environment and Vice-versa.

51. SPECIFICATION ROTARY RESCUE SAW FOR DIAMOND TIP 12" REPLACEMENT BLADE

Voltage - 220-250 V
Wattage- 2000-2300 W
RPM -6300-6500
Disc Diameter max ...300 mm(12")
Arbor size 22- 22.5 mm With required accessories and electrical cord of about 5 mtr. in length with 5 amp three/two pin plug.
Noise level : <100db
With suitable Protective carry case.

52. Chipping Hammer Bit- Flat

SPECIFICATION
a) Bit length: 11" & 16"
b) Bit diameter: 19 mm
c) Material : High tensile steel with minimum 55% carbon, SDS Type

53. Chipping Hammer Bit- Pointed

SPECIFICATION
a) Bit length : 11 & 16 "
b) Bit diameter : 19 mm

54. SPECIFICATION FOR SELF CONTAINED COMPRESSED AIR OPEN CIRCUIT BREATHING APPARATUS

1. SCOPE

This specification prescribes requirements of design, performance and practical test for open circuit type breathing apparatus.

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48 .SPECIFICATION OF Electric drill with protective carrier

Name of Equipment/item

Input power: 450 W

No load speed: 3000 RPM

Light weight

Shock proof body with different sizes of bits for both metal & wood.

49 .SPECIFICATION OF Electric drill bit set (complete set of 19 bits)

Name of Equipment/item

a) Bit type: Material bits used for wood & metal cutting

b) Bit diameter: Complete set of 19 bits from 1 mm to 10 mm

c) Compatibility: Compatible with Electric drill equipment

d) Material- High speed steel

e) Hardness –760 HV Min, 900 HV MAX

f) Hand of cutting unless otherwise specified Right.

g) The drills shall be manufactured in one piece and shall be free from cracks and burrs.

h) The two cutting edges of the center drill shall be diametrically opposite.

i) The drill shall be properly sharpened and ready for use.

j) Each center drill shall be covered with a suitable rust proofing material .

NOTE OF TENDER

1. The tenderer shall indicate the make/model in their offer.

2. The tenderer shall furnish the clause by clause compliance statement. In case there is any deviation the same should be clearly brought out in the offer.

3. They shall mention the relevant BIS/EN/DIN/UL certification of the product offered.

Technical manual comprising of servicing details shall be supplied with system.

4. If above equipments/machine requires specific training for operating them, the tenderers should ensure that proper training on operations and its maintenance is provided to each consignees.

5. The confirmation that the stores are meeting the specification should be supported by documents/ literature etc.

6. These documents of all stores offered be numbered and attached after all appendices and the numbering may be in continuation.

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			<p>Noise level : <100db</p> <p>Arbor size 22- 22.5 mm With required accessories and electrical cord of about 5 mtr. in length with 5 amp three/two pin plug.</p> <p>With suitable Protective carry case.</p>
41	Diamond blade(14" angle cutter	tip)for	<p>RPM at least 6300</p> <p>Arbor size- 22.mm to 22.5 mm</p> <p>Dia 355mm or 14"</p> <p>Thickness-3.5mm</p> <p>Compatible with Rotary Rescue Saw</p>
42	Composite metal for cutter	blade for angle	<p>RPM 6300 or more</p> <p>Arbor size- 22 mm to 22.5 mm</p> <p>Dia 300mm or 355 mm</p> <p>Thickness-3 to 3.5mm</p> <p>Compatible with Rotary Rescue Saw</p>
43	Reciprocating Saw		<ol style="list-style-type: none"> 1. Rated power- 600 W to 700 W at 220-240 Volts. 2. Output power- Not Less Than 350 W 3. Stroke rate (at no load) - 2600/Min 4 stroke length - 28 mm 5. Cutting depth,(wood) - 165 mm 6. Cutting depth, (steel sheet)- 20 mm 7. With required accessories and electrical cord of about 5 mtr. in length with 4 to 5 amp three/two pin plug. 8. Rate Current : 2.7 Amp 9. Noise level: <100 db 10.Spare blades for metal &wood cutting 10 Nos <p>With suitable Protective carry case.</p>

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44. Blade for Reciprocating saw (For metal cutting)

SPECIFICATION

- a) Blade type:- Metal blade of High speed steel used for metal cutting
- b) Blade length :- 150 mm
- c) Compatibility :- Compatible with Reciprocating saw equipment
- d) TPI:- 24 Tooth per inches
- e) Blade width :- 16 mm
- f) Thickness:- 0.90 mm

BIS Specification

- g) Material- The low alloy cold rolled steel strips in hardened, tempered and polished condition having carbon silicon manganese chromium Nickel Sulphur and Phosphorus
- h) Hardness -410 HV min 450 HV max
- i) Tooth shape- The tooth shape shall be with 56 gullet angle and 10 rake angle.
- j) Tooth setting- the provision of the rake setting of the tooth shall be at the discretion of the manufacturer.
- k) Marking- marking- The band saw blades shall be marked with the size and manufacturer's name and trade mark at equal spaced intervals over the bands.

45. Blade for Reciprocating saw(For wooden cutting)

SPECIFICATION

- a) Blade type:- Metal (high carbon steel) blade used for wood cutting
- b) Blade length :- 240 mm
- c) Compatibility:- Compatible with Reciprocating saw equipment
- d) TPI:- 05 Tooth per inches
- e) Blade with:- 19 mm
- f) Thickness:- 1.50 mm

BIS Specification

- a) Material- The low alloy cold rolled steel strips in hardened, tempered and polished condition having carbon silicon manganese chromium Nickel Sulphur and Phosphorous

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37. SPECIFICATION OF GENERATOR PORTABLE 2500 W
KEROSENE FUEL

Rated output - 2100-2300 watt

Maximum Output 2400-2600 watt

Fuel : kerosene/Petrol Rated current : 10.5 amp Over load
protector : for AC & DC Earthling

Other provision : Provision for battery charging,
pull cord manual start facility Rated voltage : 220 Volts

Rated frequency :- 50 Hertz DC Output : Only for charging 12
volts

automotive batteries, Maximum charging out 8.3 amp

Dimension :- (LXWXH) 605 mm x 425mm x 550mm (+20%
margins)

Dry Weight : 60 to 65 kgs Engine type : 4 stroke, 1 cylinder

Cooling system : Forced air cooling Ignition

system : transistorized coil ignition Oil capacity : 1 to 1.5 liters

Fuel tank capacity : 12 to 15 liter

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12

2. COLLAPSED STRUCTURE SEARCH AND RESCUE CSSR (72 ITEMS)

1. SPECIFICATION OF PLIER 8 INCH

- a) Size : Length 8"
- b) Material: made of forged steel with insulated handle
- c) Teeth/cutting edge: One jaw having cutting edge & other have teeth BIS Specifications
- d) The pliers should have insulated handle. The insulating material shall be PVC or any other suitable material.
- e) The insulation shall cover the whole of the handle and insulating material shall adhere firmly to the handle
- f) The pliers shall pass various tests described in IS 2615

2. SPECIFICATION OF VISE GRIP 10 INCH

- a) size : Length 10"
- b) Material: made of forged steel
- c) Teeth : On both jaws

3. SPECIFICATION OF BOLT CUTTER 14 INCH

- a) Size : Length 14"
- b) Cutting jaws: made of high tensile solid alloy steel, specially heat treated with center cut heads.
- c) Handle: With sufficient grip of rubber fro a length of 6 to 8 inches
- d) Application: Suitable for cutting hard material viz bolt, iron rod of 8 to 10 mm diameter

4. SPECIFICATION OF BOLT CUTTER 30 INCHS

- a) Size: Length 30"
- b) cutting jaws: made of high tensile solid alloy steel, specially heat treated with center cut head
- c) Handle: With sufficient grip of rubber fro a length of 6 to 8 inches
- d) Application: Suitable for cutting hard material viz. bolt, iron rod of 10 to 14 mm diameter

112/90

12. SPECIFICATIN CROW BAR 3 FEET

- a) Size : Length 36 "
- b) Diameter of rod: 1"
- c) Material: made of tempered steel
- d) Attachment: Claw attachment for removing nails

BIS Specifications

- e) The bars shall be heat treated to obtain a minimum hardness value of 320 HV.
- f) The material shall be suitable quality steel such as wrought steel
- g) The bars shall be forged clean & in one piece.
- h) Cutting ends of the bars may be rounded off & finished ground.

13. SPECIFICATION OF PICK MATTOCK

- a) Size : 2" wide, 9" long
- b) Weight: 3 Kg

Ends : One prong end blunt point headed 9" long & other prong flat headed

14. SPECIFICATION OF WORKING LAMP WITH 50 M LEAD

- a) Type : With bulb holder, wire mesh protection for bulb
- b) Handle : Fully Insulated handle to provide manual grip

Cord: PVC wire of 6 mm, 50 meter length with 2/3 pin plug

15. SPECIFICATION OF CLAW HAMMER

- a) Weight : 1 lbs
- b) Type: Nagore type
- c) Size : Width 4"
- d) Provision: $\frac{3}{4}$ " head dia at one side of hammer & claw on the other side to remove nail
- e) Handle : Wooden handle

BIS Specifications

- f) Striking face hardness : 46 to 58 HRC
- g) Hammer shall be cleanly forged & free from flaws, seams, & other forging defects.

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10. Screw Driver set

- a) Size: One complete set of eight sizes of bits
- b) Type: Flat tip/square tip including star shaped screw driver
- c) Handle: Insulated handle tested at 3000 volts

BIS Specifications

- d) The blades shall be made from suitable steel which is heat treated
- e) Plastic handle shall be solid and made of cellulose acetate.
- f) The ferrules shall be made of steel conforming to IS 513IS-844

11. SPECIFICATION OF CROW BAR 2 FEET

- a) Size : Length 24"
- b) Diameter of rod: 1"
- c) Material : made of tempered steel
- d) Attachment: Claw attachment for removing nails

BIS Specification

- e) The bars shall be heat treated to obtain a minimum hardness value of 320 HV.
- f) The material shall be suitable quality steel such as wrought steel
- g) The bars shall be forged clean & in one piece.
- h) Cutting ends of the bars may be rounded off & finished ground.

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8. SPECIFICATION OF SHOVELS ROUND 8 INCH

- a) Size: length 8", width 8", of almost round shape
- b) Material: made of wrought iron
- c) Handle: Provision of wooden handle to be incorporated
- d) Application: Suitable for various types of earth work

Specification

- e) The shovel blade shall be made of suitable quality sheet steel as such T-50, T-55.
- f) Each blade shall be made in one piece without any welded or riveted joint.
- g) Shovels to be supplied with handles complete.
- h) The blades shall be well formed & cleanly made.
- i) The blades shall be free from seams, splits, cracks.

9. Spade shovel

- a) Size : Length 12", width 10", of rectangular shape
- b) Material: made of wrought iron
- c) Handle: Provision of wooden handle to be incorporated
- d) Application: Suitable for various types of earth work
- e) BIS Specifications
- f) The shovel blade shall be made of suitable quality sheet steel as such T-50, T-55.
- g) Each blade shall be made in one piece without any welded or riveted joint.
- h) Shovels to be supplied with handles complete.
- i) The blades shall be well formed & cleanly made.
The blades shall be free from seams, splits, cracks

29. Tarpaulin 6 x 6

- a) Size :- 6 meter x 6 meter
b) Material:- made of water proof canvas cloth, its edges should be secured by stitching a strip of similar cloth or otherwise of 1" width along the periphery of Tarpaulin.
c) Color :- Green/Navy blue

BIS Specification

1. Basic fabric : shall be made from cotton duck or cotton canvas.
 2. Common proofing shall be prepared with the ingredients consisting essentially of paraffin wax, a suitable pigment and aluminum stearate.
 3. Resistance to microbial attack- The Material shall be rendered resistant to microbial attack treating with suitable rot-proofing agent.
 4. Sweating test- The common proofed canvas/duck shall not stain the blotting paper when tested as prescribed.
- Breaking strength not less than 90 % of specified value prescribed for the basic fabric.

30. SPECIFICATION OF NOSE MASK

GENERAL

Nose mask shall be provided with oxygen supplied tubing fabricated from latex free material with suitable female end connection. This should have elastic strip to fix over nose. The nose mask should also be provided with exhale port on either side.

31. SPECIFICATION FOR FULL BODY HARNESS

GENERAL SPECIFICATION:

It should be useful for safe working on Heights & protection against fall. The shoulder and thigh straps should be easily identified by two different colours. It should be Fabricated for high shock absorbing and impact dispersing capacity while working-before, during and after a fall. It should have a specially designed seat strap for optimum comfort. It should have Energy Absorbing Dorsal ID.

SPECIFICATION

Its Anchor point should be by means of 2 chest attachment triangular-ring and a Dorsa attachment triangular -ring . It should have adjustable shoulder and thigh straps.

ACCESSORIES

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23. SPECIFICATION OF EAR PLUG CORDED

- a) Material :- Made of soft eco friendly fiber material, corded
- b) Provision:- With a lace or same type of other arrangement to keep units of both the ear together
- c) Application :- To prevent entry of dust & loud sound in the ear
- d) BIS Specification
- e) Material coming into contact with the body shall not cause irritation
- f) It shall be resistant to skin oil, hair oil and ear wax.
- g) Ear protector shall be made of material which is capable of being cleaned and sterilized.
- h) Ear Plug should be elastic to the ear canal

Ear plug should be made so that no deleterious changes occur between -25 and $+55$ degree centigrade.

24. SPECIFICATION KNEE PAD CUSHION

- a) MATERIAL:- made of hard plastic with 1" sponge cushion inside with pair of straps for securing knee pads

Application :- To fasten on the knees to protect from injury

25. SPECIFICATION OF SAFETY GOGGLE

- a) Color :- Grey/blue
- b) Material:- Light weight & safe to wear with impact resistant plastic

Provision:- Adjustable according to the size of the head, loose enough to pass the sweat.

26. SPECIFICATION OF HEAVY DUTY WORK GLOVES

- a) Material:- Made of fine leather, flexible
- b) Application :- Capable to work with hand held machine
- c) machine

Size :- Medium, Large and Extra Large

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19. SPECIFICATION OF EXTENSION CORD 8 MM DIA 100 MTR LONG

- a) Type: With one 15 amp & two 5 amp switch socket fixed on wheel of diameter 1 feet with handle
- b) Handle: Insulated handle of 6" to provide manual grip

Cord : PVC wire 8 mm, 25 meter length with 2//3 pin plug, with wrapping arrangement on wheel

20. SPECIFICATION OF DUST MASK

- a) Size : 4"
- b) Provision: Having two elastic straps to fasten above & below the ear to prevent the dust

Material: The cloth used for fabricating dust mask should be able to prevent entry of dust

21. SPECIFICATION OF SCENE TAPE 100 MTR

- a) Size : Length 100 meter, width 3"

Material : PVC tape roll with red & white strips (Red color preferably in fluorescent color) with DANGER written in bold letters

22. SPECIFICATION OF SPRAY PAINT ORANGE

- a) Weight/Volume:- 300 gm/400 cc
- b) Color:- Color must be of high contrast, durable & fluorescent

Knob arrangement:- Press knob for release of paint, the release of paint should be in the form of spray jet

	agent. One kg of binding agent will easily bind 3.5 kg of low viscosity oil or up to 10 kg of high viscosity chemical compounds.
85	01 HAZARDOUS LIQUID & SOLID DETECTING KIT
86	5 ACID ALKALI TEST PAPER
87	150 CHEMICAL TEST PAPER
88	2 MULTI PURPOSE BRANCH PIPE
89	10 FIRE HOSE SYNTHETIC SPECIAL, 20M
90	10 HIGH PRESSURE HOSE 38MM
91	2 DIVIDING BREACHING
92	2 COUPLING SPANNER

INDIVIDUAL KIT ITEMS (05 ITEMS)

S.No..	Name of Equipment/item
1.	Reflective jackets-waterproof
2.	Safety Helmets
3.	Hard toe, steel shank boots
4.	Water bottle (lightweight with protective carrier element)
5.	Safety Torches

1. SPECIFICATION OF REFLECTIVE JACKET :

SPECIFICATION :-

- i) Description:-
Fluorescent colour jacket with 50mm glass bead type reflective tape in 2 vertical and 1 horizontal band in front and back same. Front opening and v neck design.
 - ii) Background Fabric:-
100% polyester, 125 gsm made from bright glossy yarn, adhering to EN 471 standard. it shall have excellent colour fastness and should be uv treated.
 - iii) Colours:- Fluorescent reddish orange / fluorescent lime - yellow.
 - iv) Reflective Tapes:-
Glass bead type reflective tape, EN 471 class 2 approved, 50 mm wide, colour of the reflective tape will be silver grey.
- Accessories :
- i) Binding:-

Binding will be black in colour. 100% polyester fabric will be used in binding with excellent colour fastening. binding is 100% leak proof.

ii) Velcro:-

Velcro shall be 25 mm wide and 50 mm in length positioned vertically for perfect fastening. the colour of the velcro will be black.
size : length : 27 inches and width 23 inches.

2. SPECIFICATION OF SAFETY HELMENT

SPECIFICATION

- i) ISI MARKED : IS : 2925 OF 1984
- ii) SHELL MATERIAL : HIGH DENSITY POLYETHYLENE (HDPE)
- iii) ADJUSTABLE AND DETACHBLE HEAD BAND WITH NAPE STRAP MATERIAL : LOW DENSITY POLYETHYLENE (LDPE)
- iv) ADJUSTABLE CHIN STRAP : NYLON CHINSTRAP AND RACHET TYPE HEAD BAND
- v) SLOT FIX DESIGN : PROVISION FOR EASY CLIP ON ACCESSORIES LIKE FACE SHIELDS AND EAR MUFFS.
- vi) COLOUR : YELLOW

3. SPECIFICATION OF STEEL TOE SHANK BOOTS

It should give comfort, safety and performance, steel toes Shoe. Oil resistant, layered sole which should provides extreme traction, Superior cushioning. it may have Nylon lining ,Cushioned insole &Deep bar-tread outsole .

It should have Full Grain Leather uppers , Steel Shank. It should have Electrical hazard protection. Hooks & eyelets set on steel washers. Leather upper. Oil & slip resistant polyurethane outsole which should provides lasting performance while minimizing fatigue. It should be durable.

It should be built from Lightweight materials which make them easy to wear. Removable Comfort Core air flow orthotic insert. Soft leather padded collar for added comfort. Steel toe Class may be I75/C75 or better.

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4. SPECIFICATION OF WATER CANTEEN OR WATER BOTTLE.

- Designed to carry on the back
- It should have illuminated panels for improved visibility and safety
- It should have a fuel window for bladder level
- It shall have extra wide bladder port and quick connect access.
- It must have insulated bladder compartment for keeping water cool.
- Ergonomic back panel w/ perforated foam for improved ventilation.
- Contoured shoulder straps for comfort and breath ability
- Adjustable sternum strap
- Light clip strap
- Large cargo compartment with organizer
- Magnetic clip for valve attachment
- Bungee straps for extra storage
- Adjustable to fit medium-large body types
- All the materials used in the construction of outdoor back
- Carry water bottle should be durable
- These bottles should be lightweight and made from the highest quality materials.
- It should with stand disinfections of the bottle using bleach
- The weight of the bottle should not be more than .4 lbs
- It should be provided with a pipe which can drawn water
- While the bottle or canteen is on the back.

5. SPECIFICATION OF SAFETY TORCHES :

SPECIFICATION

THREE CELL WATER PROOF TORCH

POWER SOURCE - CARBON ZINC ONLY : 3XD CELL

BULB/LAMP : PR-3

BULB/LAMP LIFE - 15 HOURS

LIGHT OUT PUT - 15,000 BEAM CANDLEPOWER

WEIGHT (WITHOUT BATTERIES) - 6 OZ (.17 Kg)

WATER PROOF

SUITABLE FOR USE IN HAZARDOUS ATMOSPHERE

SPARE BULB COMPARTMENT RING HANGER

THREE WAY SWITCH : ON - OFF - FLASH

ANTI - ROLL TUBE OVERSIZED FACETED REFLECTOR FOR MORE LIGHT
UL APPROVED

103 18

The trademark of manufacturers identification shall be marked on the facemask, demand valve, pressure reducer and back plate. The serial number of the set and the date of manufacturing shall also be marked on the back plate.

NOTE TO TENDERER :

1. The tenderer shall indicate the make/model in their offer.
2. The tenderer shall furnish the clause-by-clause compliance statement. In case there is any deviation the same should be clearly brought out in the offer.
3. They shall mention the relevant BIS/EN/DIN/UL certificate of the product offered.
4. Technical manual comprising of servicing details shall be supplied with system.
5. Relevant Test certificates shall be provided from a Govt. approved laboratory or from the manufacturer, along with their offer.

55. SPECIFICATION OF BULLET CHAIN SAWS

GENERAL

The Bullet Chain saw is designed for deep cutting up to a depth of app.8 to 10" or more in different building material like bricks, wood, wood with nail, PVC doors, Metal Sheet up to 18 Gauge thickness from one side. It should be handy and can be carried easily.

TECHNICAL DATA

1.	Engine	Air cooled 2 stroke engine self powered petrol driven .
2.	Power	At least 5 H.P.
3.	Ignition	Electric ignition system
4.	Weight	(Without bar and chain) not more than 10 Kg
5.	Chain Type	Carbide tipped with locking key.
6.	Safety	Provision of locking the Chain to prevent accidental running of chain.

ACCESSORIES

1. A spare carbide tipped bullet chain

TECHNICAL EVALUATION/INSPECTION

The technical parameters specified above shall be checked at the time of inspection. The supplier at his own cost shall provide all tools/equipments/materials and facilities required for testing inspection