

**OFFICE OF THE DIRECTOR,  
FIRE & EMERGENCY SERVICES, ASSAM, GUWAHATI.**

***NOTICE INVITING TENDER***

Sealed Tender affixing Court fee stamp of Rs. 8.25 (Rupees eight and paise twenty five) only are hereby invited from reputed firms for supply of the following **Extraction & Accessories Equipments** as per specification laid down in the NIT and will be received by the undersigned **up to 1500 hours on 14.07.2015**. The Tenders will be opened on the next day at **1100 hours**. If the Tenders are not opened on the next day due to unavoidable circumstances, the same will be opened on the next working day. The Tenderers may also download N.I.T. from the website of Fire & Emergency Services, Assam i.e. [www.asfso.org](http://www.asfso.org)

**TERMS & CONDITIONS:**

1. The Tender shall be submitted in 2 (two) Bid system. (Technical Bid and price Bid).
2. Tender/ Tenders without court fee stamp will be rejected.
3. The Technical Bid should be in a sealed envelope affixing court fee stamp of Rs. 8.25 (Rupees eight and paise twenty five) only. Bidder shall also enclose the following with technical Bid :-
4. The price Bid shall be in the second sealed envelope.  
The price Bid of the eligible bidders will be opened who qualify in the Technical Bid.
5. Both the Technical Bid (in one sealed envelope) and Price Bid (in second sealed envelope) shall be placed in another outer envelope duly sealed and to be dropped in the Tender Box.
6. The envelope containing tenders must have the following particulars to be super scribed :-
  - i) Reference of N.I.T., its number and date.
  - ii) Name and full address of the Tenderer/ Bidders.
  - iii) Date of opening of the Tender.
7. i) Tender/ Tenders received after due date and time fixed above will not be accepted.  
ii) Up to date valid Sales Tax/ VAT clearance Certificate/ Permanent Account Number/ VAT Registration certificate/ Audited Balance Sheet and Income Tax Return for last two years must be submitted duly attested.
8. Tender once submitted shall be final. No alternation/ modification in the rates and terms and condition in the tender shall be entertained after opening of the Tender.
9. Submission of Bid by the Tenderer should cover and specify all the items of equipment mentioned in the NIT, both in Technical and Price Bid at the time of submitting the Tender. Failing which tender will not be taken into consideration. No item should be left out at the time of submitting the tender.
10. Price of all the items mentioned in the NIT is to be submitted as per format enclosed at **Annexure-I**.
11. Conditional and incomplete tender shall not be entertained.
- 12. The Tenderers can also quote their DGS & D rates of item if available with them.**
- 13.** The Tenderer shall have to deposit an amount of Rs. 3,50,000/- (Rupees three lakh fifty thousand only) as Earnest Money in the Technical Bid in the shape of NSC/ KVP/ FDR/ Demand Draft to be pledged in the name of **Director of Fire & Emergency Services, Assam, Guwahati – 1**. No cash & cheque etc. will be accepted as Earnest Money. Those firms registered with Central Purchase Organization/ NSIC are exempted from depositing the EMD. Copy of which to be submitted with bid document.
14. The EMD of the unsuccessful Tenderers will be released as soon as acceptance and finalization of the Tender and the EMD of the successful tenderers will be released after execution of the work order.
15. Tender should be legibly typed or written and the rates should be written neatly both in figure and words. There should not be any over writing, erasure mark in the rates. In case of over writing or erasure or any such alteration, the tender shall be rejected outright.
16. Failure to fulfill the terms and conditions of the NIT will lead to rejection of the bid without any reference to the tenderer and no correspondence will be entertained in this regard.
17. Rates quoted should be valid for 1(one) year with a provision for further extension if required.
18. Once the rates offered in the quotation are accepted, no enhancement will be entertained under any circumstances and tenderers will be liable to supply the items at the rate accepted by the Director, Fire & Emergency Services, Assam. Failure to supply the items at the

- accepted rates will entail the order being cancelled forfeiting Security Deposit and suitable panel action may be taken by blacklisting/ debarring from competing any tender with Govt./ Semi Govt./ Public undertaking.
19. An Affidavit stating that neither the Tenderer, principal supplier of equipment or any associated / affiliated company is blacklisted by any Public Sector Undertaking/ Agency of Govt. of India or State Govt.
  20. All pages of the tender document together with terms and conditions and the documents enclosed with the tender shall be signed by the authorized signatory.
  21. The **Extraction & Accessories Equipments** shall have to be delivered within 60 (sixty) days on receipt of the work order by the supplier.
  22. The successful Tenderers shall have to deposit 5% security money of the total value of the work order in the form of Demand Draft/ Bank Guarantee/ NSC/ KVP/ FDR pledged in the name of the Director of Fire & Emergency Services, Assam, Guwahati – 1 before placement of formal work order.
  23. The equipment should carry a guarantee of 1(one) year with effect from the date of receipt by this department. Any defects if found during this period should be replaced free of cost.
  24. Price bid is to be quoted in price bid format, e.g. Description, excise duty if any CST/ LST/ VAT and delivery charges F.O.R. destination and total.
  25. Any optional/ alternative rates for any item will not be entertained.
  26. A Committee of Technical Officers' to be nominated by the undersigned shall examine/ testing the **Extraction & Accessories Equipments** as regards their satisfactory, effective functionality. Suppliers bill shall be paid only after the Committee's satisfactory report on the workmanship/ functioning the **Extraction & Accessories Equipments**. Any defect noticed/ pointed out by the above Committee shall be rejected/ replacement by the supplier before final receipt of the same.
  27. **In case of any legal complicacy arising out of this N.I.T., the jurisdiction will lie at Gauhati High Court only.**
  28. The tenderers must submit the sample of each item and its descriptive literature along with the tender failing which tender will not be entertained.
  29. Notwithstanding anything mentioned herein above, the undersigned shall not remain obliged to accept the lowest tender and shall reserve the right to reject any or all the tenders without assigning any reasons thereof.

Sd/-  
Director,  
Fire & Emergency Services, Assam,  
Panbazar, Guwahati.

TENDER NO:

Date:

**PRICE BID FORMAT****Supply of Extraction & Accessories Equipments.**

Sl. No.	Name of Item with Make/ Model	Quantity	Unit Price	Excise Duty if any	Tax (VAT/ CST)	Entry Tax/ Octroi Duty	Total amount (in Rs.)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
Grand Total =							
<b>Total (Rupees ..... ) only</b>							

(Signature of the Tenderer)

Name: \_\_\_\_\_

Date:

Designation: \_\_\_\_\_

Place:

Seal:

**SPECIFICATION OF EXTRACTION & ACCESSORIES EQUIPMENTS:-**

**(1) Replacement 14" dia diamond tipped blades – 28(twenty eight) Nos.**

Diamond blade. Blade RPM – above 4000-5500

Diameter 16" Minimum cutting depth of 100 mm

Type of blade – Multipurpose (for cutting concrete, metal, bullet proof glass, wood)  
Internationally certified on quality standards.

**(Descriptive literature should be submitted with the quotation)**

**(2) Angle Cutter (Electric) 14" dia – 07(seven) Nos.**

**Specifications of Angle Cutter**

- 1) Electric Motor operating in range of 230 Volts, 2600 watts power rating, with a maximum no load speed of 4900rpm and full load speed up to 3000 rpm. 15 Ampere three core electrical cord of 5 meter length with three pin plug will be provided.
- 2) The saw is to mount replaceable 12" (300mm) diameter diamond tipped or tungsten carbide tipped blade with a 25 mm **arbor** (kind of tool). The saw should be able to cut to a minimum depth of 100mm. One tungsten carbide tipped blade will be provided as an integral component of the equipment.
- 3) It should be possible to adjust the position of the tool body through a minimum of 70 degrees independently of the cutting closer to walls and should be provided with guide wheels on the tool guard to ensure smooth travel over the surface material.
- 4) Operator Comfort and Safety Provisions
  - a) A vacuum port for removal of the dust and debris as well as shield for keeping debris away from the operator will be provided.
  - b) A system for disengaging gears from motor to minimize effect of kickbacks will be provided to ensure operator safety.
  - c) A lock on button for continuous operation after start up will be provided.
  - d) A rubberized wrap around handle will be provided.

**5) Accessories**

The following accessories will be provided with each set:-

- a) One spare tungsten carbide tipped blade and two continuous rim diamond tipped blades.
- b) Carrying case
- c) Tool kit
- d) Operation and Maintenance manual

**Evaluation**

- 6) Vendor will indicate all technical details of the equipment to be supplied for evaluation. Physical testing of equipment for cutting capacity, endurance and operator safety and ease of operation will be carried out during evaluation.

**(Descriptive literature should be submitted with the quotation)**

**(3) Replacement diamond tipped blades for angle cutter:- 07(seven) Nos.**

The diamond tipped blade for angle cutter 12"(300 mm) diameter with a 25mm arbor. The blade should be able to cut to a minimum depth of 100mm

**(Descriptive literature should be submitted with the quotation)**

**(4) Replacement Composite Blades for angle cutter:- 07(seven) Nos.**

The composite blade for angle cutter 12"(300 mm) diameter with a 25mm arbor. The blade should be able to cut to a minimum depth of 100mm

**(Descriptive literature should be submitted with the quotation)**

**(5) Bullet Chain Saw 16'':- 07(seven) Nos.**

Carbide tipped chain saw or petrol engine driven saws designed to cut through different building materials like timber, masonry, metal sheet, FRP, PVC etc (but not concrete). These are extremely useful for first responder for inspection, ventilation and obtaining access to victim during CSSR and for other tasks relating to extrication and recovery during natural and man made disasters.

Engine : Two stroke, single cylinder, air cooled petrol engine

Displacement within 100 cc generating power : Between 5 to 6.5 Hp

Engine speed Between : 10000 to 14000 RPM at no load

Chain speed Between : 25 to 30 m/s

Ignition system : Electronic with easy preferably one button start up (to be specified).

Guard bar length : 16 Inch- one piece construction

Cutting Chain : Carbide tipped with locking key and solid bullet rake gauge of size 404 pitch .063 Gauge with heavy duty tie straps and tempered rivets. Fully automatic and adjustable chain lubrication system. Automatic chain break system for quick stoppage when required. Arrangement adjusting chain tension should be available.

Provision for setting : Should have provision for setting and adjusting depth of cut.

Operator Safety and Comfort : Full wrap handle and arrangement for reducing vibration to be specified.

Weight : With in 12 kg

Noise level : Less than 110 dB @ 1 meter

Depth of cut : 6 to 8"

Fuel tank capacity : 0.70 to 1 litre

**(Descriptive literature should be submitted with the quotation)**

**(6) Diamond Chain Saw:- 07(seven) Nos.**

The Diamond Chain Saw should have the following technical features: -

- 1) **Engine** – 2 strokes petrol driven, air cooled, power shall be not less than 5 H.P.
- 2) The starter shall be shielded from the dust & water. It shall have electronic ignition protected from water and single spring clutch proofed from water and concrete Fuel Capacity : 1 litre (Approx)
- 3) The noise level should not exceed 102 dB at 01 mtr.
- 4) It shall be fitted with a diamond chain, which runs over the guide bar. The chain saw shall be capable of cutting RCC up to 360 mm thick and iron rod up to 12 mm dia.
- 5) The water supply required by the chain while cutting shall not exceed 10 lts/Min
- 6) The chain saw shall also be provided with measures/attachments for reducing the force required during cutting operation in order to reduce fatigue on operator.
- 7) It shall also be provided with foam covered full wrap handles, momentary contract on-off switch, water pressure gauge, 360 degree swivel hose connector, sprocket side cover and guard flap for operator safety.
- 8) Weight – Not more than 20 Kgs.
- 9) Cutting rate – 10 to 25 “ per min or more

**(Descriptive literature should be submitted with the quotation)**

**(7) Combination cutter & spreader:- 07(seven) Nos.****Purpose**

Combination tools are double acting hydraulic tools primarily for cutting and spreading but may be used, with suitable attachments as necessary for pushing, pulling and pressing or squeezing. They are used for rescue work following vehicle, tanker or rail accidents, in factories or construction site accidents and in natural disasters, particularly, for collapsed shelter search and rescue. Although specialist and heavier individual function cutters and spreaders are available, combi-tools offer a solution providing multiple functions in a single piece of equipment and its versatility makes it useful in post disaster rescue work.

### Scope of Supply

Each Combi Tool Set will be supplied with a power unit and accessories and spares indicated later.

### Specifications of Combi-tool

General- The Combi-tool should have a light weight, balanced and ergonomic design with anti-slip twist grip handle and safety control. The blades should be made of tempered tool steel. They should be straight, serrated, re-grindable and easily exchangeable. The cylinder body and housing could be made of high strength aluminium alloy or equivalent material. Pigtail(s) should be fitted with anti-kink springs or some form of kink protection, have quick connect couplings and automatic locking.

Working Pressure 630 to 720 bars

Opening (spreading) width More than 300 mm

Minimum spreading force at 2.5cm from tip of blades 35 KN

Spreading force at 630 to 720 bars More than 100 KN

Cutting force at 630 to 720 bars More than 200 KN

Pulling force More than 50 KN

Weight not more than 17 Kgs without hoses should cut round steel bars (as per current EN Standard or equivalent) more than 25 mm diameter. The hoses should be of 10 m length and of different colours, if two hoses are to be used. Factor safety (**similar parameter**) should be of the order of four Operating Temperature -20 to +80 degrees Celsius.

### SPECIFICATIONS OF PUMP

Engine type : Four stroke petrol engine

Pump type : two stage radial piston or alternative equivalent design with max. output exceeding 2 litres per minute.

Operating pressure : 630 to 720 bars

Fuel Tank Capacity : Adequate for minimum three hours running.

Oil Tank Capacity : Minimum 2 litres

Weight : Not more than 16 Kgs (Inclusive hydraulic oil).

Operating temperature -20 to +80 degrees Celsius

Sound level less than # 70 dB (Decibel) at 1m distance.

### Accessories to be Supplied :

Maintenance set. Set of spare blade arms and tips. Toolkit to change blades. Set of pulling chains Set of pulling adaptors. Carry case for combi-tool. Carry box for power unit.

**(Descriptive literature should be submitted with the quotation)**

### **(8) Circular Saw (Electric) 16" dia:- 07(seven) Nos.**

- 1) Electrically powered motor operating in 100 to 250 volts with power consumption between 1600 to 2500 watts. 15 ampere three core electrical cord of 5 meter with three pin plug.
- 2) Idling speed of motor up to 200 to 3000 rpm with a maximum load rpm of 1200 to 1500 rpm. The motor have a minimum endurance for continues operation up to 60 minutes.
- 3) Incorporate easily locatable push button start and an electric brake for quick stoppage.
- 4) Size of blade: 16" inches diameter with an arbor not exceeding 3.2 CM (1.25 inches). The blade provided will be carbide tipped blade with minimum 32 teeth.
- 5) The cutting capacity of the blade exceeds 125 mm at 90 degrees and 82 mm at 45 degrees. The saw should enable table blade rotation and a depth adjustment lever. A shaft lock he has been provided for effecting blade changes.
- 6) The weight of the saw with blade is not more than 17 kgs.
- 7) Rubberized wrap around saw and support handles with protection arrangement for shielding operator fro, debris and kickbacks.
- 8) Noise level during operation at full load does not exceed 100 db for a distance of one meter.

**(Descriptive literature should be submitted with the quotation)**

**(9) Replacement Carbide tipped blade for Circular Saw:- 07(seven) Nos.**

The cutting capacity of the blade should exceed 125 mm at 90 degrees and 82mm at 45 degrees. The saw should enable stable blade rotation and a depth adjustment lever.

**(Descriptive literature should be submitted with the quotation)**

**(10) Ramset with matching foot pump:- 07(seven) Nos.****Purpose**

RAMs are hydraulic tools used for pushing apart and staying two masses of material in order to create space for extrication of victims following vehicle crashes, earthquakes or rail and industrial accidents. They can be single or multistage (telescopic) and operated by hydraulic pumps which may be based on IC engine power or on hand/foot pumping. The oil from the pump is used with either a two hose connection to the RAM or by a single hose with two concentric chambers.

**Scope of Supply**

Two stages telescopic RAM with foot pump.

RAM support Maintenance Set

**Specifications**

Max. Working pressure : 630 to 720 bars

Max. Spreading force

1<sup>st</sup> plunger : 20 T

2<sup>nd</sup> plunger : 8 T

Length retracted : 60cm

Total stroke : 70 cm

Max. length (incl. cross heads): 130 cm

Weight, ready for use : 20 kg

Temperature reach : -20C + 60C

**Safety factor**

Tool, Hydraulic : 2

Safety factor extension hoses : 4

**Accessories**

Spare Hose(s) (not less than 2 mtrs)

Maintenance Set

Cross Head

Ram Support

**Specifications of Hand pump**

Operating pressure : 630 to 720 bars

Weight (ready for use) : 11.2 kg

Temperature reach : -20<sup>o</sup>c - + 60<sup>o</sup>c

**Accessories**

Maintenance Set Standards Equipment must conform to prEN **(Germany Standard)** 13204 and/or NFPA **(National Fire Protection Association)** 1936 standards for hydraulic tools and certifications will be submitted with tender.

**(Descriptive literature should be submitted with the quotation)**

**(11) Hydraulic Jack 20 Tons:- 07(seven) Nos.****WEDGE JACK**

Working pressure : 700-750 bar

Lifting height : 50mm Minimum

Insertion height : Not more than 14 mm

Spreading force : 20 T or more

Wedge Angle : 15<sup>o</sup> Min

Weight, ready for use : Not more than 15 Kgs.

**TOE JACK**

Insertion height toe : Not more than 60 mm

Low cap height : More than 12"

Stroke : 250 mm Minimum

Maximum lifting force at the centre : 12 T Minimum

Maximum lifting force on the toe : 10 T Minimum  
 Temperature Reach : -20<sup>0</sup>+ 60<sup>0</sup>

**(Descriptive literature should be submitted with the quotation)**

**(12) Tripod (Confined Space):- 07(seven) Nos.**

Aluminum light weight adjustable tripod to rescue the person from deep well, also to be use for raising and lowering of person into confined space the following:

- i. 8' ft. length tripod made of alluminium.
- ii. 60 mtrs. length polyimide rope lifting load capacity 250 Kg. one side fixing fuel body harness as per EN 361.
- iii. Winch machine much fixed with one leg of the Tripod.
- iv. All devices must have packed in carrying bag.

Total weight of the equipment must have 15 to 70 Kg.

**(Descriptive literature should be submitted with the quotation)**

**(13) Hammer drill concrete:- 07(seven) Nos.**

Power Input : Not more than 750 Watt on variable speed

Nominal Speed : 0-900 (Right rotation – 900) (Left rotation not less than 400)

Impact Rate : Not less than 2 J

Electrical cord : 5 mtr in length with 15 amp plug

Weight : Not more than 3.5 Kg.

Accessories : Adjustable bits of different diameter. 5 mm And 10 mm for concrete, 10 mm & 15 mm For steel and 20 mm, 30 mm, & 40 mm for wood.

**(Descriptive literature should be submitted with the quotation)**

**(14) Air Lifting Bags set with air cylinder:- 07(seven) Nos.**

The Air lifting bags are designed for lifting accidental vehicles, trains storage tanks and parts of collapsed buildings and shall be constructed of multiple piles of Neoprene and Neoprene coated Kevlar.

Dimensions	Weight	Capacity	Lift Height
37" x 37" x 1"	60 lbs	70.2 Tons	20.0 in.

Air Lifting Bag shall have a maximum thickness of 1 in. (2.54 cm) and a maximum working pressure at 118-psi (8 bars).

The Regulator must be equipped with the following safety features:-

- High pressure inlet to accept both CGA346 & CGA347 air fittings.
- Regulator outlet shall have shut off valve.
- A self resetting pressure relief valve.
- Gauges showing inlet and outlet pressures.

**(Descriptive literature should be submitted with the quotation)**

Sd/-  
 Director,  
 Fire & Emergency Services, Assam,  
Panbazar, Guwahati.



**NIT No. F&ES/PS/2003/103/Pt-III/2241-50 Dated Guwahati the 23.06.2015.**

Copy to:

1. The Chief Executive Officer, Assam State Disaster Management Authority, Assam Sachivalaya, Dispur for kind information.
2. The Director of Industries, Udyog Bhawan, Bamunimaidam, Guwahati – 21 for information.
3. The Secretary to the Govt. of Assam, Home (B) Department, Dispur for information.
4. The Senior Financial Adviser to the Govt.of Assam, Home (B) Department, Dispur for information.
5. The Finance and Accounts Officer, Fire & Emergency Services, Assam, Guwahati for information.
6. The Fire Prevention Officer, Fire & Emergency Services, Assam, Guwahati for information.
7. Office Notice Board.
8. Office Website [www.asfso.org](http://www.asfso.org) .
9. M/S .....

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Sd/-  
Director,  
Fire & Emergency Services, Assam,  
Panbazar, Guwahati.