



**DIRECTORATE GENERAL  
FIRE SERVICES, HOME GUARDS & CIVIL DEFENCE,  
ODISHA**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

1. Sealed tenders are invited from the original equipment manufacturer (OEM) or their authorized agent/ dealer for purchase of different types of equipment during 2020-21. The details of equipments with requirement are as follows.

Sl No.	Name of the item	Approximate Quantity
1	Hydraulic Rescue Tools (Cutter, Spreader, Combtools and Ramjack with Power Pack)	25 Nos
2	Delivery Hose fitted with Coupling	1969 Nos
3	Lifting Bag	06 Nos
4	Diesel Barrel (200 Ltrs Capacity)	61 Nos
5	Concrete Cutter	20 Nos
6	Rescue Line ( $\frac{1}{2}$ " Dia, 30 Mtrs Length Each)	167 Nos
7	Alarm Bell with Pendulum	60 Nos
8	Aluminum Extension Ladder	60 Nos
9	Rescue Line (1" Dia, 30 Mtrs Length Each)	69 Nos
10	Rescue Line (2" Dia, 30 Mtrs Length Each)	49 Nos
11	Polyurethane Jarcane (35 Ltrs Capacity)	129 Nos
12	Battery Charger	59 Nos
13	Generator	20 Nos

2. The tender document with detail technical specification may be seen from the state website [www.odisha.gov.in](http://www.odisha.gov.in) and Odisha Fire Service website [www.odishafshgscd.gov.in](http://www.odishafshgscd.gov.in). The tender document may be obtained by depositing `300/- (Rupees three hundred) only between 11.00 A.M to 5.30 P.M each working days from the office of the undersigned at the address given below or downloading from state website and should be submitted duly signed in each page of the tender document with seal in token of having read understood and accepted the terms and conditions of the contract in the address given below. The tender should be submitted in prescribed format along with a Demand Draft Non-A/C payee of `300/- (Rupees three hundred) only payable at SBI, Main Branch, Cuttack (Code No-0059) in favour of D.D.O, Directorate General of Fire Services, Odisha, Cuttack, towards the cost of tender paper in case of firms submitted tender by downloading the tender document from website. However, the authorities shall not be responsible for postal or any other delay.

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**  
**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

Page 2 of 2

3. The bidder has right to quote any one of the item and it is not mandatory to quote all items mentioned in the tender.
4. Bids submitted other than the manner prescribed in the tender document shall be rejected.
5. The Tender Calling Authority has right to accept or reject the tender(s) without assigning any reason thereof. The bidder should drop the sealed tender packet in the "Tender Box" available in the office of the undersigned by the stipulated date and time at his own risk and responsibilities.
6. Sale of tender document w. e. f. dt.13-02-2021.
7. Last date for sale of tender document dt.01-03-2021, 5.30 P.M.
8. Last date for receipt of tender document dt.01-03-2021, 5.30 P.M.
9. Date for opening of tenders/Technical Bids dt.02-03-2021, 11.30 AM. onward.
10. Date of **Technical Committee** for evaluation of samples dt.03-03-2021, **11.30 A.M** onwards at O/o the Chief Fire Officer, Kanika Chhak, Odisha, Cuttack.
11. The bidders are required to depute their representatives to remain present during opening of Tender/ Technical Bid as per dates mentioned above.
12. The tenders received after the stipulated date shall not be taken in to consideration and liable for rejection.
13. The tender calling authority has the right to cancel or alter quantity of any of above item without assigning any reason thereof.
14. Address.  
Directorate General of F.S, H.Gs & C.D,  
At-3<sup>rd</sup> Floor of Vigilance Directorate,  
Nuapatna, Cuttack, Pin-753001  
FAX-0671-2300201/ 2303387.



**I.G of Police, Fire Service,  
Home Guards & Civil Defence,  
Odisha, Cuttack.**

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Address - 3<sup>rd</sup> Floor, Vigilance Building, Nuapatna, Buxibazar, Cuttack-753001  
Tel. - 0671-2300317, Fax : 0671-2300201,  
E-mail : [dfoprov-ofs@gov.in](mailto:dfoprov-ofs@gov.in), [afoprov-ofs@gov.in](mailto:afoprov-ofs@gov.in)

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**



**DIRECTORATE GENERAL  
FIRE SERVICES, HOME GUARDS & CIVIL DEFENCE,  
ODISHA**

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Letter No. \_\_\_\_\_/Prov., Dated. -02-2021.

To

M/s

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIFFERENT TYPES OF EQUIPMENTS FOR ODISHA FIRE  
SERVICE ORGANIZATION DURING THE  
FINANCIAL YEAR 2020-21.**

**DIRECTORATE GENERAL  
FIRE SERVICES, HOME GUARDS & CIVIL DEFENCE,  
ODISHA**

Certified that the book contains Page- 1 to 23.

1. Sale of tender document W.e.f - dt.13-02-2021
2. Last date for sale of tender document - dt.01-03-2021, 5.30 P.M
3. Last date for receipt of tender document - dt.01-03-2021, 5.30 P.M
4. Date of opening of sealed Tender/  
Technical Bids. - dt.02-03-2021, 11.30 A.M
5. Date of Technical Committee for  
evaluation of samples - dt.03-03-2021, 11.30 A.M onwards  
at O/o the Chief Fire Officer, Kanika  
Chhak, Odisha, Cuttack.

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
TENDER DOCUMENT NO-(I)**

**GENERAL CONDITIONS OF THE CONTRACT.**

1. The bidder/supplier should either be an Original Equipment Manufacturer (OEM) or their agent /dealers authorized to sell, supply and service their products. The latest authenticated documentary proof of this shall be submitted. The proof submitted earlier in some other context shall not be treated as valid and sufficient.
2. All the information as called for in the tender document should be submitted truly, clearly, legibly, transparently, unambiguously and without the use of abbreviations. It shall be submitted in English.
3. All the crucial figures, like, rates and amount should written in figures followed by words in a bracket.
4. There shall be no over writing in the tender document and other papers submitted.  
All the addition, alterations, deletions and cuttings should be initialed with rubber stamp (or seal) by the same person, who signs the tender document. Failing so, the tender may be rejected.
5. The tenders (also call bids) not submitted in prescribed format or in the prescribed manner, shall be rejected at the risk and responsibility of the bidder.
6. All the rates and amounts shall be quoted in Indian Rupees (IR) and shall be presumed to be in Indian Rupees unless specifically permitted to be quoted otherwise in these tender documents.
7. The rates quoted shall be valid for a period of one year counted from last date of receipt of bids/ tenders.
8. Each page of this tender document should be signed by the bidder with seal in token of having read, understood and accepted the terms and conditions of this contract.
9. For the Companies and Corporation making the bids, the tender document shall be signed by the Managing Director. If it is otherwise, the authority to sign the tender papers on behalf of the Company/Corporation shall be enclosed. In case of partnership Firm, it shall be signed by the active partner. In case of a Proprietary Firm, the tender document shall be signed by the proprietor.
10. "Legal Status" of a bidder shall mean either proprietorship or partnership of private/Public limited Company or otherwise (to be specified) as the case may be.
11. All the documents and papers submitted with the bid should either be in English or in Oriya and shall be authenticated under the seal and signature of the bidder unless specified otherwise in this tender document. If the documents are in any other language, a true translation in English, duly certified by an independent person of repute, shall be submitted.

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

12. All the promotional and technical literature of the products intended to be supplied should be submitted for proper appreciation of the bid, whether or not specifically call for in this tender document. This literature should also be in English.
13. Submission of more than one competitive bid by the same firm in response to the tender call notice is prohibited. All such bids, except one, will be cancelled at the discretion of the authority calling the bids. A bidder may, however, offer in his bid more than one product of the same Original Equipment Manufacturer (OEM) if in his opinion, all such products meet the prescribed technical specifications. In that case, he should submit "Technical Bid" of all such products separately but in the same prescribed format, in the same sealed single cover. Separate "Financial Bids" should also be submitted similarly in the same sealed single cover (see below for the meaning of sealed cover).

**NOTE**

- i) A bidder can not bid the same item for more than one OEM firm.
14. The bidder may use separate piece of paper, where the space provided in the formats in this tender document for submission of information, is not sufficient. The information in the separate sheet of paper shall be prescribed format and each page should be serial numbered and duly authenticated.
15. All the information submitted or supplied in the formats in this tender document shall be presumed to be true to the best of knowledge of the bidder.
16. No firm/Company without valid Value **GST Registration number** and PAN shall be eligible for submitting bids. Firms blacklisted shall also not be eligible for participating in the bid.
17. Copy of Valid Registration Certificate issued by competent Authorities under the **GST Act** and copy of PAN shall be enclosed to the Tender document. In no case other certificates issued by authorities in lieu of such certificates shall be accepted.
18. Copies of income Tax return and Annual VAT and CST returns of previous year along with copies of Audited Balance Sheets, P/L a/c and Trading a/c of previous year where ever applicable need also be enclosed to the Tender document by the Original Equipment Manufacturer / Authorised Agent of OEM.
19. At the time of opening of Tender/Financial bid the bidder will have to satisfy the competent authority that he is not only authorised as per his Registration Certificates to deal in the tendered item but he has also a running business in such items and he has the ability to supply the tendered quantity in prescribed time limit and to meet the warrantee conditions of the product.
20. The Bid Security/ Earnest Money Deposit (EMD) shall either be in the form of Demand Draft/Banker's Cheque of a scheduled Bank payable at Cuttack or by pledging of NSC/FDR/Postal Saving Pass Book all in favour of D.D.O, Directorate General of Fire Service & Home Guards & Civil Defence, Odisha, Cuttack. EMD shall be returned immediately after the rejection of a Bid. The DD/Banker's

## SHORT TENDER CALL NOTICE NO.-6/2020-21.

### DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.

Cheque/NSC/FDR/Postal Saving Pass Book etc. shall be returned in original with or without reverse endorsement as required for the refund. EMD of the successful bidders shall be retained till the supplied materials/articles are successfully delivered as ordered or adjusted against performance security. After that it shall be returned in the same manner as in the case of unsuccessful bidders.

21. This tender document has prescribed a two bid format for submitting the offers. It contains the "TECHNICAL" and 'FINANCIAL' bid formats. Both the bids shall be submitted in separate sealed cover identified as 'TEHCNICAL' or 'FINANCIAL' bid after detaching their formats from this tender document. Both the sealed covers, the remaining part of this tender document and all the other papers/documents should be put inside a bigger sealed cover and shall be delivered as per conditions published in the tender call notice. All the sealed covers shall have boldly written with the name of the supplier/bidder, the tender call notice number and the last date for submission.
22. The tenders or the bids can be sent by Regd. Post or courier as well. However, the authorities shall not be responsible for the postal and other delays in receipt of bids. The Tenders/ Bids can also be dropped in the sealed "Tender Box" kept in the office of the Tender Calling Authority.
23. If the last date for submission of the tender/bid turns out to be a holiday, it will automatically be extended to next working day.
24. The tender calling authority shall make arrangements in his office for issuing a written acknowledgement, under proper seal and signature of the filled in tenders, provided those are submitted on or before the due date. The acknowledgement shall be issued even if the tenders are required to be dropped in a sealed box. The acknowledgement receipt shall mention, among others, the tender call notice number.
25. A bid submitted can not be withdrawn. The bidder or his authorized representative (one person only) will be allowed to be present at the time of opening of tenders. They will not participate in the discussions. Clarifications sought, if any, may be provided by them.
26. All or any of the tenders (or bid) submitted can be rejected without assigning any reason thereof. No claim, whatsoever, shall be admissible for; the alleged loss/damage suffered by the bidders on account of such rejections.
27. The sealed Tenders and Technical Bids shall be opened by the Technical Committee in 1<sup>st</sup> stage. The documents like EMDs, GST Regd. No. etc shall be verified to ensure that the bidders have been found to have fulfilled all the prescribed criteria and conditions of this tender document other than technical specifications of the products.
28. All the products, failing to fulfill the prescribed technical specifications, will be rejected. Decision of the Technical Committee in this respect shall be final and binding. A bidder can improve the technical specifications of the product offered

## SHORT TENDER CALL NOTICE NO.-6/2020-21.

### DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.

before the opening of 'Financial Bid'. Decision of the Technical Committee on, whether or not, the revised specification is an improvement, shall be final. Improvement in the technical specifications offered as above, may be accepted or rejected at the discretion of the Tender Calling Authority.

29. Notwithstanding an offered product meeting the prescribed technical specifications, it may be rejected, if it has not been tried and tested or used in Orissa Fire Service with satisfaction. It may also be rejected if the bidder fails to successful demonstration before the Technical Committee.
30. 'Financial Bids' shall be opened only in those cases, where one or more of the offered products have fulfilled the prescribed technical specifications. No preference or extra payment shall be admissible for the superior technical specifications or quality of the like if any. All the financial documents like Registration Certificate issued under GST Act and IT Acts, IT, S.T returns, Audit Balance Sheet, Trading Account and P/L Account shall be verified at the time of opening of Financial Bids.
31. All the prices quoted shall be FOR Cuttack, Odisha. This means that the prices shall include the cost of delivery at Cuttack.
32. The authorities are not bound to accept the lowest Financial Bid.
33. The order for supply may be placed on the successful bidders but the technical specifications (or quality requirements) for the purpose of supply shall be those, which were offered and accepted by the Technical Committee and not those specified in the tender document.
34. On delivery, the supplies or products shall be inspected to verify the quantity and to see whether those are in accordance with the technical specifications (or quality requirements) for which the order was placed. If it turns out to be otherwise the acceptance of delivery shall be refused at the risk and responsibility of the supplier. Further, the articles found damaged shall not be counted as accepted until repaired or replaced to the satisfaction of the authority.
35. Short deliveries may not be accepted. All the items ordered must be supplied in full for claiming even the part payment.
36. All the transit risks shall be the responsibility of the supplier.
37. User manuals of the product shall be supplied without being asked for or even if it is not mentioned in the supply order. Moreover, it should be in English.
38. Failure to supply the order in full within the stipulated period or supply of substandard goods may lead to forfeiture of EMD and blacklisting of the suppliers. If at all the delivery is allowed to be accepted after the due date, Liquidated Damages (LD) @ 0.5% of the total amount of order (excluding taxes) per week or part thereof shall be charged from the bidder, however, that the L.D. shall not exceed 5% of the amount of order.

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

39. The supplier shall submit an undertaking given by him or the OEM committing to supply spare parts for the maintenance of the supplied items for a period at least 18 months from the date of supply.
40. The supplier shall give a "Performance Warranty" for a minimum period mentioned in the special condition or one year of the contract. 5% of the amount of the order (excluding taxes) as mentioned in the special conditions of the contract shall be deposited in shape of FDR/Irrevocable Bank Guarantee duly pledged in favour of Tender Calling Authority and shall be returned after the performance warranty period is over. The said amount may be forfeited partially or fully for failure to fulfill the terms and condition of supply and post sales commitment/obligations. The Bank Guarantee should be enforceable and payable at Cuttack. The Performance Security should remain valid for a period of 60 days beyond the date of completion of the obligation of the supplier including warranty obligations.
41. The bidder must submit in a separate paper mentioning "complied or not complied" against each column of the Tender Specification given in the Tender document.
42. Terms and conditions of this tender document can not be negotiated for variation without obtaining the prior approval of the Govt.
43. All the clarifications sought from the bidders/suppliers on technical specifications of the products or otherwise shall be promptly submitted in a transparent and unambiguous manner.
44. Entire tender document duly filled in shall be treated as part or the contract agreement for supplies in case of the successful bidders.
45. All the disputes shall be subject to jurisdiction of Civil Courts situated at Cuttack.
46. The bidder shall submit all required documents along with tender. Under no circumstances a bidder would be allowed to make any addition/ alteration if any, related to tender or to submit required documents after receipt of the tender by the tender calling authority.

**Seal & Signature of the Bidder**

  
**I.G of Police, Fire Service  
Home Guards & Civil Defence,  
Odisha, Cuttack.**



**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**TECHNICAL BID**

<b>SL.NO.</b>	<b>NAME OF THE ITEMS.</b>	<b>WHETHER OFFERED PRODUCTS FULFILLS THE DETAILED TECHNICAL SPECIFICATIONS KINDLY ANSWER YES OR NO ONLY.</b>	<b>OFFERED SPECIFICATIONS AND DETAILS OF VARIATIONS IF ANY.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

**Signature & Seal of the Bidder.**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**FINANCIAL BID**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**NAME OF THE ITEMS..... PER UNIT IN INDIAN RUPEES**

1. Price including all the duties & levies :
2. Basic Unit Price :
3. IGST @ - % - :
4. CGST @ - % - :
5. OGST @ - % - :
6. Other Charges (To be specified)
7. Total Unit price of the Item :
8. Total amount payable for supply of entire quantity of the item mentioned in the tender document. :
9. Name of the Original Manufacturers and The brand name or trademark of the item :

**Signature & Seal of the Bidder.**

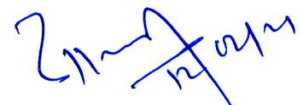
**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**GENERAL BID FORM**

**(SHORT TENDER CALL NOTICE NO.-6/2020-21)**

1. Name, Full Address, Fax No.  
Telephone No. & E-Mail of the firm. :
2. Legal status of the firm :
3. Items for which you have submitted  
the Bid :
4. For which of the items above you are the  
ORIGINAL EQUIPMENT MANUFACTURER  
(OEM) :
5. Give the location and Address of your  
Factory. :
6. For the items listed at (3) above and  
where you have submitted the bid but  
you are not the O.E.M. indicate against  
each the names of the O.E.M :
7. Kindly confirm by writing 'yes' or 'no' only  
that you have been authorized by the  
respective O.E.Ms either as dealer or as  
sale, supply and servicing agent in respect  
of the items you are not the (OEM) :
8. Which of the items, you have submitted  
the bids for, will be fully or substantially  
imported. Indicate the country to be  
imported from. :
9. Have you enclosed the EMD? If yes,  
mention the amount and its identifying  
details.
10. Have you enclosed all the documents  
and papers called for in this tender  
document? Kindly enclose a list(use  
a separate sheet of paper) :
11. If the answer to (10) above is 'No' which  
is the documents/document have not been  
enclosed.(Kindly enclose a list of such  
documents/papers).Use a separate sheet  
of paper if necessary. :
12. Do you have a post sales servicing,  
center in Odisha? If yes, give its name,  
full address, Fax and Telephone numbers.

**Seal & Signature of the Bidder**



**I.G of Police, Fire Service,  
Home Guards & Civil Defence,  
Odisha, Cuttack.**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**SPECIAL CONDITION OF THE CONTRACT.**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**TENDER DOCUMENT NO. (II)**

1. The Special Conditions given here shall prevail over the General Conditions.
2. **Bid Security:** - The tender document shall accompany with Earnest Money Deposit (EMD) at the rate quoted at Col-5, Para-3 without which tender shall be rejected. The EMD deposited instrument should be available outside the sealed covers of "Technical" and "Financial" Bid. (EMDs available in the Technical Bid also be accepted). However the MSEs registered in Odisha with respective DICs, Khadi Village, Cottage and Handi craft Industries, OSIC and NSIC shall pay 25% of the prescribed security deposit while participating in tender.
3. **Quantity:** - Sealed Bids in this tender document have been invited for the supply of the items listed below. The approximate quantity required has been mentioned against each. The detailed technical specifications of each item are available in the **Annexure-'A'** to "Special Conditions of the contract" identified against each.

Sl No.	Name of the item	Approximate Quantity	Technical Specification	E.M.D Value
1	2	3	4	5
1	Hydraulic Rescue Tools (Cutter, Spreader, Combtools and Ramjack with Power Pack)	25 Nos	Technical Specification as Annexure-A	₹6,25,000/-
2	Delivery Hose fitted with Coupling	1969 Nos	-- do --	₹2,55,970/-
3	Lifting Bag	06 Nos	-- do --	₹1,20,000/-
4	Diesel Barrel (200 Ltrs Capacity)	61 Nos	-- do --	₹1,830/-
5	Concrete Cutter	20 Nos	-- do --	₹58,000/-
6	Rescue Line ( $\frac{1}{2}$ " Dia, 30 Mtrs Length Each)	167 Nos	-- do --	₹10,020/-
7	Alarm Bell with Pendulum	60 Nos	-- do --	₹9,600/-
8	Aluminum Extension Ladder	60 Nos	-- do --	₹19,800/-
9	Rescue Line (1" Dia, 30 Mtrs Length Each)	69 Nos	-- do --	₹5,175/-

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

10	Rescue Line (2" Dia, 30 Mtrs Length Each)	49 Nos	-- do --	`4,165/-
11	Polyurethane Jarcane (35 Ltrs Capacity)	129 Nos	-- do --	`645/-
12	Battery Charger	59 Nos	-- do --	`11,800/-
13	Generator	20 Nos	-- do --	`86,000/-

4. The quantities mentioned above are subject to variations. The rates quoted per Unit shall continue to be valid even if the quantities of items mentioned above are varied. Further, the bidder should certify that the rates quoted by it or any item listed above shall remain valid subject to variation in any Govt. Tax Structure on the same (i.e. base price of the item quoted shall remain valid irrespective of variation in the Tax Structure) for a period of one year from the date of finalization of the rate by the Purchase Committee.
5. It shall not be necessary to bid for all the items above.
6. The bidder shall submit along with this tender document a list of names, complete address, Telephone/FAX number of the customers to whom, the item, for which the bid has been submitted, have been supplied and installed in last three year, if any. A clear, unambiguous statement shall be made if an item has not been sold anywhere in India so far.
7. The supplies shall be delivered at Cuttack.
8. Working of the equipment shall also be demonstrated and the expenditure incurred thereof shall be borne by the supplier.
9. The supplier shall train at their cost our employees.
10. **Performance Security:** - The successful bidder shall have to enter into an agreement with the Tender Calling Authority for successful completion of supply/ installation of the tendered items after proper inspection within the stipulated period and also for performance warrantee of the items from the date of supply/ installation up to a period of one year. In this regard the selected firm shall have to deposit 5% of the cost of stores excluding taxes as security deposit called as Performance Security in shape of FDR/ irrevocable Bank Guarantee duly pledged to the Tender Calling Authority which will be returned back after performance warrantee period is over. The Performance Security should remain valid for a period of 60 days beyond the date of completion of the obligation of the supplier including warranty obligations.
11. All the supplies made shall be subject to a minimum period of one year warrantee for all items.
12. OEMs/ Authorized venders should mention the price of the quoted tender items including respective period of AMC cost as mentioned in the

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

specification. The basic price of quoted items mentioned in the Financial Bids of OEM/ Authorized Vender should be treated along with the AMC Cost.

13. Other things being equal, preference shall be given to a bidder, who has opened his sale and service center in Odisha.
14. If an equipment or supply goes out of order within the warranty period and the supplier is informed above it, It must be attended to within 48 hours counted from the time the service call is placed.
15. **Payment:** - No advance shall be paid. 100% of the payment will be made on delivery of supplies after successful installation and demonstration.
16. The firms located outside the State of Odisha should include their transportation charges with the basic price.
17. Entry Taxes, if any should be clearly indicated in the tender. The amount if paid by the party should be supported with documentary evidence, failing which the said amount shall be deposited by way of Treasury challan.
18. The bidder must attend the Technical Committee with samples for evaluation/ demonstration purpose. Without sample the offer will be not taken into consideration.
19. Before under taking the final contract the successful tenders will have to enter into an agreement with the department at their own cost in Govt. stamp paper.
20. **Sample:** - The tender shall accompany samples of the items quoted. No rate shall be quoted without furnishing the sample. In case the rates are quoted without samples, the tender is liable for rejection. The parcel containing samples should be freight paid. A label with seal and the details of manufacturing unit/ company with trademark of the articles so tendered, if any should be affixed to the sample. The label should contain a reference to the serial number of the articles quoted/ indicated in the tender. In respect of all ISI products mentioned in the tender the relevant ISI mark shall be printed on the sample. For each item not more than 2 (two) variety of samples shall be submitted by a vender.
21. As regards ISI marked, the attested copies relating to valid Registration of IS number of the item, if obtained from Indian Standard Bureau, New Delhi are to be enclosed.

**Seal & Signature of the Bidder**

  
**I.G of Police, Fire Service,  
Home Guards & Civil Defence,  
Odisha, Cuttack.**

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**Annexure-A.**

**TECHNICAL SPECIFICATION OF DIFFERENT TYPES OF EQUIPMENTS FOR  
ODISHA FIRE SERVICE ORGANIZATION VIDE SHORT TENDER CALL  
NOTICE NO.-6/2020-21.**

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**1. HYDRAULIC RESCUE TOOLS (CUTTER, SPREADER, COMBITOOLS AND RAMJACK WITH POWER PACK): -**

The Hydraulic Rescue tools shall be portable and light-weight, and shall be suitable to use by one man.

The Hydraulic Rescue tools shall be supplied in set form, consist of main equipment like spreader, cutter, telescopic ram, high pressure hoses & power pack along with all the accessories.

The Hydraulic Rescue tools and its accessories shall comply with all the requirements stipulated under EN 13204 or equivalent national / international standards.

For the safety of the operators, victims and bystanders, the tools shall be powered by non-toxic, mineral based hydraulic oil. Any toxic fluid shall not be used.

All pressure hoses shall have a safety factor of not less than 4 times the maximum working pressure. All hoses shall be provided with anti kink springs with exception of the non kinking one hose system.

All tools, hoses and pumps shall be equipped with compact, non-drip quick-connect couplings fast and easy connection. All female couplers shall be equipped with automatic self-locking to prevent accidental disconnecting. Preferably the couplers would have 360 degrees free movement for the easy of uncoiling.

The hydraulic rescue tools shall be designed to withstand a test pressure of two times their maximum working pressure. Each tool has to be equipped with two internal safety valves for protection against any type of mechanical or hydraulic overload for each cylinder and each tool shall have a separate safety valve for protection against overpressure in case one of the return couplers is disconnected. Moreover, all tools shall be tested for safety according to the American NFPA 1936 requirements (e.g. full load cycle tests) and comply with the European CE safety standards and European Norm. EN13204.

All hydraulic rescue tools shall be equipped with automatic double pressure check valves to hold any load in any position when the control valve is in neutral position, or in cases of disconnected couplers or sudden pressure drops.

The cutters, and spreaders shall be provided with a non-slip, suitably shaped carrying handle which allows the operator to reposition the tool from one side to the other (left to right and back). The carrying handle would be mounted

## SHORT TENDER CALL NOTICE NO.-6/2020-21.

### DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.

in such a way that the tool is fully balanced, even when the tool is picked up with one hand. The position of the carrying handle and the control handle shall allow easy operation for right handed as well as left handed operators.

Hydraulic rescue tools shall be provided with, double acting hydraulic cylinder with a dead man's type control and shall be able to operate easily with one hand by the operator in any position.

The tools shall be provided either with two hoses, one for pressure line and another for return line or one hose having pressure line and return line within one hose. The hoses shall be fitted in the center of the handle to avoid personal harm in case of leakage. The hoses shall allow full 360° rotation and shall be in case of dual hose system equipped with anti-kink springs over the entire length.

The tool body, yokes, and spreader arms shall be made out of high quality aluminum alloy for solid construction with low weight. All aluminum alloy parts shall be ANODISED as a protection against corrosion and scratching. All hinge pins, levers and cutter blades shall be made out of high tensile (heat treated) tool steel, blackened as protection against corrosion.

The tools construction shall allow under water use for long periods without the risk of any material damage to any part of the tool.

All hydraulic tools, pumps, hoses and accessories would be fully operational for longer periods at temperatures of -20° C up to + 55° C.

The tools shall be supplied with proper operation / safety instruction manuals, according to the CE standards. Operation and safety instructions shall be on the tools and shall be in pictogram style so that they shall be understood by all operators easily.

#### **(i) Spreader.**

The spreader shall be double acting hydraulically operated device of light weight construction made of anti corrosive high strength material capable of being lifted, and operated manually easily.

The spreader would be capable of spreading; and pulling with the combination of chains.

In the tool with two hose system the tool shall be supplied with connection hoses of 0.5 meter long complete with coupling, dust cap and protection springs over total length. The female coupler should be of automatic self-locking system type. In the case of one hose system, a male connector shall be fitted to the tool to connect the hose.

The spreader shall be provided with spreading tips made of fully hardened, high tensile tool steel with proper serrations outside and inside for a perfect grip during spreading as well as squeezing operation. The tips shall be mounted on the spreader arms by means of a quick locking system. This quick lock system shall provide the possibility to change the spreading tips for cutting tips or pulling adaptors single handed, without loose parts and without the need for extra tools.



## SHORT TENDER CALL NOTICE NO.-6/2020-21.

### DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.

Pulling adaptors and pulling chains shall be offered as accessories. These accessories shall be of the quick lock type. The pulling adaptors shall be equipped with shortening hooks which easily fit in each shackle of the pulling chains to assure quick connection. The pulling chains shall be equipped with the same shortening hooks in order to easily mount the chains to any object of whatever size or shape.

**The spreader shall have following specifications:**

#### **Hydraulic Spreader complete with pulling head set and chain set.**

The minimum spreading force	04 Tons
Minimum spreading distance	425 mm
Minimum squeezing force	06 Ton
Minimum pulling length	260 mm
Minimum pulling force	04 Ton
Weight not more than	25 Kgs
The tool with 0.5 mtrs tail hoses with protection spring (Only for dual Hose tools)	
It should have well serrated tips for perfect grip for spreading & squeezing with slim arms & yoke design for easy penetration in confined spaces.	
Rotary control/ Push button for spreader operation with spring return to neutral position.	
Built in double check valves, full protection against overload with carrying handle.	
Accessories. Pulling chains, chain adaptors.	
The design of the tool shall be based on EN 13204 with Type test certificate	
The tools shall be of reputed make	
Operation and maintenance manual	

#### **(ii) Cutter.**

The cutter shall be double acting hydraulically operated device of light weight construction made of anti corrosive high strength material. The details and design features of the cutter and its controls and material used for construction of its major components such as blades, cylinders and other components shall be given in the offer.

The cutter shall be capable of cutting of various sections such as solid ground bar, hallow round bar, flat section, square tube, rectangular tube etc. It would also cut the door pillars of new generation cars.

In the tool with two hose system the tool shall be supplied with connection hoses of 0.5 meter long complete with coupling, dust cap and protection springs over total length. The female coupler should be of automatic self-locking system type. In the case of one hose system, a male connector shall be fitted to the tool to connect the hose.

The cutter blade shall be inclined type for optimal faster and easier cutting in critical positions. The cutting blades shall be of shock resistant non corroding alloy steel, hardened and ground and shall be exchangeable and regrindable. The material specification of the cutting blades and hardness shall

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

be indicated in the offer. The cutter shall also be able to cut the other various sections as stipulated in EN 13204 category.

**The cutter shall have following specifications:**

**Hydraulic Cutter with pulling adaptor and chain set.**

Minimum cutting force in the recess	50 Ton
Round bar cutting capacity	32 mm to 45 mm dia
Minimum blade opening	150 mm
Weight not more than	25 Kgs
The tool with 0.5 mtrs tail hoses with protection spring (Only for dual hose tools)	
Rotary control/ Push button for cutter operation with spring return to neutral position	
Built in double check valves with full protection against overload with carrying handle.	
The design of the tool shall be based on EN 13204 with Type Test Certificate	

**(iii) Combination Tool.**

The combitool shall be double acting hydraulically operated of light weight construction made of anti corrosive high strength material.

The combitool shall be capable of cutting of various sections such as solid round bar, hollow round bar, flat section, square tube, rectangular tube etc. It would also cut the door pillars of new generation cars.

In the tool with two hose system the tool shall be supplied with connection hoses of 0.5 meter long complete with coupling, dust cap and protection springs over total length. The female coupler should be of automatic self-locking system type. In the case of one hose system, a male connector shall be fitted to the tool to connect the hose.

The blades shall be of shock resistant non corroding alloy steel, hardened and shall be exchangeable and regrindable.

**The combitool shall have following specifications:**

**Hydraulic Combi Cutter with pulling adaptor and Pulling Chain.**

Minimum spreading force	04 Tons
Minimum spreading distance	360 mm
Minimum Pulling length	380 mm
Minimum pulling force	04 Ton
Maximum cutting force in the recess	29 Ton
Minimum Cutting opening	229 mm
Round bar cutting capacity	25 mm to 35 mm dia
Maximum Weight	20 Kgs
Tail hoses of 0.5 mtrs, with protection spring (Only for dual hose tools)	
It should have well serrated tips for perfect grip during spreading & squeezing, sharp cutting blades with optimal angle.	
Rotary control/ Push button for operation with spring return to neutral position.	
Built in double check valves with full protection against overload with carrying handle.	
Accessories- Pulling chains, chain adaptors.	

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**  
**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

The design of the tools shall be based on EN 13204 with Type Test Certificate

**(iv) Hydraulic Telescopic Ram.**

The ram cylinder shall be double acting hydraulically operated device of light weight construction suitable for manual application with ease operation. The details and design features of the ram and its controls and material used for construction of its major components such as pistons, cylinders and other components shall be given in the offer.

The telescopic ram shall be capable of lifting and spreading operation.

In the tool with two hose system the tool shall be supplied with connection hoses of 0.5 meter long complete with coupling, dust cap and protection springs over total length. The female coupler should be of automatic self-locking system type. In the case of one hose system, a male connector shall be fitted to the tool to connect the hose.

The telescopic ram shall have following specifications

**Hydraulic Telescopic Ram.**

The spreading force of first plunger	20 Ton
The spreading force of 2 <sup>nd</sup> plunger	08 Ton
Maximum Retracted length	600 mm
Minimum extended length including cross head	1250 mm
Minimum Stroke of 1 <sup>st</sup> plunger	340 mm
Minimum Stroke of 2 <sup>nd</sup> plunger	320 mm
Weight not more than	25 Kgs
Tail hoses of 0.5 mtrs, with protection spring (Only for dual hose tools)	
Rotary control/ Push button for operation with spring return to neutral position.	
Built in double check valves with full protection against overload.	
The design of the tools shall be based on EN 13204 with Type Test Certificate	

**(v) Power Pack.**

The power pack shall be petrol driven coupled to a reputed petrol engine of single cylinder, 4 strokes, developing minimum 3 HP. The power pack shall be suitable to operate two tools simultaneously. Fuel tank capacity minimum 2.5 ltrs. Hydraulic pump- 2 or 3 stages radial/ axial pump. The power pack shall have suitable pressure and quick connect couplings. In the Power Pack 2 hoses of minimum 5 Mtrs length each shall be supplied with coupling, dust cap and protection spring over total length connect the Power Pack to the tools for operating 2 tools at a time.

Minimum run time - continuous - 2 Hrs.

The weight shall not more than 30 Kg

Operational temperature range - 20<sup>o</sup>C to + 55<sup>o</sup>C

The design of the tools shall be based on EN-13204 with type test certificate

Tools shall be reputed make

Operational and maintenance manual shall be given with the required accessories.

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**2. DELIVERY HOSE FITTED WITH COUPLING: -**

**A). DELIVERY HOSE (TYPE-B): -**

- The Non-percolating flexible fire fighting delivery hose shall be of three layered synthetic Jacketed having elastomeric outer covering which shall be capable to act as resistant for liquids, chemicals and heat.
- Its inner dia shall be 63 mm. Its burst pressure 42 Kg/Cm<sup>2</sup>, Hydrostatic proof pressures 25 kg/Cm<sup>2</sup>, working pressure 18Kg/ Cm<sup>2</sup>.
- The total length shall be of 30 mtrs.
- The delivery hose shall be confirming to IS 636-1988 TYPE-B.
- The hose should be flexible, light and it shall not require any drying after every use and can be coiled and stored immediately.
- The inner side of the hose should have a smooth surface to avoid friction loss.
- The synthetic rubber used in the hose shall not be susceptible for rotting by fungus. The colour should be yellow/ red.

**B). DELIVERY HOSE COUPLING: -**

- Delivery Hose coupling of instantaneous type made of Die-Cast stainless steel and the coupling shall consist of a Male half coupling and Female half coupling assembled with washer bearing I.S: 903-1993. Latest revision (with amdt.-1) reaffirmed 2003.
- First revision mark 63 mm × 63 mm size stainless steel used for casting shall confirm to I.S 3444-1987.
- The coupling shall be subjected to a hydraulic pressure of 2.1 MN/mm<sup>2</sup> (21 Kgf/cm<sup>2</sup>) for a period of 2½ minutes.
- The coupling shall not show any sign of leakage or sweating.
- The fittings shall be of good workmanship, finished and free from all burrs and sharp edge.

**3. LIFTING BAG.**

**LOW PRESSURE PNEUMATIC LIFTING BAG.**

**A)** The bags are to be made of multiple layers with aramid construction re-enforcement. Bags to be in square shape. The thickness of the bags should not exceed 28 mm. The set of bags provides lifting options from a minimum of 16 cm for smallest size to more than 50 cm for the highest size as desired.

The bags should have anti-slip dimpled surfaces to provide good grip and high traction between the bag and surface of object to be lifted as well as when stacked on top of each other.

Operating pressure of all bags to be 8.0 bars. Bursting pressure > 32 bars. Testing pressure followed to be 1.5 times the operating pressure (i.e. 12 bars).

Operating temperature -20 to + 50 degrees centigrade for the bags.

## SHORT TENDER CALL NOTICE NO.-6/2020-21.

DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.

### **B) LIFTING BAG SET WITH AIR CYLINDERS**

Airlifting bags should be pneumatics appliance that can be used for verity of lifting purposes in rescue works in the wake of vehicles and railroad accidents, collapsed shelters or road clearance works amongst other situations. They can be slid into spaces below loads where normal jacks cannot be positioned. They can be used over uneven ground surfaces where again normal jacks will be unstable and dangerous. They can be used to relocate, topple, align and enable lifting by cranes or chain lifting systems. Whereas normal jacks concentrate the lifting energy over a small area, airlifting bags provide lifting pressure over a much large area. They should be easy in maintenance effort, durable and light weight.

#### **SCOPE OF SUPPLY**

Each set of high pressure airlift bags is an air-jacking system comprising two bags each in 69 sizes in term of maximum lift capacities, i.e. a total of 12 bags PER SET, with accessories as indicated in para below. The individual sizes indicated below are to be complied with:

MIN. REQ.T.	SIZE	WEIGHT OF BAG (kg)	THICKNESS (mm)	MAX. LIFTING HEIGHT (cm)
09 to 12 tons		<=4.0	<=30	>=18
18 to 21 tons		<=8.0	<=30	>=28
30 to 34 tons		<=12	<=30	>=36
42 to 46 tons		<=16	<=30	>=40
53 to 57 tons		<=20	<=30	>=46
68 to 72 tons		<=25	<=30	>=50

3. Each set will be provided with following accessories to operate up to 6 bags at a time. :-

- 6 inflation hoses 5m & 6 of 10m long- in three different colors (two each) with push look couplers.
- 3 dual control box/unit, 8 bar, deadman type.
- 2 single control units, 8 bar
- 3 pressure reducer for air cylinders 200/300 bars
- 6 shut off valve with safety valve
- 6 compressed air cylinder 300 bar, 6 liters volume.
- 3 connection piece for air cylinders

#### **SPECIFICATIONS**

- The bags are to be made of multiple layers with aramid construction reinforcement. Bags to be in square shape. The thickness of the bag should not exceed 28 mm. the set of bags provides lifting options from a minimum of 16 cm for smallest size to more than 50 cm for the highest size as desired.

## SHORT TENDER CALL NOTICE NO.-6/2020-21.

### DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.

- The bags should have anti-slip dimpled surfaces to provide good grip and high traction between the bag and surface of object to be lifted as well as when stacked on top of each other.
- Operating pressure of all bags to be 8.0 bars. Bursting pressure >32 bars. Testing pressure followed to be 1.5 times the operating pressure (i.e. 12 bars).
- Operating temperature -20 to +50 degree centigrade for the bags.
- Certificates of conformance to international (EN) standards (EN 13731) and Tender Specific Auth Letter from OEM is to be enclosed with offer.

#### 4. DIESEL BARREL (200 LTRS CAPACITY).

The diesel barrel should be constructed with grade-B mild steel having 200 liters nominal capacity with fixed ends with the following type of construction.

- i) The sheet thickness of the barrel must be 1.25 mm for body and it should conforming to IS 1394-1984. The minimum gross capacity of the drum shall be measured with water at ambient temperature of 210 liters.
- ii) **Material**-Body and ends of the barrel shall be made from mild steel sheet conforming to grade 0 of IS 513/1986. The sheet and the blanks may be phosphatized by any of the recognized process.
- iii) **Construction**-The sheet shall be blanked and formed to shape. The blanks shall be free from cracks, dents, pitting, rust and other defects. The body shall be continuously resistance welded so as to provide air-tight joint. The top and bottom ends shall be double seamed to the body. The seam shall have rolled 7-layers of sheet with the seaming compound forming a core at the joint of body and end sheets. The seaming compound forming the core shall be flexible and chemically resistant to the product to be packed. Drums shall be provided with two rolling beads or hoops, expanded or rolled in the drum body.

#### 5. CONCRETE CUTTER.

##### Requirement:

- Ring type concrete cutter attached with 16 inch dia diamond blade for optimum depth cutting of concrete/RCC as per the following specification:

##### Engine:

Air Cooled 2 stroke petrol Engine, Pull cord Start with Choke arrangement. The engine should fuel efficient, integrated with advanced carburetor to reduce emissions in comparison to power.

- Engine Displacement: 81 cc or above.
- Power developed at rated rpm: 4.0 Kw. or more.
- Minimum rated RPM: 8500 or more.
- Fuel tank capacity: 1 (one) ltr. (Min.)

**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

- Dry weight of power cutter with blade: 15 Kg (max.)

**Cutting Equipment:**

Type: Ring type cutting blade

1. It should be capable of running 16" (406 mm) dia. ring type diamond blade for concrete cutting.
2. Minimum depth of cutting should be 140 mm.
3. Blade Guard should be having the wheels on it for smooth operations.
4. Rollers should be adjustable for ensuring the proper installation of ring in the machine.
5. A suitable arrangement should be provided with the equipment to spray water along with a flow control valve to adjust the pressure of water on the Cutting Ring for heat dissemination and to reduce frequent clogging.
6. Equivalent Noise level shall not be more than 120dB (A). Equivalent vibration level at front and rear handle should not be more than 6.0 m/s<sup>2</sup>.
7. Quality test certificate in accordance to ISO/EC or any National/international standard confirming to specification must be attached with the bid.

**Safety Kit:**

- Hand Gloves, Hearing Protector, Nose Muff and Eye Protector.

**Accessories to be supplied with machine:**

1. Three nos. Ring type blade compatible with the above machine (406 mm dia.)
2. 5 Ltr. fuel Container.
3. 5 Nos. of spare air filter.
4. 1 No. Water tank with 15 ltr (min.) Capacity.

**Authorization**

Certificate- Authorization from OEM	Required to be attached in case of authorized agent
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**Note**

Before placing Supply Order the firm should able to demonstrate the equipment/ item before the Committee/ buyer within the scheduled date for technical evaluation of the products.	Required
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**6. RESCUE LINE (½" DIA, 30 MTRS LENGTH EACH).**

Rescue line ½" dia karnamental 30 meters long, 12 mm braided having breaking strength 2450KN. It should be of reputed make of all India Standard and suitable for use for rescue operation.

**7. ALARM BELL WITH PENDULUM.**

Alarm bell made of special copper alloy metal, consisting of suspension hook and chromium plated striker. It shall be min. 10" (250mm) dia and the weight shall be 10kg (± 1kg). The metal used for the bell shall confirming to BIS 306-1968. Percentage of alloy shall be 20 to 22 tin and 78 to 80% copper. The casting shall be sound and free from sharp edges, pits, blow holes and scales and other imperfection. The bell should give good sound confirming to BIS 928-1984.

**SHORT TENDER CALL NOTICE NO.-6/2020-21.**

**DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

**8. ALUMINUM EXTENSION LADDER: -**

Aluminum Extension Ladder consist of one main and one extending section. The design shall be such as to ensure easy sliding of the extending section without excessive clearance in the guide and over extension of the ladder. The extending section shall be guided through range of extension in such a manner that the section cannot separate from the main section. It should be made out of Aluminum alloy. The main strings should be 'C' Channel of 67 mm × 33 mm × 3 mm thick HE 30 Grade as per IS 733 of 1983 & rounds should be of 1" dia non slip corrugated fluted tubing double crimped from inside as well as outside to the main strings duly fitted at 12" centre to centre with pulley and rope for smooth extension. Rubber caps to be fitted at top and bottom of the ladder. The closed length of the ladder should be 6 Mtrs (20 ft) and extended length must be 10.5 Mtrs (35 ft). Material Test certificate and Guarantee Certificate to be provided by the manufacturer. The ladder shall be of reputed one and strong enough to work at fire ground.

**9. RESCUE LINE (1" DIA, 30 MTRS LENGTH EACH): -**

Rescue line of 30 mtrs long, 1" or 24mm diameter 3"circumference of 3 strand Polyamide Multi-Filament Rope conforming to IS-4572-1992. The finished rope shall be flexible, well laid and free from defects in yarn, strand and finish which can be used suitably during rescue operation. The bidders must have to furnish manufacturer's certificate.

**10. RESCUE LINE (2" DIA, 30 MTRS LENGTH EACH): -**

Rescue line of 30 mtrs long, 2" or 48 mm diameter of 3 strand Polyamide Multi-Filament Rope conforming to IS-4572-1992. The finished rope shall be flexible, well laid and free from defects in yarn, strand and finish which can be used suitably during rescue operation. The bidders must have to furnish manufacturer's certificate.

**11. POLYURETHANE JARCANE (35 LTRS CAPACITY): -**

35 ltrs heavy duty PVC container for storage of liquid substance. A handle should be provided for safe carriage. It must be a new one and not used for any other purpose prior to supply.

**12. BATTERY CHARGER: -**

- Good quality battery charger is required to charge different size of batteries used in the appliances of Odisha Fire Service.

- The charger shall be portable and easy to carry with following specification.

INPUT - 210V-230V A.C supply

OUTPUT - 6V-36 Volt DC

CAPACITY - 30 AMP make in all step

CONTROL Voltage Selector Switch-6 step (6 Volt, 12 Volt, 18 Volt, 24 Volt, 30 Volt and 36 Volt DC)

PROTECTION - IN INPUT SIDE -HRC fuse -20 Amp. DC



**SHORT TENDER CALL NOTICE NO.-6/2020-21.  
DIRECTORATE GENERAL F.S., H.Gs & C.D., ODISHA, CUTTACK.**

INSTRUMENT	OUTPUT SIDE	OUTPUT SIDE-HRC fuse-10 Amp. DC - Moving Coil Ammeter 0.50 AMP (for D.C) - Provision of Voltmeter to indicate the exact output of DC Voltage range 0.100 V D.C. Provision of voltage selector switch and current selector switch, 3 way, 50 AMP range.
CABLE:-	INPUT SIDE	- 1.5 mtrs insulated copper wire with 3 pin Top, 15 AMP
	OUTPUT SIDE	- 15 mtrs insulated copper wire of 4 mm sqr. fitted with insulated clamp.
	DIOD	- Diod should be 70 AMP range.

**13. GENERATOR: -**

**Technical Specification.**

- |        |                                    |  |
|--------|------------------------------------|--|
| i).    | Max Power Output                   | : - 7000 VA  |
| ii).   | Rated Power Output at 230 v/ 50 Hz | : - 5500 VA 1uthori  |
| iii).  | Engine Type                        | : - 4 Stroke, Single Cylinder, Air Cooled  |
| iv).   | Engine Throttle                    | : - Electronic Governor (Load Sensitive)   |
| v).    | Inverter Technology                | : - Pure Sine Wave Output  |
| vi).   | Engine Control Panel Display       | : - Monitor Equipped display Engine RPM, Generator Load (in VA), No. of Hours Run (Cumulative) Battery Voltage |
| vii).  | Starting                           | : - Electric/ Recoil Start   |
| viii). | Fuel Type                          | : - Unleaded Petrol  |
| ix).   | Fuel System                        | : - Electronically Controlled Dual Injection system  |
| x).    | Fuel Tank Capacity (Ltr.)          | : - 19 to 20 Ltrs  |
| xi).   | Continuous Operating Hours         | : - 12 at 50% Load 2uthori. / 6.5 at rated load 2uthori.   |
| xii).  | Oil Alert System                   | : - Yes  |
| xiii). | Dry Weight (Kg)                    | : - 123.2 Kg with battery 2uthori  |
| xiv).  | Dimensions (L×W×H mm)              | : - 1261 × 680 × 722 approx.   |
| xv).   | Air Cleaner                        | : - Dual   |
| xvi).  | Exhaust                            | : - Large Capacity Muffler with 3-way catalyzer  |
| xvii). | Warranty                           | : - 1 Year from date of supply.  |

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