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ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Govt. of Odisha undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR-751022,

OFFICE OF THE GENERAL MANAGER (Elect)

EHT (O&M) CIRCLE, BHUBANESWAR

AT-Grid Sub-Station, Chandaka, PO-KIIT

Bhubaneswar-751024

E-mail - ehtm.cle.bbs@optcl.co.in

E-TENDER SPECIFICATION NO:- EHTM/GM/05/BBS/2022-23

PART-I

SECTION-I-	INSTRUCTION TO BIDDERS
SECTION-II-	GENERAL TERMS & CONDITIONS OF CONTRACT
SECTION-III-	LIST OF ANNEXURE
SECTION-IV-	DATASHEETS

PART-II

PRICE BID & COMMERCIAL BIDS (EXCEL SHEET FORMAT)

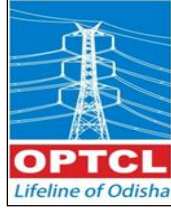
Request for online tender documents:	From Dt. 10.01.2023 (03:30 Hrs)
	To Dt. 31.01.2023 (16:00 Hrs)
Issue of online tender documents (bid sheets):	From Dt. 10.01.2023 (03:31 Hrs)
	To Dt. 31.01.2023 (16:01 Hrs)
Last date of submission of online tender:	Up to Dt. 31.01.2023 (17:00 Hrs)
Date of opening of Tender	on Dt. 01.02.2023 (11:30 Hrs)

TELEPHONES / CONTACTS

1. General Manager: 9438907492
2. TA to General Manager: 9438904414

NOTE: -

1. In case the due date for opening of tender happens to be a holiday, then tenders would be received & opened on the next working day at the same time.
2. Please note that the tenders against this tender enquiry are being invited **through e-tendering mode**. In case of any clarification the prospective bidders may contact this office as mentioned above.
3. **The prospective bidders are requested to get their digital signatures (Class-3) well in time** for participation in the tender and no request for extension on this account will be entertained.
4. **Manual tenders in any form/case will not be accepted.**



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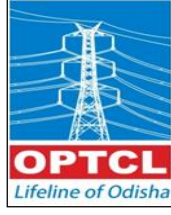
E-mail - ehtm.cle.bbs@optcl.co.in

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, General Manager, EHT (O&M) Circle, Bhubaneswar invites Tenders from reputed bidders fulfilling the eligibility criteria and must possess valid IT PAN card and GST registration certificate for the work of **“SUPPLY OF DIFFERENT TYPES OF FIRE EXTINGUISHER AT DIFFERENT GSS/GIS UNDER EHT (O&M) DIVISION BHUBANESWAR”**. The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL. Complete set of bidding documents shall be available at www.tenderwizard.com/OPTCL from **10.01.2023 (03:31 Hrs) up to 31.01.2023 (16:01 Hrs)**. Interested bidders may visit OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL for detail specification.

N.B:- All subsequent addendums/corrigendum to the tender shall be hosted in the OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL **only**.

GENERAL MANAGER

EHT (O&M) CIRCLE, BHUBANESWAR



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OFFICE OF THE GENERAL MANAGER (Elect)

EHT (O&M) CIRCLE, BHUBANESWAR

AT-Grid Sub-Station, Chandaka, PO-KIIT

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E-mail - ehtm.cle.bbs@optcl.co.in

E-TENDER NOTICE NO: 05/BBS/2023

NOTICE INVITING TENDER

For and on behalf of the ODISHA POWER TRANSMISSION CORPORATION LTD., the undersigned invites bids from the eligible bidders under **two-part bidding** system in **e-tendering mode** only as per the following details.

Tender Specification No: EHTM/CLE/GM/05/BBS/2022-23

Request for online tender documents:

From Dt. 10.01.2023 (03:30 Hrs)

To Dt. 31.01.2023 (16:00 Hrs)

Issue of online tender documents (bid sheets):

From Dt. 10.01.2023 (03:31 Hrs)

To Dt. 31.01.2023 (16:01 Hrs)

Last date of submission of online tender:

Up to Dt. 31.01.2023 (17.00 Hrs)

Date of opening of Tender

on Dt. 01.02.2023 (11:30 Hrs)

Cost of Tender Spec Document:

Rs. 6,000/- + Rs.1080/- (GST@18%)= Rs. 7080/-

Earnest Money Deposit:

Rs. 20,000/-

Tender Processing Fee:

Rs. 1,953/- + Rs. 352/- (GST @ 18%) = Rs. 2,305/-

(Rupees Two Thousand Three hundred Five only)

ESTIMATED AMOUNT: 19,52,900/- (INCLUSIVE OF GST@18%)

The bidders can view the tender documents from website free of cost.

ELIGIBILITY FOR SUBMISSION OF BIDS:-

Bidders should not have any legal suit against OPTCL / GRIDCO Ltd / SLDC are only eligible for submission of Bids. Firms banned / blacklisted for business dealings by any organization are not eligible to participate in the tender. Participation in the tender by suppression of the above facts shall invite penal action, whenever detected.

The bidders must have in possession of following qualifications for participation in tender:-

- 1. Manufacturer/Authorized dealer/Supplier.**
- 2. Past experience towards supply of above materials.**
- 3. GST Registration Certificate.**
- 4. Permanent Account Number (PAN) issued by Income Tax Department.**

The bidders can view the tender documents from website free of cost. The bidders who want to participate in the tender shall have to pay **Rs. 7080/- (Rupees Seven Thousand Eighty only) non-refundable including GST @ 18%** towards the cost of tender document, **in the form of Demand draft** only, drawn in favour of **EHT (O&M) Circle, OPTCL, Bhubaneswar, Payable at Bhubaneswar** and the same is to be submitted to the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall have to submit a non-refundable amount of Rs. 2,305/- (Rupees Two Thousand Three hundred Five only) towards the tender processing fee through e-payment gate way.

(NOTE: For deposit of tender processing fee to K.S.E.D.C. Ltd. Bangalore, the bidder can use various modes of e-payment facility available through Tender wizard Portal, i.e. by Credit Card, Debit Card, Net Banking)

The payment acknowledgement slip submitted along with the **BID SECURITY DECLARATION FORM DULY FILLED AND SIGNED** & tender cost at the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall scan the Demand Draft towards Tender paper Cost and acknowledgement slip for tender processing fee and upload the same in the prescribed form in **.gif** or **.jpg** format in addition to sending the original as stated above.

The prospective bidders are advised to register their user ID, Password, company ID from website www.tenderwizard.com/OPTCL by clicking on hyper link "Register Me".

Any clarifications regarding the scope of work and technical features of the tender can be had from the undersigned during office hours.

GENERAL MANAGER
EHT (O&M) CIRCLE, BHUBANESWAR

PART-I

SECTION-I

INSTRUCTIONS TO TENDERER

1. Submission of Bids: -

The bidder shall submit the bid in Electronic Mode only i.e. **www.tenderwizard.com/OPTCL**. The bidder must ensure that the bids are received in the specified website of the OPTCL by the date and time indicated in the Tender notice. Bids submitted by telex/telegram will not be accepted. No request to collect the Bids in physical form will be entertained by the OPTCL.

OPTCL reserves the right to reject any bid, which is not submitted according to the instruction, stipulated above. The participants to the tender should be registered under GST act and other as applicable.

1. For all the users it is mandatory to avail the Class 3 Digital Signatures.

2. Manufacturers/ Dealers/ Bidders / Suppliers are requested to follow the below mentioned steps for Registration:

- a. Click “Register”, fill the online registration form.
- b. Pay the amount of **Rs. 2,305/- through E-payment gateway.**
- c. This registration is valid for one year.
- d. Send the acknowledgment copy for verification.
- e. As soon as the verification is being done the e-tender user id will be enabled.

3. After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs.

4. If any Bidder wants to participate in the tender he will have to follow the instructions given below:

- a. Insert the PKI (which consist of your Digital Signature Certificate – Class 3) in your System.
(Note: Make sure that necessary software of PKI is installed in your system).
- b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
- c. Go to Start > Programs > Internet Explorer.
- d. Type **www.tenderwizard.com/OPTCL** in the address bar, to access the Login Screen.
- e. Enter e-tender User Id and Password, click on “Go”.
- f. Click on “Click here to login” for selecting the Digital Signature Certificate.
 - Select the Certificate and enter DSC Password.
 - Re-enter the e-Procurement User Id Password

5. To make a request for Tender Document, Bidders will have to follow below mentioned steps.

- a) Click “Un Applied” to view / apply for new tenders.
- b) Click on Request icon for online request.
- c) Enter the required fields including details of DD for tender Processing fee.

6. After making the request Bidders will receive the Bid Documents which can be checked and downloaded by following the steps mentioned below:
 - a) Click to view the tender documents which are received by the user.
 - b) Tender document screen appears.
 - c) Click “Click here to download” to download the documents.
7. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
 - a) Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
 - b) Note down / take a print of bid control number once it displayed on the screen
8. Tender Opening event can be viewed online.
9. Competitors bid sheets are available in the website for all.
10. **For any e-tendering assistant contact help desk number mentioned below.**
 - **Bangalore – 080- 40482000.**
 - **Mr. Satamanyu – mob: 09937140591**

2. DIVISION OF SPECIFICATION.

The specification is mainly divided into two parts viz. Part-I & Part-II.

Part-I Consists of

SECTION-I-	INSTRUCTION TO BIDDERS
SECTION-II-	GENERAL CONDITIONS OF CONTRACT
SECTION-III-	LIST OF ANNEXURE
SECTION-IV-	DATASHEETS.

Part-II Consists of

COMMERCIAL BID and PRICE SCHEDULE (excel sheet)

The Bidders are required to submit the tenders in two-part bid.

3. Purchaser’s Right Regarding Alteration of Quantities Tendered.

The Purchaser may alter the quantities of work at the time of placing orders. Initially the purchaser may place orders for lesser quantity with full freedom to place extension orders for further quantity

under similar terms and conditions of the original orders. **Orders may also be split among more than one bidder for any particular item or division wise for the work, if considered necessary in the interest of the OPTCL.**

4. Purchaser's right to accept/reject bids:

The purchaser reserves the right to reject any or all the tenders without assigning any reasons what so ever if it is in the interest of OPTCL, under the existing circumstances.

5. Mode of submission of Tenders.

[A] Tenders shall be submitted in electronic mode only. (www.tenderwizard.com/ OPTCL)

[B] **E-mail tenders** shall not be accepted under any circumstances.

6. Validity of the Bids: -

The bidders are requested to keep the validity of their offer for a period of **180** days from the date of opening of the tender, failing which the tenders will be rejected.

7. PRICE: -

The prices are firm F.O.R destination inclusive of freight, Insurance, Packing, Forwarding charges including of all the duties & taxes.

8. Earnest money deposit:

The Tenders shall be accompanied by Earnest Money deposit of value specified in the notice inviting tenders. Tenders without the required EMD will be rejected out rightly.

The earnest money deposit shall be furnished in shape of **Bank Draft** to be drawn in favour of **EHT (O&M) Circle, OPTCL, and Bhubaneswar (Payable at Bhubaneswar)**

NOTE:-

- i) No adjustment towards EMD shall be permitted against any outstanding amount with the **ODISHA POWER TRANSMISSION CORPORATION LTD.**
- ii) In the case of un- successful tenderer, the EMD will be refunded after finalization of the tender.
In the case of successful Tenderer, this will be refunded on written request only after award of contract & on submission of security deposit in the form of BG/DD.
- iii) Suits, if any, arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of ODISHA extends.
- iv) EMD will be forfeited if the tenderer fails to accept the purchase order and/or work order issued in his favour or to execute the order, placed on them.
- v) Tenders not accompanied by Earnest Money shall be disqualified.
- vi) **In case of NSIC/MSME certificate holders 50% of EMD deposit shall be applicable and there is no discount in the cost of tender document.**
- vii) **EMD not claimed within one year of placement of order shall be forfeited.**

9. Bidders to be fully conversant with the clauses of the Specification:

Bidders are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tenders. In case of doubt regarding the meaning of any clause, the bidder may seek clarification in writing from the GM (Elect.), EHT (O&M) Circle, Bhubaneswar, This, however, does not entitle the bidder to ask for time beyond due date, fixed for receipt of tender.

10. e-Reverse Auction process shall be resorted to in the tender as follows:

A) STRATEGY FOR E-REVERSE AUCTION

- (i) Bidders are required to go through the guide lines given below and submit their acceptance to the same.
- (ii) e-Reverse Auction (RA) will be conducted in e-tender portal of OPTCL on specified date and time, while bidders shall quote from their own offices/places of their choice. Internet connectivity shall be ensured by the respective agencies/bidders themselves.
- (iii) Demonstration/ training (if not trained earlier) of bidder's nominated person(s), shall be done by KEONICS to explain all the rules related to e-Reverse Auction/ Business Rule document to be adopted.

B) Procedure for electronic Reverse Auctioning (e-RA)

- (i) The e-RA shall be conducted on www.tenderwizard.com/OPTCL only.
- (ii) Bidder has to submit letter towards agreement to the Process related Terms & Conditions for e-Reverse Auction, as per (Reverse Auction Process Compliance Form at **Annexure-IVA**). In non-receipt of the same, vendors will not be allowed to participate in e-RA.
- (iii) e-RA shall be carried out after opening of Price bids and completion of Price bid evaluation, which will be intimated only to the techno-commercially qualified bidders by OPTCL as per procedure given below.

Prior intimation/ Notice for RA invitation will be given to techno-commercially qualified bidders regarding the date & time of opening of the e-RA.

The start bid price (SBP) for e-Reverse Auction of each bidder under a particular package shall be the L1 evaluated price for the subject package including Taxes & Duties for the total scope for subject Package. Taking the above discovered L1 price as the upper limit e-RA will be conducted to determine the lowest possible price.

Reverse Auction will be conducted amongst first 50% of the technically qualified bidders arranged in order of prices from lowest to highest, as L1, L2, L3-----Ln, and L1 price will be discovered. Minimum of 3 bidders shall be eligible for e RA. (eg. If 4 bidders are financially evaluated then the L1, L2 and L3 bidders shall be eligible for e-RA). Number

of bidders eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L1 to L4).

However, in case only two bidders are found to be responsive, e-RA would be carried out with both the parties without any elimination. However, OPTCL reserves the right to invite the evaluated L1 bidder for negotiation without conducting the e-RA.

In case of price submitted by any bidder is found to be abnormal, OPTCL reserves the right to reject the bid of the bidder(s).

Rank of bidders would be displayed as per the total cost to OPTCL, i.e. including Taxes and Duties payable by OPTCL as per the provisions of the bidding document & after e-RA process is over.

- iv) OPTCL reserves the right to conduct e-RA and it is obligatory on part of bidder(s) invited to participate in e-RA process once they have responded to the techno-commercial bid.
- v) Names of bidders/ vendors shall not be disclosed during the e-RA process. Names of bidders/ vendors shall be anonymously masked in the e-RA process.
- In case of RA, start/ reference price and step value of decrement shall be indicated to the bidders at the start of the auction. Any participating bidder can bid one or multiple step decrement lower than the prevailing lowest bid at that time. The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid value, last Bid Placed by him and time left for bidding.
- The step value of decrement in a package to be offered by bidder (the minimum amount of reduction in the total bid price including all taxes & duties during auction), shall be kept at 0.15% of L1 bidder's final evaluated price (or) at approved amount as decided by OPTCL.
- Bidders can only quote any value lower than their previous quoted price. However, at no stage, increase in Price will be permissible.
- At any point during Reverse Auction, bidding price field shall remain enabled for the bidders. The total reverse auction period shall be unlimited and the initial auction period (1st slot) will be of thirty (30) minutes with provision of auto extension by ten (10) minutes from the schedule/extended closing time. If any fresh lower bid is received in last ten minutes of auction period or extended auction period, the auction shall get extended automatically for another 10 minutes. In case there is no Bid received during schedule /extended slot, the Auction shall get closed automatically without further extension.

- However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the period of e-reverse auction to avoid complication related with internet connectivity, network problem, system crash down, power failure etc.

vi) After conclusion of e-Reverse Auction i.e (Closing Price in Reverse Auction will be taken as offered price by the L1 bidder), decrease in price of individual head of the template shall be considered proportionately on all individual line items of the respective head of the price schedule of the successful L1 bidder.

Any bid received at the tender wizard server end subsequent to closure of the e-RA shall be summarily rejected and shall not be considered as a valid bid under whatsoever circumstances. For this purpose, tender wizard server log shall prevail.

The bidder shall not involve himself or any of his representatives in price manipulation of any kind directly or indirectly by communicating with other bidders.

During Reverse Auction, If no bid is received within the specified time, OPTCL, at its discretion, may decide to close the reverse auction process/ proceed with conventional mode of tendering [Evaluation of Part-II (price bid) submitted by bidders earlier].

vii) Consequent upon completion of e-Reverse Auction, OPTCL's decision on award of contract shall be final and binding on the bidders.

OPTCL shall be at liberty to call the L1 bidder for further process/ negotiation and also at liberty to cancel the e-reverse auction process/ re-tender at any time, without assigning any reason thereof. OPTCL can decide to reschedule or cancel any reverse auction: the bidders shall be informed accordingly.

OPTCL/ Service Provider shall not have any liability to bidders for any interruption or delay in access to the e-Tender site/ Reverse Auction link irrespective of the cause.

11. Documents to Accompany Bids.

Bidders are required to submit tenders in the following manner:

- i) Declaration Form as per **Annexure-I** (duly signed) to be uploaded in .pdf format.
- ii) Earnest Money (scanned copy is to be uploaded).
- iii) Abstract of Terms & conditions in prescribed proforma as per **Annexure-II**. To be entered in the bid sheets provided.
- iv) General Terms & Conditions of contract as per Section-II of the Specification. (All the required documents are to be uploaded.)
- v) Data on past experience if any **as per** the Specification.(Scanned copy to be uploaded)
- vi) GST Registration certificate & permanent account number [PAN] of the firm is required under Income tax Act. (Scanned copy to be uploaded).
- vii) Proof of manufacturer / supplier having dealership certificate / authorized dealer (Scanned copy to be uploaded).

viii) Photocopy of type test certificates of materials as stipulated in the Technical Specification.

ix) Any other document required, is to be uploaded.

12. Conditional Offer:

Conditional offer shall not be accepted.

SECTION-I

INSTRUCTION TO BIDDERS

- i) The Bidder must get him registered in tender portal by paying an amount of **Rs. 2360/- through e-payment mode only**. This registration is valid for two years.
- ii) The tender paper cost (Form fee non-refundable) for an amount of **Rs. 7,080/- is to be paid in shape of DD.**

- iii) The tender processing fee for an amount of **Rs. 2,305/-** (*Non-refundable*) is to be paid in e-payment mode only.
- iv) In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the bidder.
- v) Notice inviting tender shall form part of this specification.
- vi) It should be distinctly understood that the price bid shall contain only details/documents relating to price, as mentioned herein above.
- vii) **The Bidder must submit the cost of tender document and EMD in shape of DD in a sealed cover envelope super scribing the Tender Notice No. & Date of opening of tender clearly on the envelope cover. The said envelope is to be submitted in the office of the purchaser/Tenderer on or before the last date and time of submission of tender.**
- viii) The Bidder must observe all the safety rules while working in EHV environment.

SECTION-II

GENERAL TERMS AND CONDITIONS OF CONTRACT [G.T.C.C.]

1. Scope of the contract:

This specification covers “**Supply of Different Types of Fire Extinguisher at Different GSS/GIS under EHT (O&M) Division Bhubaneswar**” as per technical requirement mentioned in Section – IV of the tender specification. The scope of contract shall be to deliver the material

on Rail/Road transport at destinations of OPTCL site store as specified in the schedule of quantity.

2. Definition of terms:

For the purpose of this specification and General Terms and Conditions of contract [GTCC], the following words shall have the meanings hereby indicated, except where otherwise described or defined.

- 2.1 “The Purchaser” shall mean the General Manager (Elect.), EHT (O&M) Circle, Bhubaneswar for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.
- 2.2 “The Engineer” shall mean the Engineer appointed by the Purchaser for the purpose of this contract.
- 2.3 “Purchaser’s Representative” shall mean any person or persons or consulting firm appointed and remunerated by the Purchaser to supervise, inspect, test and examine workmanship and materials of the equipment to be supplied.
- 2.4 “The supplier” shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidder’s executives, administrators, successors and permitted assignees.
- 2.5 “Equipment” shall mean and include all machinery, apparatus, materials, and articles to be provided under the contract by the suppliers.
- 2.6 “Contract Price” shall mean the sum named in or calculated the bid.
- 2.7 “General Condition” shall mean these General Terms and Conditions of Contract.
- 2.8 “The Specification” shall mean both the technical as well as commercial parts of the specification annexed to or issued with GTCC and shall include the **schedules** and drawings, attached thereto as well as all samples and pattern, if any.
- 2.9 “Month” shall mean “Calendar month”.
- 2.10 “Writing” shall include any manuscript, type written, printed or other statement reproduction in any visible form and whether under seal or under hand.
- 2.11 “FOR Destination costs” shall mean the cost of equipment and material at the consignee’s store/site. The cost is inclusive of all taxes, packing, forwarding and insurance and freight charges.
- 2.12 The term “Contract document” shall mean and include GTCC, specifications, schedules, drawings, form of tender, Notice Inviting Tender, covering letter, schedule of prices or the final General Conditions, any special conditions, applicable to the particular contract.
- 2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the ODISHA General Clauses Act.

3. Technical qualification:

The documents of all bidders shall be scrutinized by the CLPC committee to be constituted by the purchaser. The bidders, who qualify the technical round, shall be considered for open of Price Bid. *In no case, the bidders shall be allowed for submission of document after opening of technical bid.*

4. Rejection of Materials.

In the event any of the equipment's /material supplied by the manufacturer is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in conformity with the requirements of the Specification, the Purchaser shall either reject the equipment /material or ask the supplier in writing to rectify or replace the defective equipment /material free of cost to the purchaser. The Supplier on receipt of such notification shall either rectify or replace the defective equipment /material free of cost to the purchaser within 15 days from the date of issue of such notification by the purchaser.

5. Language and measures:

All documents pertaining to the contract including specifications, schedule, notices, correspondence, operating and maintenance instructions, drawings or any other writing shall be written in English language. The metric system of measurement shall be used exclusively in this contract.

6. Right to reject /accept any tender:

The purchaser reserves the right either to reject or to accept any or all tenders if the situation so warrants in the interest of the purchaser. Orders may also be split up between different Bidders on individual merits of the Bidder. The purchaser has exclusive right to alter the quantities of materials/ equipment at the time of placing final purchase order. After placing of the order, the purchaser may defer the delivery schedule of the materials. It may be clearly understood by the Bidder that the purchaser need not assign any reason for any of the above action[s].

7. Delivery:-

The materials in full quantity and shape delivered within **60 (Sixty) days** of placing purchase order at destination, failing which purchase order shall be liable for cancellation with forfeiture of EMD / Security Deposit.

8. Despatch instructions.

- a) The materials should be securely packed and dispatched directly to the specified site at the supplier's risk by Road Transport only after getting dispatch clearance/purchase order from the purchaser.

b) Loading & unloading of Ordered Materials.

It will be the sole responsibility of the supplier for loading and unloading of materials both at the factory site and at the destination site/store. The Purchaser shall have no responsibility on this account.

9. Supplier's Default Liability.

- (I) The Purchaser may, upon written notice of default to the supplier, terminate the contract in circumstances detailed hereunder.
- a) If in the judgment of the Purchaser, the supplier fails to make delivery of equipment/material within the time specified in the contract or within the period for which if extension has been granted by the Purchaser in writing in response to written request of the supplier.
 - b) If in the judgment of the Purchaser, the supplier fails to comply with any of the provisions of this contract.
- (II) In the event, Purchaser terminates the contract in whole or in part the Purchaser reserves the right to purchase upon such terms and in such a manner as he may deem appropriate in relation to the equipment/material similar to that terminated and the supplier will be liable to the Purchaser for any additional costs for such similar equipment/material and/or for penalty for delay as defined in **Clause-21** of this section until such reasonable time as may be required for the final supply of equipment.
- (III) In the event the Purchaser does not terminate the contract supplier shall be liable to the Purchaser for penalty for delay as set out in **Clause-21** of this section until the equipment is accepted. This shall be based only on written request of the supplier and written willingness of the Purchaser.

10. Force Majeure:

The supplier shall not be liable for any penalty for delay or for failure to perform the contract for reasons of force majeure such as acts of god, acts of the public enemy, acts of Govt., Fires, floods, epidemics, Quarantine restrictions, strikes, Freight Embargo and provided that the supplier shall within Ten (10) days from the beginning of delay on such account notify the purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant such extension, if facts justify.

11. Extension of time:-

If the delivery of equipment/material is delayed due to reasons beyond the control of the supplier, the supplier shall without delay give notice to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice may or may not agree to extend the contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.

12. Guarantee period: -

The Material should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of at least **30 (Thirty)** months from the date of supply last date of delivery or **24 (Twenty-Four)** months from the date of commissioning. The above guarantee certificate shall be furnished in triplicate to the purchaser for his approval. Any defect noticed during this period should be rectified/replaced by the supplier free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used, within one month upon written notice from the purchaser failing which provision of clause 23 (ii) shall apply.

13. GSTIN CERTIFICATION, PAN CARD & MANUFACTURER / AUTHORIZED DEALERSHIP CERTIFICATE :

Attested legible photocopies of Income Tax PAN Card, GSTIN Certificate & manufacturer/authorized dealership certificates valid on the date of opening of the tender should be submitted along with tenders without which tender will be rejected at the time of opening. If required, the tenders shall have to produce original documents for verification any time after the

opening of tender. Those who fail to produce the same and found not to be valid on the date of opening of the tender, their tenders will be rejected.

14. TEST CERTIFICATE:

Necessary test certificate of the product to be submitted to this after completion of inspection to this office to take necessary action at this end.

15. SUBMISSION OF PROOF REGARDING MANUFACTURER'S CERTIFICATE/ AUTHORISED DEALERSHIP CERTIFICATE, PRICE LIST OF THE MANUFACTURER, PAST EXPERIENCE OF EXECUTION OF ORDER PERFORMANCE CERTIFICATE, TECHNICAL LITERATURE AND DRAWING, TYPE TEST CERTIFICATE:

Attested legible Xerox copies of necessary Manufacturer's certificate, valid authorized dealer certificate, Manufacturer's Price list and technical literature etc. should be furnished along with the tender. If required, the firms may be requested to produce such original certificates for verification. Past experience, if any, of execution of Purchase Orders need to be furnished by the bidders. The tender shall be accompanied with detail drawing and technical literature, leaflets, manuals if any.

16. FREE REPLACEMENT:

Free replacement of materials lost / damaged during transit shall be made immediately on receipt of the intimation from the consignee /Paying Officer without waiting for settlement of the claim of bidders with Railway/Lorry/Insurance Company etc.

17. STANDARDS:

The equipment's shall strictly comply with relevant IS (Latest edition along with amendments if any) or equivalent standard as regards material, design, manufacture and testing etc.

18. QUANTITY VARIATION:

The quantity to be ordered may undergo revision at the time of placement of orders.

19. SECURITY DEPOSIT:-

- (i) The Contractor is required to deposit an amount of 10% of the annual contract value towards Security Deposit in shape of Bank Guarantee / Fixed Deposit (Pledged in favour of **EHT (O&M) Division, OPTCL, Bhubaneswar**) from any Nationalized Bank drawn in favour of "**EHT (O&M) Division, OPTCL, Bhubaneswar**" payable at **Bhubaneswar** within 15 days on receipt of the letter of intent / order. The Security Deposit will be released after satisfactory execution of order and the amount of Security Deposit will not carry any interest.
- (ii) Whenever any claim against the Contractor for the payment of a sum of money arises out of or under the contract, the OPTCL shall be entitled to recover such sum of appropriating in part or whole from the Security Deposit of the Contractor. In the event of the Security Deposit being insufficient, the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due. The Contractor shall pay to the OPTCL on demand any such balance remaining due.
 - a) In the event of any breach of the terms of the contract by the Contractor or any loss or damage occurred to the OPTCL which in the opinion of the OPTCL has arisen, the decision where of

shall be final and binding on the Contractor or in the event of the termination of the contract or for any such breach, the Security Deposit is liable to be forfeited. The decision of forfeiture shall be final and binding on the Contractor. be provided by the Purchaser at the time of placing the Purchase Order

20. Terms of Payment.

- (i) 100% value of each consignment with 100% including Tax in full as applicable along with freight & Insurance charges will be paid on receipt of materials in good condition at stores/desired site and verification thereof, subject to furnishing and approval of Composite Bank Guarantee at the rate of 10% (Ten percent) of the cost of supplied materials, as stipulated under Clause-19 of this specification & on prior approval of guarantee certificate & Test certificate by the Purchaser. Income tax as applicable shall be deducted from the source.
- (ii) The supplier shall furnish Composite Bank Guarantee of appropriate amount to OPTCL covering 10% of F.O.R. Destination cost of the purchase order well in advance (within 15 days from the date of issue of the purchase order) before dispatch of materials.

21. Penalty for Delay in Completion of Contract

- (A) If the Supplier fails to deliver the materials within the delivery schedule, specified in the contract including delivery time extension, if any, granted thereto, the Purchaser shall recover from the Supplier, penalty for a sum of half percent (0.5 percent) of the Ex-works price of the un-delivered equipment for each calendar week of delay or part thereof. For this purpose, the date of receipt of challan shall be reckoned as the date of delivery. The total amount of penalty shall not exceed five percent (5%) of the ex-works price of the unit or units so delayed. Equipment will be deemed to have been delivered only when all its components and accessories as per technical Specification are also delivered. If certain components & accessories are not delivered in time, the equipment will be considered delayed until such time as the missing parts are delivered.
- (B) If the Supplier fails to replace the material within 30 days from the date of intimation of the defect, so noticed by the purchaser within the guarantee period then the penalty for sum of one half of the one percent (0.5%) of the total Purchase order amount for each calendar week of delay shall be recovered by the purchaser within the guarantee period. For this purpose, penalty date will start from the 30th day from the date of issue of letter on defectiveness of material, so supplied, by the purchaser. The total amount of penalty in this case shall not exceed 10% (TEN PERCENT) of the purchase order amount. The purchase order amount shall mean ex-works price + freight & insurance and all taxes & duties. If the defects so intimated within the guarantee period will not be rectified by the Supplier within the stipulated period then whole of the B.G. will be forfeited by the purchaser, without any intimation to the Supplier.

22. Insurance

The Supplier shall undertake insurance of stores covered by this Specification unless otherwise stated. The responsibility of delivery of the stores at destination in good condition rests with the Supplier. Any claim with the Insurance Company or transport agency arising due to loss or damage in transit has to be settled by the supplier. The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 30 days of receipt of the materials at destination without waiting for the settlement of their claims with the carriers and underwriters.

23. Payment Due from the Supplier

All costs and damages, for which the supplier is liable to the purchaser, will be deducted by the purchaser from any money, due to the supplier, under any of the contract (s), executed with OPTCL.

24. Supplier's Responsibility.

Notwithstanding anything mentioned in the Specification or subsequent approval or acceptance by the Purchaser, the ultimate responsibility for design, manufacture, materials used and satisfactory performance shall rest with the Bidders. The Supplier(s) shall be responsible for any discrepancy noticed in the documents, submitted by them along with the bid(s)

25. Jurisdiction of the High Court of ODISHA.

Suits, if any, arising out of this contract shall be filed by either Party in a court of Law to which the jurisdiction of High court of ODISHA extends.

26. Correspondences.

- i) Any notice to the supplier under the terms of the contract shall be served by Registered Post or by hand at the Supplier's Principal Place of Business.
- ii) Any notice to the Purchaser shall be served at the Purchaser's Principal Office in the same manner.

29. Destination, Consignee and Paying Officer:

Paying Officer: DGM (Elect.), EHT (O&M) Division, Bhubaneswar.

**Consignee: SDO (Elect.), Grid S/S, Kesura / Ranasinghpur /
GIS S/S, Chandaka-B / Unit-8**

Destination: As mentioned in the schedule of quantity.

30. Outright Rejection of Tenders

Tenders shall be outrightly rejected if the followings are not complied with:

1. Tenders shall be accompanied with the prescribed **EMD**.
2. Tenders shall be kept valid for a minimum of 180 days from the date of opening of the tender.
3. Tenders shall be accompanied with clear valid photocopy of GST registration (if applicable), & clearance certificate, PAN card which must be valid on the date of opening of the tender.

All copies of documents and each page of the tender must be signed by the authorized representative of the bidders.

4. Abstract of general terms and conditions of contract.

5. Bidders not fulfilling the qualifying criteria as mentioned in **ELIGIBILITY FOR SUBMISSION OF BIDS.**

6. The performance report of concerned Authority of OPTCL those bidders who have already executed the sanitation work during last three years in any part of OPTCL.
7. The bidders have to unconditionally comply with tender specification.
8. Past experience towards supply of above materials.

Official Address of the Parties to the Contract

The address of the parties to the contract shall be specified:-

TENDERER: *GENERAL MANAGER (Elect)*
EHT (O&M) CIRCLE, BHUBANESWAR
AT-Grid Sub-Station, Chandaka, PO-KIIT
Bhubaneswar-751024
Email-ehm.cle.bbs@optcl.co.in

BIDDER:

Address : _____

Telephone/Mobile No: _____

E-mail id:- _____

SECTION-III
[LIST OF ANNEXURES]

The following schedules and Performa are annexed to this specification and contained in Section-III as referred to in the relevant clauses.

1	Declaration form	ANNEXURE-I
2	Bidders information	ANNEXURE-II
3	Abstract of terms and conditions to accompany Section-II of Part-I	ANNEXURE-III
4	Reverse Auction Process Compliance	ANNEXURE-IV
5	Schedule of Quantity and delivery schedule	ANNEXURE-V
6	General Technical Specification of Panel	ANNEXURE-VI

ANNEXURE - I
DECLARATION FORM

To,
The General Manager (Elect.)
EHT (O&M) Circle, OPTCL
Bhubaneswar

Sub: - Tender Specification No-_____

Sir,

1. Having examined the above specification together with terms & conditions referred to therein I/We the undersigned hereby offer to take up the work of

_____ in all respects as per the specification and General conditions, at the rates, entered in the attached contract schedule of prices in the Tender.

2. I / We hereby undertake the above work as specified in the Tender.

3. I / We hereby guarantee the validity of the required documents from concerned authorities to be submitted as per the ELIGIBILITY FOR BID SUBMISSION mentioned in the Tender specification.

4. I/We certify to have submitted the bid electronically by remitting *D.D. remitting the cost of tender, herewith and this has been acknowledged by your letter/ money receipt No.....
Dated.....

5. In the event of Tender, being decided in *my/our favour, * I/We agree to furnish the Composite B.G. / Fixed Deposit in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to *me/us as per Clause-19 of section-II of this specification within 15 days of issue of letter of intent/purchase order failing which *I/We clearly understand that the said letter of Intent/Purchase order will be liable to be withdrawn by the purchaser, and the EMD deposited by us shall be forfeited by OPTCL.

Signed this day of 2023

Yours faithfully

Signature of the Bidder

with seal of the company

[This form will be duly filled up & signed by the bidder before uploading of tender documents.]

* (Strikeout whichever is not applicable)

ANNEXURE-II
BIDDER'S INFORMATION

SL NO	The bidder shall furnish general information in the following format	
NAME OF THE BIDDER		
1	Address:-	
2	City	
3	Pin Code	
4	Contact person's Name :-	
5	Telephone No. office & Residence:-	
6	FAX No:-	
7	EMAIL:-	
9	SERVICE TAX REGISTRATION NO.	
10	PAN NO.	

Place: -

Date: -

Signature of the Bidder
with seal of the company

ANNEXURE-III

**ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT
[COMMERCIAL] TO ACCOMPANY PART-I**

1(a)	Cost of Tender Document: D.D No & Date.
1(b)	EMD D.D No & Date.	----- ----- -----
1(c)	Tender Processing Fee: E-Challan No. & Date.	----- ----- -----
2	Contractor's work experience including user's certificate furnished	<i>Yes/No</i>
3	Manner of work: - Whether agreeable to OPTCL's desired manner as indicated.	<i>Yes/No</i>
4	Whether agreeable to furnish Composite B.G. in case his tender be successful.	Yes/No
5	Terms of payment:- Whether agreeable to OPTCL's terms regarding payment'	Yes/No.
6	Nature of price:- FIRM	Yes/No
7	Penalty:- Whether agreeable to OPTCL's terms .	Yes/No
8	Validity: - Whether agreeable to OPTCL's terms	Yes/No
9	Whether declaration form duly filled in furnished.	Yes/No.
10	Whether scanned copy of required documents furnished.	Yes/No.
11	Whether scanned copy of Audited Accounts furnished	Yes/No.

Signature of the Bidder

with seal of the company

ANNEXURE-IV

Reverse Auction Process Compliance

(To be incorporated in the bid document).

(To be submitted on letter head of the bidding company with sign and stamp and along with Technical bid)

To,

The **General Manager (Elect.)**,

EHT (O&M) Circle, OPTCL, Bhubaneswar.

Sub: Agreement to the Process related Terms & Conditions for e-Reverse Auction.

Dear Sir,

This letter is to confirm that:

- The undersigned is authorized representative of the company.
- We have studied the Commercial Terms and the Business rules governing the Reverse Auction as mentioned in your tender and confirm our agreement to that.
- We also confirm that we have gone through the auction manual and have understood the functionality of the same thoroughly.
- We, hereby, confirm that we will honour the Bids placed by us during the tendering/ e- Reverse auction process as called as e-RA.
- We also confirm that we will accept our Rank / Position that will be displayed when the Bidding Time for the Online Reverse Auction is over.

With regards, Signature with Designation with company seal

ANNEXURE-V

SCHEDULE OF QUANTITY

SUPPLY OF DIFFERENT TYPES OF FIRE EXTINGUISHER AT DIFFERENT GSS/GIS UNDER EHT (O&M) DIVISION BHUBANESWAR.

SL No	Name of Grid Sud-Station	Details of Fire Extinguisher	Capacity	Qty
1	132/33 KV GSS Kesura	Back packWater Mist +CAFS Low presssure (any reuted make)	9ltr	2
2		Store Pressure ABC Type Powder (MAP90) Trolly Mounted	25kg	1
3	132/33 KV GSS Ransinghpur	Back packWater Mist +CAFS Low presssure (any reuted make)	9ltr	3
4	132/33 KV GIS Unit-8	Trolley Mounted Water Mist +CAFS Low presssure (any reuted make)	50 ltr	1
5		Back packWater Mist +CAFS Low presssure (any reuted make)	9ltr	2
6	220/132/33 KV GIS Chandaka-B	Trolley Mounted Water Mist +CAFS Low presssure (any reuted make)	50 ltr	2

ANNEXURE-VI

TECHINICAL SPECIFICATION OF DIFFERENT FIRE EXTINGUISHERS.

1. Trolley mounted 50 ltrs water mist + CAFS Fire Fighting system.

Sl.no.	Detailed Particulars	Requirement
1	Technology	Water Mist & CAFS (Low pressure)
2	Capacity (size)	50 Litres As per DIN EN1866-1:2007
3	Working Pressure	Upto 11 bars
4	Water cylinder Capacity	50 litres
5	Water Cylinder - construction	Non-corrosive Stainless Steel SS-316.
6	Water Cylinder - Working pressure	05 to 12 bars
7	Water Cylinder - Testing pressure	Not less than 1.5 times the working pressure
8	Water Cylinder external paint	The cylinder should be of red colour with powder coating. The paint should confirm to IS:5:2007 Shade 538
9	Safety valve opening pressure	1.5 Times working pressure
10	Trolley	As per DIN EN1866-1:2007
11	Air Bottle Capacity	6.0 liters/300 bar
12	Air Bottle - construction	Seamless Mild Steel Cylinder
13	Air Bottle - Working pressure	300 bars
14	Air Bottle – markings	1. Chief Controller of Explosives/model number/serial number / year of manufacture/Chief Controller of Explosives approved valve with built in pressure gauge 2. The serial number on the cylinder shall match with the certificate.
15	Air Bottle - propellant	Compressed normal air
16	Air Bottle – certification	PESO (Petroleum and explosive safety organization) Chief Controller of Explosives – Nagpur
17	Total weight Filled	105 kg (Water Bottle filled & Air bottle 6.0 liters / 300 bar air filled)
18	Operating/Working pressure	Not more than 11 Bars
19	Operating - temperature	Minimum +5 degree to maximum +60 degree Celsius

20	Gun - construction	Non corrosive SS metal (dual phase) with external plastic covering, smooth bore, atomizer chamber and mixing chamber
21	Gun - weight without hose	Should be 1.5 kg. ± 10%
22	Gun - working principle	An air atomizer chamber / mixing chamber present in the gun. Two inlets to the gun chamber, one carries water pressurised at ≤ 12 bars from the water vessel & the other carries pressurised air from the compressed air cylinder to the gun.
23	Nozzle Modes	Jet & Spray
24	Jet - Lancing Distance	15 meters (variance of upto -5% & + no limit)
25	Jet - Minimum Discharge duration- Continuous and at full throttle	more than 100 seconds
26	Spray - Minimum Discharge duration	more than 100 seconds
27	Consumption of extinguishing agent	0.4 to 0.5 liters per second
28	Turn over from - Jet mode to spray mode by twisting of nozzle	Time taken shall not be more than 1 second with a provision of changeover from Jet to spray mode and vice versa by simple twist of nozzle without disrupting water mist discharge.
29	Water Bottle - Pressure release mechanism to decompress the water bottle	Pressure release mechanism to decompress the water bottle shall be provided for fast refilling
30	Device operation	Shall be suitable for both left and right hand operations
31	Fire extinction - suitability with standard AFFF 6% confirming to IS 4989 or UL 162 or EN 1568-3-2008 standards	Class - A Class - B Live Electrical fires
32	System Test : Electrical Test Certificate - With details of test methods	1000 V as per EN 3-7 / IS - 15683 (Tested for 35 kva)
33	Product Certificates:	Certification from any NABL accredited Lab (tested in Indian condition) / National Test House as per DIN EN1866-1:2007 Test report shall be enclosed along with the offer.
34	Fire Rating Certificates with standard AFFF 6% foam: For Class A	Minimum 55A
35	Fire Rating Certificates with standard AFFF 6% Foam: For Class B	Minimum IIB
36	PED certification	The product should be PED certified to PED 2014/68/EU, ANNEXIII(MODULE H)
37	PESO Licence	The supplier should have a licence from PESO for refilling & storage of high pressure gas cylinders.
38	Warranty	3 years
39	Spare parts Support	Minimum 10 years

2. 9 Ltrs Backpack Water Mist & CAFS Fire fighting system

Product Description: Water Mist & CAF based fire extinguisher of 9 Ltrs Capacity consisting of a Stainless Steel (SS 316L) water container, two units of 2 Ltrs Compressed Air Cylinder of Aluminum Alloy and one atomization gun with jet mode & spray mode. The system operates on twin fluid low pressure technology with operating pressure being lesser than 15 bars.

S. No.	Details	Technical Parameter
1	Capacity	9 Ltrs mounted on a Backpack
2	Contents	94% Water + 6% Foam (AFFF 3%)
3	Test of Foam	Foam / it's components should be tested to manufacturer's specifications for Viscosity, Density, Refractive Index & pH level as per EN 1568 from an international lab like LPCB, BSI and MPA Dresden
4	Safety Device	Safety device should be available as per Cl.10.3 of BS EN 3-7:2004+A1:2007
5	Propellant	Air
6	Propellant Cylinder	Aluminum Alloy Cylinder with PESO Approval, capacity 2Ltrs, Pressurised to 200 bars, Hydrostatic pressure test at 300 bars
7	Operating Pressure of the system	8 bar to 8.5 bar
8	Hose Length	1.3 Meters
9	Gross Weight of the system	24.010 Kg
10	Gun weight	1.6 kg \pm 5%
11	Lancing distance	13 meters Minimum
12	Hose Burst pressure Test	Water hose, Air hose & Booster hose should be tested for burst pressure & confirm to Cl. 10.5 of BS EN 3-7:2004+A1:2007
13	Tested to standard	Extinguisher shall be tested to BS EN 3-7:2004+A1:2007 from any international body / test lab like BSI, MPA Dresden and LPCB. Test report should not be more than three years old. The test report should be with GA drawing, components drawing & list of components along with their material of construction.
14	Electrical non conductivity	The extinguisher should be tested to BS EN 3-7:2004+A1:2007, Clause 9, from ERDA for Dielectric Test on Water & Water + Foam in Jet Mode & Spray Mode. Test report should not be more than 3 years old.
15	Class A Fire Rating	27 A
16	Class B Fire Rating	233 B

17	Duration of operation	20 sec TO 21 sec
18	Commencement of discharge	</= 1sec
19	Operating temperature	5 ⁰ C to 60 ⁰ C
20	Tested for Corrosion	The extinguisher would be tested for external corrosion as per cl.14.1 and for internal corrosion as per cl.14.2 of BS EN 3-7:2004+A1:2007
21	Colour of the body	Red RAL 3000 as per cl. 16.1 of BS EN 3-7:2004+A1:2007
22	Gun operating mode	Gun shall have both Jet & Spray mode of operation. Change over of spray mode to jet mode & vice versa shall be by a slight twist of the nozzle in front of the gun.
23	Constructional Requirements	The extinguisher shall be tested for constructional requirements of BS EN 137:2006 (Cl. 6.3, 6.4, 6.11.1, 6.11.1.1, 6.13, 6.14) from an international body / test laboratory like BSI, LPCB and MPA Dresden. The test report should not be more than three years old.
24	PED certification	The product should be PED certified to PED 2014/68/EU, ANNEXIII(MODULE H)
25	PESO Licence	The OEM should have a licence from PESO for refilling & storage of high pressure gas cylinders.
26	Warranty	3 Years
27	Spare parts Support	Minimum 10 years

3. ABC Type (MAP 90) 25 Kg Capacity Trolley Mounted Stored Pressure

Sl. No.	Details	Technical Parameters
1	Technology used in Vessel manufacturing	Vessel used in the manufacturing should be constructed using Drawn Rolled and MIG welding
2	Diameter of shell	Up to 300mm and mounted on trolley
3	Sheet metal thickness	Should not less than: 3.0 mm
4	Discharge hose with shut off nozzle	Should be provided and length of hose should not be less than 5.0 meter
5	Material use of construction	should be [Steel CR2(DC01)]
6	Valve Construction	Forging & Machining
7	Internal Coating of Can	Epoxy Powder coating
8	External Coating of Can	Epoxy Polyester Powder coating
9	Gross weight	Should be within range of 62.00kg to 64.00kg
10	Content mass	Should be 24.50kg to 25.50kg
11	Serial no. and date of manufacturing	Should be embossed on the body of the fire extinguisher
12	Vessel Check	Each vessel needs to be checked for tensile strength up to 38 bar and Manufacturer has to submit Hydrostatic pressure testing certificate for the same
13	Service pressure and Maximum service pressure of extinguisher	should be 1.5MPa (at 22deg C) and 1.7MPa (at 55deg C +/- 5 deg C) respectively
14	Minimum burst pressure of extinguisher	Shall not be less than 7.5MPa and crack should not occur at welding. Also confirms that the burst should not cause the cylinder to fragment, does not show any sign of brittleness, any characterize defect in the metal and no parts should eject from the cylinder during test
15	safety device and operating pressure	There should be a safety device and operating pressure is not less than 2.0MPa
16	Discharge time	Should not less than 30 Secs

17	Bulk range throw	Should be minimum 6.5 Meters
18	controllable discharge mechanism	Fire Extinguisher must have controllable discharge mechanism to provide flexibility of releasing extinguishing agent on targeted fire location
19	Applicable on Class	A, B, C and electrically started Fire
20	Fire rating	Fire rating should be class A: 20A and class B: 233B
21	Warranty	06 Years
22	Certification	The current and valid BIS certification IS 16018 needs to be submitted along with offer
		Dry chemical powder used as extinguishing agent should be Mono Ammonium Phosphate 90% concentration.
		The Product should be EN PED Approved and CE marked
		The extinguishers should be pressurized using high grade Dry Nitrogen as per IS 1747 standard. OEM declaration should be submitted
		Minimum Fire Rating as IS: 16018, for class A: 20A and class B: 233B needs to be provided for the extinguisher
		The firm should submit the product performance test report from NABL accredited Lab