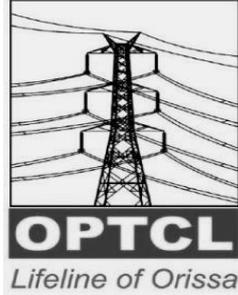


**ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡି.**  
**ODISHA POWER TRANSMISSION CORPORATION LTD.**

*(A Government of Odisha Undertaking)*



**E.H.T. (O&M) CIRCLE, BERHAMPUR**

**TENDER SPECIFICATION FOR**

**E-TENDER CALL NOTICE No. BAM-11/ 19-20**

**“E-Procurement for supply of different type of fire extinguishes for various Grid Sub-Stations under EHT(O&M)Division, Berhampur & Chatrapur”.**

**Tender documents Price- Rs. 6,000/- + 12% GST= Rs. 6,720/-**

# ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.



ODISHA POWER TRANSMISSION CORPORATION LIMITED  
(A Government of Odisha Undertaking)  
CORPORATE IDENTITY NUMBER (CIN) U40102OR2004GC007553  
O/O GENERAL MANAGER, EHT (O&M) CIRCLE, BERHAMPUR  
PO: ENGINEERING SCHOOL, DIST: GANJAM-760010  
FAX/☎: 0680-2291905, ☎0680-2291904

## E-TENDER SPECIFICATION NO- BAM-11/2019-20

“ E-procurement for supply of different type of fire extinguisher for various Grid Sub-Stations under  
EHT(O&M) Division Berhampur & EHT(O&M)Division Chatrapur”

### PART-I

- SECTION-I- TENDER CALL NOTICE
- SECTION-II- INSTRUCTION TO BIDDER
- SECTION-III- GENERAL TERMS & CONDITION
- SECTION-IV- TECHNICAL SPECIFICATION
- SECTION-V- DETAILED DATA SHEET TO BE FURNISHED BY THE TENDERER
- SECTION-VI- DETAILED SPECIFICATION SHEET TO BE FURNISHED BY THE TENDERER
- SECTION-VII- PRICE SCHEDULE( TO BE FURNISHED IN THE GIVEN EXCEL FORMAT)
- SECTION-VIII- LIST OF ANNEXURES

### PART-II

#### PRICE BID & TECHNO COMMERCIAL BID (IN EXCEL FORMAT)

Request for online tender documents:	From	dt- 24.03.2020 (10.00 Hrs)	To	dt- 15.04.2020 (12.30 Hrs)
Issue of online tender documents:	From	dt- 24.03.2020 (10.00 Hrs)	To	dt- 15.04.2020 (12.31 Hrs)
Last date of submission of online tender:	Up to	dt- 15.04.2020 (15.00 Hrs)		
Date of opening of Techno-commercial Bid:	On	dt- 16.04.2020 (11.30 Hrs)		

#### TELEPHONES / CONTACTS

1. General Manager: 09438908091
2. TA to General Manager: 9438908079

#### 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.**

# ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଃ.



**ODISHA POWER TRANSMISSION CORPORATION LIMITED**  
 (A Government of Odisha Undertaking)  
**CORPORATE IDENTITY NUMBER (CIN) U40102OR2004GC007553**  
**O/O GENERAL MANAGER, EHT (O&M) CIRCLE, BERHAMPUR**  
**PO: ENGINEERING SCHOOL, DIST: GANJAM-760010**  
**FAX/☎: 0680-2291905, ☎0680-2291904**

## PART-I

### SECTION-I

#### e-TENDER CALL NOTICE NO. BAM-11/2019-20

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD, General Manager, EHT (O&M) Circle, Berhampur invites Tender from Reputed Manufacturers/ Authorized Dealers in one part bidding system for supply of different types of fire extinguisher for various Grid Sub-Stations under EHT (O&M) Circle, Berhampur.

Sl. No.	Tender Specification No.	Description of Items	Qty.	INDIAN RUPEES			Last date of submission & Date of opening of Tender
				Earnest Money Deposit	Cost of Tender Spec. Document	Tender Processing Fee	
1	BAM-11/2019-20	<b>LOT-I</b>  <b>EHT (O&amp;M) Division Berhampur</b>	Supply of Trolly mounted Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 50 litre capacity as per specification (attached)	1	<b>RS. 24,950/- (DD) for both the LOTS</b>	<b>Rs.6,000/- + 12% GST = Rs.6,720/- (DD) for both the LOTS</b>	<b>Rs.5,900/-</b>
		Supply of Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 9 litre capacity as per specification (attached)	4				
		Supply of ABC Dry chemical powder type 6 Kg capacity stored pressure Fire Extinguisher as per specification (attached)	9				
		Supply of 4.5kg capacity CO2 type Fire Extinguisher having Aluminium container as per specification (attached)	9				
2	<b>EHT (O&amp;M) Division</b>	Supply of Trolly mounted Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 50 litre capacity as per specification (attached)	1				<b>up to dt- 15.04.2020 (15.00 Hrs) and 16.04.2020 (13.00 Hrs)</b>

		<b>Chatrapur</b>	Supply of Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 9 litre capacity as per specification (attached)	4				
			Supply of ABC Dry chemical powder type 6 Kg capacity stored pressure Fire Extinguisher as per specification (attached)	12				
			Supply of 4.5kg capacity CO2 type Fire Extinguisher having Aluminium container as per specification (attached)	10				

**NB: The bidders have to participate for both the LOTS, not for single LOT**

The interested bidders would be required to enrol themselves on the tender portal [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) and must possess [Class 3 Digital Signature Certificate](#). Complete set of bidding documents are available at [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) from **dt: 23.03.2020 (10:01 Hrs) to dt – 15.04.2020 (12:31 Hrs)**. Interested bidders may visit OPTCL's official web site <http://www.optcl.co.in> and [www.tenderwizard.com/OPTCL](http://www.tenderwizard.com/OPTCL) for detail specification.

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. 6,720/- (Rupees Six Thousand Seven Hundred Twenty only) non refundable** (including GST @ 12%) towards the cost of tender document, in the form of Demand draft only, drawn in favour of **General Manager(Electrical), EHT (O&M) Circle, OPTCL, Berhampur, Payable at Berhampur** and the same is to be submitted to the office of the undersigned on or before the last date of opening of Tender.

**The bidders shall have to submit a non refundable amount of Rs 1,593/- (Rupees One Thousand Five Hundred Ninety Three) 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 and Net Banking)**

The bidders shall scan the Demand Draft towards EMD, 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](http://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.

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](http://www.tenderwizard.com/OPTCL) only.

**GENERAL MANAGER (ELECT.)  
EHT (O&M) CIRCLE,  
BERHAMPUR**

## SECTION-II

### INSTRUCTION TO BIDDERS

#### **1. Submission of Bids: -**

The bidder shall submit the bid in Electronic Mode only i.e [www.tenderwizard.com/OPTCL](http://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.

The 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/IT Act.

- i. For all the users it is mandatory to procure the Class 3 Digital Signatures.**
- ii. Manufacturers/ Dealers/ Bidders / Suppliers are requested to follow the below steps for Registration:
  - a. Click "Register", fill the online registration form.
  - b. Pay the amount of **Rs. 2360/-** for registration fee 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.
- iii. 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.
- iv. 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 be 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](http://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 (DSC).
    - Select the Certificate and enter DSC Password.
    - Re-enter the e-Procurement User Id Password
- v. To make a request for Tender Document, Bidders will have to follow below mentioned steps.
  - Click "Un Applied" to view / apply for new tenders.
  - Click on Request icon for online request.
  - Enter the required fields including details of D.D for tender Processing fee.
- vi. After making the request Bidders will receive the Bid Documents which can be checked and downloaded by following the below steps:
  - Click to view the tender documents which are received by the user.
  - Tender document screen appears.
  - Click "Click here to download" to download the documents.

- vii. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
- Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
  - Note down / take a print of bid control number once it displayed on the screen
- viii. Tender Opening event can be viewed online.
- ix. Competitors bid sheets are available in the website for all.
- x. **For any e-tendering assistant contact help desk number mentioned below.**
- **Bangalore– 080- 40482000.**
  - **Mr. Satamanyu– mob: 09937140591**

**2. Purchaser's Right Regarding Alteration of Quantities Tendered.**

The Purchaser may alter the quantities of materials/equipment 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 tenderer for any particular item, if considered necessary in the interest of the Purchaser to get the goods/equipment earlier.

**3. 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

**4. Mode of submission of Tenders.**

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

[B] **Telegraphic or FAX tenders** shall not be accepted under any circumstances.

**5. Earnest money deposit:**

The tender shall be accompanied by Earnest Money deposit(EMD) of value specified in the notice inviting tenders against each bid. Tender without the required EMD will be rejected out rightly. The earnest money deposit shall be furnished in shape of **Bank Draft (Only)**:-To be drawn in favour of **General Manager(Electrical),EHT (O&M) Circle, OPTCL, Berhampur, Payable at Berhampur.**

**NOTE:-**

- a) No adjustment towards EMD shall be permitted against any outstanding amount with the **ODISHA POWER TRANSMISSION CORPORATION LTD.**
- b) In the case of un-successful tenderer, the EMD will be refunded on written request without any interest after the tender is decided. In the case of successful Tenderer, this will be refunded only after award of contract & on submission of BG/DD as security deposit.
- c) 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.
- d) EMD will be forfeited if the tenderer fails to accept the letter of intent and /or purchase order issued in his favour or to execute the order, placed on them.
- e) Tenders not accompanied by Earnest Money shall be disqualified.
- f) The EMD carries no interest.

- g) **The EMD not claimed for refund within a period of one year from the date of issue of Purchase/ Work orders and the Security Deposit not claimed for refund within a period of three years after completion of contract, will be forfeited.**

**6. Validity of the Bids: -**

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

**7. PRICE: -**

The bidders are advised to quote their rate as per the price schedule attached with specification and shall remain firm inclusive of all taxes & duties, labour charges etc. within the validity of the tender. However GST will be paid extra as per Govt. Prevailing rule.

**8. Tenderers to be fully conversant with the clauses of the Specification:**

Tenderers 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 tenderer may seek clarification in writing from the **General Manager(Elect), EHT (O&M) Circle, Berhampur**. This, however does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.

**9. Documents to Accompany Bids.**

Tenderers are required to submit tenders in the following manner:

- a) Declaration Form as per **Annexure-I** (duly signed) to be uploaded in **\*.pdf** format.
- b) Earnest Money (scanned copy is to be uploaded)& original DD should be submitted on or before opening of Tender
- c) Abstract of Terms & conditions in prescribed Performa as per **Annexure-II**. To be keyed in the Techno commercial bid sheets provided.
- d) General Terms & Conditions of contract as per Section-II of the Specification. (All the required documents are to be uploaded.)
- e) Data on past experience if any as per the Specification.(Scanned copy to be uploaded)
- f) Proof of Manufacturer/ Supplier having dealership certificate / Authorised dealer & permanent account number (PAN) of the firm is required under Income tax Act. (Scanned copy to be uploaded).
- g) Any other document required, is to be uploaded.
- h) Schedule of prices in the prescribed Performa in the price bid sheet provided in **\*.xls** format.
- i) Photostat copies of type test certificates of materials offered as stipulated in the Technical Specification.

**10. Conditional Offer:**

Conditional offer shall not be accepted.

**11. General Instruction to the Tenderers : -**

- i) The tenderer must get him registered in tender portal by paying an **non refundable** amount of **Rs. 2,360/- through e-payment gate way**. This registration is valid for one year.
- ii) The tender paper cost (Form fee non refundable) for an amount of **Rs 6,720/- to be deposited in shape of DD**.

- iii) The tender processing fee for an amount of **Rs 1350/- + GST @18%=Rs.1593/- (Non-refundable) is to be paid to KSEDC Limited, Bangalore through e-payment gateway.**
- iv) The EMD amount as specified is to be paid in shape of Demand draft.
- v) 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 Tenderer.
- vi) Notice inviting tender shall form part of this specification.
- vii) The EMD shall be returned to the unsuccessful bidders after finalization of tender on written request.
- viii) It should be distinctly understood that the price bid and techno-commercial bid shall contain only details / documents relating to price and technical details, as mentioned herein above.
- ix) **The Tenderer must submit the EMD amount, cost of tender document in shape of draft and proof of Tender processing fee in a sealed cover envelope super scribing the Tender Notice No & Date of opening of tender. The said envelope is to be submitted in the office of the purchaser on or before the last date and time of submission of tender.**

**General Manager (Elect)  
EHT (O&M) Circle,  
Berhampur.**

## SECTION-III

### **GENERAL TERMS AND CONDITIONS**

- 1. PRICE: -a)** The price quoted should be firm, F.O.R. destination inclusive of freight, Insurance, Packing, Forwarding charges inclusive discount if any.  
b) Taxes, if any shall be mentioned extra. The Tenderer may quote rate in respect of different make materials as per scheduled.
- 2. VALIDITY: -**  
Prices & conditions contained in the offer should be valid for at least a period of 180 (one hundred eighty) days from the date of opening of the tender failing which the the tender shall be rejected.
- 3. TERMS OF PAYMENT:-** 100 % Payment(**Against Security Deposit else 90% payment will be made**) with taxes etc shall be made within **30 days** after receipt of materials in full & in good condition and verification thereof by the consignee subject to availability of funds from Head office.
- 4. DELIVERY of materials:-** The materials in full quantity shall be delivered within **45 days** of receipt of purchase order at destination , failing which purchase order shall be liable for cancellation with forfeiture of Earnest money/ Security Deposit. However early delivery shall be preferred.
- 5. PENALTY FOR DELAY IN DELIVERY :-** If the supplier shall fail to deliver the materials within the delivery period as stipulated under clause No. 4 (Section-III) of this Tender document or any extension granted there to, the purchaser shall recover from the supplier penalty for a sum of half percent (i.e. 0.5 percent) of the contract price for each calendar week or part thereof of delay. However the total amount of penalty shall not exceed 5% (five percent) of the contract/ undelivered items price. Materials will be deemed to have been delivered only when all the component parts are also delivered. If certain components are not delivered in time, the supply will be treated as delayed until such time the missing/ undelivered parts are delivered.
- 9. EXTENSION OF TIME:** If the delivery of materials is delayed due to reason beyond the control of supplier, the supplier shall without delay give justification. The purchaser on receipt of such notice may agree to extend the contract delivery date if reasonable but without prejudice to other terms and conditions of this contract.
- 10. EARNEST MONEY:-** Earnest Money of **1% of estimated price** only shall be accompanied in shape of **bank draft** in favour of **General Manager(Electrical), EHT (O&M) Circle, OPTCL, Berhampur** payable at **Berhampur**. The Tenders without Earnest Money shall be liable for rejection. No interest shall be paid on EMD. In case of non- compliance/ non response to the correspondence made by this office, the EMD shall be forfeited.
- 11. INSURANCE:** Insurance of materials is to be done by the supplier at their own cost. The responsibility of delivery of the materials at destination in good condition rests with the supplier. Any claim with the insurance company/ Railway authority/ Road transport authorities arising due to loss or damage in transits has to be settled by the supplier. The supplier shall undertake free replacement of materials damage or lo, which will be reported by the consignee, within 30days of the receipt of the materials at destination without waiting for the settlement of the claims with the carriers and underwriters.
- 12. DESPATCH INSTRUCTIONS:** The materials should be securely packed and dispatched by Rail/ road transport to destination as per allotment. The cost of transportation will be borne by the supplier.
- 13. FREE REPLACEMENT:** Free replacement of materials lost/ damaged due to transit shall be made immediately on receipt of the intimation from the consignee / paying Officer without awaiting for settlement of the claim of bidders with Railway/ Lorry/ Insurance Company.
- 14. GUARANTEE:-**The materials supply covered under this contract should be guaranteed for trouble free and satisfactory performance against any defects in design, materials and workmanship for a Period of at least 30 months from the date of supply or 24 (twenty four) months from the date of use whichever is earlier. The G.C shall be furnished after supply of materials to the undersigned in triplicate for approval. Any defects noticed during this period should be rectified / replaced by the firm free of cost provided such defects are due to faulty design, bad workmanship or bad materials used. The replaced materials should also have similar guarantee.

- 15. SECURITY DEPOSIT:** -The successful Tenderer has to deposit 10% of the contract value as Security Deposit within 15 days of issue of purchase order. In case of non-execution of order the Security Deposit and EMD shall be forfeited. The Security Deposit amount will be refunded after successful completion of the guarantee period. The security deposit shall not carry any interest.
- 16. AUTHORITY - General Manager (Electrical), EHT (O&M) Circle, OPTCL, Berhampur**
- 17. CONSIGNEE & VERIFYING OFFICER:** - SDO (Elect S/s & T/L Sub-division, Narendrapur for LOT-I & SDO (Elect S/s & T/L Sub-division, Chatrapur for LOT-II).
- 18. PAYING OFFICER:** Deputy General Manager (Elect.), EHT (O&M) Division, OPTCL, Berhampur for LOT-I and DGM EHT (O&M) Division, Chatrapur for LOT-II.
- 19. STANDARD:-**The materials offered self confirm to relevant ISS.
- 20. ADDITION & ALTERATION:** -The authority reserves the right to add or to reduce the quantum of materials without assigning any reasons thereof.
- 21. RIGHT TO REJECT / ACCEPT ANY TENDER:** -The Authority reserves the right, either to reject or accept any or all the tenders without assigning any reasons thereof.
- 22. JURISDICTION OF THE COURT:** -For the purpose of jurisdiction of court in the event of dispute if any shall be deemed to have entered into any court of law at Berhampur to which the jurisdiction of Orissa High Court extends and it is hereby expressly agreed that neither party shall be competent to bring a suit in regard to the matter covered by this purchase at any place outside in State of Orissa
- 23. SUBMISSION OF PAN No. & GST CERTIFICATE:-** Clear attested Xerox copies of PAN No. & GST certificate valid on the date of opening of tender should be submitted along with the tender, failing which, the tender will be rejected.
- 24. OTHER TENDER TERMS:-**  
We prefer single vendor, who can supply all the tender material to get better after sale service.  
Preference will be giving those having experience in OPTCL for same kind of product as per the Tender.
- 25. SUBMISSION OF PROOF REGARDING MANUFACTURER'S CERTIFICATE/ AUTHOIRISED DEALERSHIP CERTIFICATE, PRICE LIST OF MANUFACTURERS, PAST EXPERINCE OF EXECUTION OF ORDER PERFORMANCE CERTIFICATE, TYPE TEST CERIFICATE:-**Attested legible Xerox copy of necessary manufacture's certificate, valid authorised dealership certificate, Manufacturer's price list, past experience of execution of orders, type test certificate& technical literature etc are to submitted along with the tender.

**General Manager (Elect)  
EHT (O&M) Circle,  
Berhampur**

**SECTION-IV**

**TECHNICAL SPECIFICATION FOR PROCUREMENT OF FIRE DIFFERENT EXTINGUISHERS.**

**1. Trolley Mounted 50L Water Mist + CAFS Fire Fighting Systems**

Sl. No.	Details	Technical Parameters
1	Technology	Water Mist & CAFS (Low Pressure)
2	Capacity (size)	50 Liters As per DIN EN1866-1:2007
3	Working Pressure	Upto 11 bars
4	Water cylinder Capacity	50 liters
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 color 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	Not more 105 kg (Water Bottle filled & Air bottle 6.0 liters / 300 bar air filled)
18	<b>Operating/Working pressure</b>	<b>Not more than 11 Bars</b>
19	Operating – temperature	Minimum +5 degree to maximum +60 degree Celsius
20	Gun – construction	1. Non corrosive SS metal (dual phase) with external plastic covering, smooth bore, atomizer chamber and mixing chamber.
21	<b>Gun - weight without hose</b>	<b>Should be 1.5 kg. ± 10%</b>
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 <math>\leq 12</math> bars from the water vessel & the other carries pressurised air from the compressed air cylinder to the gun.
23	<b>Nozzle Modes</b>	<b>Jet &amp; Spray</b>
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	<b>Turn over from - Jet mode to spray mode by twisting of nozzle</b>	<b>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.</b>
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	<b>Fire extinction - suitability with standard AFFF 6% confirming to IS 4989 or UL 162 or EN 1568-3-2008 standards</b>	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	<b>Product Certificates:</b>	<b>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.</b>
34	<b>Fire Rating Certificates with standard AFFF 6% foam: For Class A</b>	<b>Minimum 55A</b>
35	<b>Fire Rating Certificates with standard AFFF 6% Foam: For Class B</b>	<b>Minimum IIB</b>
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. Co2 Type Fire Extinguisher of 4.5kg Capacity (Aluminium Container)**

<b>Sl. No.</b>	<b>Details</b>	<b>Technical Parameters</b>
1	Body Construction	Aluminum Type
2	Vessel used in the manufacturing	should be constructed using Cold Impact Extrusion
3	Diameter of shell	up to 150 mm and mounted on trolley
4	Sheet metal thickness	should not less than: 4.0 mm
5	Used/Unused readiness Indicator	Used/Unused readiness Indicator to identify the used extinguishers from the unused extinguishers
6	Material of construction	Should be [Al Alloy 6061].
7	Type	The extinguisher should be trolley mounted for easy maneuvering.
8	Valve Construction	Forging & Machining
9	External Coating of Can	Epoxy Polyester Powder coating
10	Gross weight	should be within the range of 13.90 to 14.40 kg
11	Content mass	should be within the range of 4.275 to 4.725 kg
12	Serial no. and date of manufacturing	Should be embossed on the body of the fire extinguisher.
13	Service pressure and Maximum service pressure of extinguisher	Should be 70 bar and 156 bar respectively.

14	safety device and operating pressure	There should be a safety device and operating pressure is not less than 2.0 MPa.
15	Discharge time	Should not less than 12 Secs.
16	discharge mechanism	Fire Extinguisher must have controllable discharge mechanism to provide flexibility of releasing extinguishing agent on targeted fire location
17	Bulk range throw	should be minimum 3.0 Meter
18	Applicable on Class	Applicable on Class B, C & Electrically started fire
19	Fire rating	should be class B: 55 B
20	Warranty	10 Years Warranty and a sample of the warranty card with terms & conditions to be submitted.
21	Certification	The current and valid BIS certification IS: 15683 needs to be submitted along with offer.
		The vessel should be PESO Approved
		The Product should be EN PED Approved and CE marked.
		The bidder must have valid PESO license to refill and store compressed gas cylinders as per Gas Cylinder rules 2004
		The carbon dioxide gas shall conform to IS 15222 with latest amendment.
		Discharge valve shall be conform to all the requirement given in IS 3224:2002 or latest version thereof
		The Co2 Cylinder shall be conform to all the requirement given in IS 7285:2004.
		Minimum Fire rating as per IS: 15683 Class B: 55B needs to be provided for the extinguisher.
The firm should submit the product performance test report from NABL accredited Lab.		

### 3. Back Pack 9 L Water Mist + CAFS Fire Fighting Systems

Technical Specifications for the procurement of Portable (Backpack) Water Mist + CAFS Fire Fighting Systems.		
Sl. No.	Details	Technical Parameters
1	Technology	Water Mist & CAFS
2	Capacity (size)	9 Ltrs. (As per EN 3-7 :2004+A1:2007)
3	<b>Working Pressure</b>	<b>upto 10 Bar</b>
4	Water Cylinder - construction	Non-corrosive Stainless Steel SS-316.
5	Water Cylinder - Working pressure	upto 10 bar
6	Water Cylinder - Testing pressure	Not less than 1.5 times the working pressure
7	<b>Water Cylinder external paint</b>	<b>The cylinder should be of red color with powder coating. The paint should confirm to IS:5:2007 Shade 538</b>
8	Safety valve opening pressure	1.5 Times working pressure

9	Back pack harness	<ol style="list-style-type: none"> <li>1. The harness system shall be made out of synthetic fire resistant material confirming to IS 15758(Part4) and shall provide minimum stress and fatigue to the wearer.</li> <li>2. The system shall be designed ergonomically.</li> <li>3. Shall provide maximum maneuverability to the wearer.</li> <li>4. The back plate shall be constructed from a strong, carbon composite material</li> <li>5. Shall be rigid, anti-static and highly resistant to impact, chemicals, flames and high temperatures.</li> </ol>
10	Air Bottle Capacity	4.7 liters/300 bar
11	Air Bottle - construction	Carbon composite, light weight cylinders
12	Air Bottle - Working pressure	300 bars
13	Air Bottle - markings	<ol style="list-style-type: none"> <li>1. Chief Controller of Explosives/model number/serial number / year of manufacture/Chief Controller of Explosives approved valve with built in pressure gauge</li> <li>2. The serial number on the cylinder shall match with the certificate.</li> </ol>
14	Air Bottle - Universal cylinder holder	Shall hold 2 liters to 6 liters capacity cylinders.
15	Air Bottle - valve and pressure gauge	EN (European Standards) approved valve and pressure gauge, respectively.
16	Air Bottle - propellant	Compressed normal air
17	Air Bottle - certification	PESO (Petroleum and explosive safety organization) Chief Controller of Explosives - Nagpur
18	Portability	Hand Held & Back Pack
19	Total weight Filled	Not more 27 kg (Water Bottle filled & Air bottle 4.7 liters / 300 bar air filled)
20	Operating/Working pressure	Minimum 5 bars & Not more than 10 Bars
21	Operating - temperature	Minimum +5 degree to maximum +60 degree Celsius
22	Gun - construction	<ol style="list-style-type: none"> <li>1. Non corrosive SS metal (dual phase) with external plastic covering, smooth bore, atomizer chamber and mixing chamber.</li> <li>2. The rating of the high pressure flexible tube shall be minimum 3 times the working pressure.</li> </ol>
23	<b>Gun - weight without hose</b>	<b>Should be 1.5 kg. ± 10%</b>
24	Gun - working principle	Fine water mist water particles are created in the Air atomizer chamber / mixing chamber present in the gun. Two inlets to the gun chamber, one carries water pressurised at $\leq 9$ bars from the water vessel & the other carries pressurised air from the compressed air cylinder to the gun.
25	<b>Nozzle Modes</b>	<b>Jet &amp; Spray</b>
26	Jet - Lancing Distance	13 meters Minimum
27	Jet - Minimum Discharge duration- Continuous and at full throttle	21 seconds
28	Consumption of extinguishing agent	0.4 to 0.5 liters per second
29	<b>Turn over from - Jet to spray</b>	<b>Shall not be more than 1 second with a provision of changeover from Jet to spray mode &amp; vice versa by simple twist of nozzle without disrupting water mist discharge.</b>
30	Water Bottle - Pressure release mechanism to decompress the water bottle	Pressure release mechanism to decompress the water bottle shall be provided for fast refilling

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 - 1000 V as per EN 3-7/IS - 15683 (Tested for 35 kva)
32	System Test : Electrical Test Certificate - With details of test methods	Certification from ERDA as per IS 15683.
33	Product Certificates:	Certification from any NABL accredited Lab (tested in Indian condition) / National Test House as per EN3-7:2004+A1:2007 . Test report shall be enclosed along with the offer.
34	<b>Fire Rating Certificates with standard AFFF 6% foam: For Class A</b>	Minimum 55 A
35	<b>Fire Rating Certificates with standard AFFF 6% Foam: For Class B</b>	Minimum 233 B
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

#### **4. ABC Dry Chemical powder Type (MAP 90) 6Kg Capacity Stored Pressure**

Sl. No.	Details	Technical Parameters
1	Vessel used in the manufacturing	<b>Should be constructed using Deep Drawn Technology and MIG welding.</b>
2	Sheet metal thickness	Should not less than: 1.60 mm
3	Carrying handle	There should be carrying handle with length not less than 91mm
4	Discharge hose	Should provide and length of flexible section should not be less than 450 mm
5	Material use for construction	Should be [Steel CR2(DC01)]
6	Valve Construction	Forging and 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 9.12 Kg to 9.36 Kg
10	Content mass	Should be 5.88 Kg to 6.12 Kg
11	Serial no. and date of manufacturing	Should be embossed on the body of the fire extinguisher
12	Warranty	6 Years
13	Vessel Performance	Each vessel needs to be checked for tensile strength upto 35 kgf/cm <sup>2</sup> and Manufacturer has to submit Hydrostatic pressure testing certificate for the same
14	Service pressure and Maximum service pressure	Service pressure and Maximum service pressure of extinguisher should be 15 Bar and 17.2 Bar respectively.
15	Minimum burst pressure of extinguisher	Shall not be less than 55 Bar and crack should not occur at welding upto 80 Bar. Actual burst pressure

		should be above than 105 Bar with no crack at welding seam.
16	Helium Leak Detection Testing	In-house Helium Leak Detection Testing is must to ensure maintenance of Stored Pressure in the cylinder over a period of 5 years and provide certificate for the same
17	Metal Pin	There should be a Metal Pin
18	Pressure Gauge	The fire extinguisher must have a Magnetic Pressure Gauge to enable the checking of pressure gauge's correct working without dismantling or opening the cylinder
19	Discharge time	Should not less than 21 Seconds
20	Controllable discharge mechanism	Fire Extinguisher must have controllable discharge mechanism to provide flexibility of releasing extinguishing agent on targeted fire location
21	Bulk range throw	Should be minimum 4.3 Meters
22	IS Fire rating	As per IS: 15683, Fire rating should be for Class A:6A and Class B:183B
23	EN Fire rating	As per EN 3-7, Fire rating should be for Class A:27A and Class B:183B
24	Applicable on Class	Applicable on Class A, B, C and electrically started Fire
25	Certification	The current and valid BIS certification IS 15683:2018 needs to be submitted along with the offer
		The Product should be certified by any EN notified body as per EN 3-7, EN 3-8, EN 3-9
		Firm shall submit the product certificate from an EN notified body
		Dry Chemical powder used as extinguishing agent should be Mono Ammonium Phosphate (MAP) 90% concentration conforming to IS 14609:1999. OEM will produce supplier certificate
		The product should be EN PED Approved and CE marked
		The extinguisher should be pressurized using high grade Dry Nitrogen as per IS 1747 standard. OEM declaration should be submitted
		The firm should submit the product performance test report from NABL accredited Lab as per IS 15683

**General Manager (Elect)**  
**EHT (O&M) Circle,**  
**Berhampur.**

**SECTION-V**

**DETAILED DATA SHEET TO BE FURNISHED BY THE TENDERERS.**

- |     |  |                         |
|-----|--|-------------------------|
| 1.  | Name of the suppliers with detailed postal address & Phone No. :   |                         |
| 2.  | Earnest money deposited vide Bank Draft No. and Date/<br>Cash receipt No. & Date :   |                         |
| 3.  | Xerox copy of GST Regd. Certificate:   | Furnished/Not furnished |
| 4.  | Xerox copy of up-to date ITCC.   | Furnished/Not furnished |
| 5.  | Xerox copy of PAN No.  | Furnished/Not furnished |
| 6.  | Agreed to furnish contract Security Deposit :  | Yes/No                  |
| 7.  | Agreed to accept payment terms as per Tender Specification:  | Yes/No                  |
| 8.  | Agreed to adhere completion of work as per the contract:   | Yes/No                  |
| 9.  | Agreed to accept penalty clause as per the tender:   | Yes/No                  |
| 10. | Attach past experience certificate for the similar jobs in OSEB/GRIDCO /OPTCL or any other PSU:                                    | Yes/No                  |
| 11. | Agreed to keep validity of the offer 180 (one eighty) days form the date of tender opening without any variation in tender clause: | Yes/No                  |
| 12. | Xerox copy of PAN card furnished :   | Yes/No                  |
| 13. | Xerox copy of GST registration certificate furnished :   | Yes/No                  |
| 14. | Date of submission of tender: Dated.   |                         |

Date :

Place:

Signature of the Tenderer with seal

**SECTION-VI**

**DETAILED SPECIFICATION SHEET TO BE FURNISHED BY THE TENDERERS**

**N.B: Tenderers has to fill the following information through online**

1. Name of the suppliers with  
Detailed postal address & Phone No.:
2. IS Rating
3. EN Rating
4. NABL Accredited Lab Test : Yes/No
5. Manufacturer / Supplier
6. Colour
7. Make of Fire Extinguisher

**N.B.: -TENDERER HAS TO FILL TECHNICAL SPECIFICATION ONLINE IN TECHNICAL BID.**

Date:

Signature of the Tenderer with Seal

Place:

**SECTION-VII (PRICE SCHEDULE)**

**FORMAT OF TENDER BID WITH SPECIFICATION FOR  
TENDER CALL NOTICE No.BAM-11/2019-20**

**N.B.:- Tenderers has to fill the price through online in (EXCEL FORMAT)**

SI No.	Name of the Division	Name of the Circle	Description of work	Unit	Qty.	Rate per Unit	Amount in Rs.
1	E.H.T. (O&M) Division, Berhampur	EHT (O&M) Circle, Berhampur	Trolley mounted Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 50 litre capacity as per specification (attached)	No.	1		0.00
			Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 9 litre capacity as per specification (attached)	No.	4		0.00
			Supply of ABC Dry chemical powder type 6 Kg capacity stored pressure Fire Extinguisher as per specification (attached)	No.	9		0.00
			CO2 type Fire Extinguisher of 4.5kg capacity having Aluminium container as per specification (attached)	No.	9		0.00
						TOTAL	0.00
						<u>GST@18%</u>	0.00
						<b>Grand Total:</b>	<b>0.00</b>

Lot	SI No.	Name of the Division	Name of the Circle	Description of work	Unit	Qty.	Rate per Unit	Amount in Rs.
2	1	E.H.T. (O&M) Division, CHATRAPUR	EHT (O&M) Circle, Berhampur	Trolley mounted Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 50 litre capacity as per specification (attached)	No.	1		0.00
				Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 9 litre capacity as per specification (attached)	No.	4		0.00
				Supply of ABC Dry chemical powder type 6 Kg capacity stored pressure Fire Extinguisher as per specification (attached)	No.	12		0.00
				CO2 type Fire Extinguisher of 4.5kg capacity having Aluminium container as per specification (attached)	No.	10		0.00
							TOTAL	0.00
							<u>GST@18%</u>	0.00
							<b>Grand Total:</b>	<b>0.00</b>

**SECTION-VIII**

**[LIST OF ANNEXURES]**

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

1	Declaration form	ANNEXURE-I
2	Abstract of terms and conditions to accompany (Available In excel Sheet)	ANNEXURE-II
3	Bank Guarantee Format	ANNEXURE-III

**ANNEXURE - I**  
**DECLARATION FORM**

To,

The General Manager (Elect)  
EHT (O&M) Circle, OPTCL, Berhampur

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 supply the materials / equipment covered therein complete in all respects as per the specification and General conditions, at the rates, entered in the excel format price bid schedule of prices in the Tender-wizard.
2. \* I / We hereby undertake to have the materials/equipment delivered within the time specified in the Tender.
3. \* I / We hereby guarantee the technical particulars given in the Tender supported with necessary reports from concerned authorities.
4. \* I/We certify to have submitted the bid electronically by remitting \*online payment /D.D./ remitting the cost of tender, herewith and this has been acknowledged by your letter / receipt No. \_\_\_\_\_  
Dated \_\_\_\_\_
5. In the event of Tender, being decided in \*my/our favour, \* I/We agree to furnish the Composite B.G. in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to \*me/us as per clause-22 of section-III 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 \_\_\_\_\_, 20\_\_

Yours faithfully,

Signature of the Tenderer  
with seal of the company

[ This form should be dully filled in by the tenderer and uploaded at the time of submission of tender.]

**\* (Strikeout whichever is not applicable).**

## ANNEXURE-II

**N.B.:- Tenderers has to fill the abstract of terms and conditions to accompany  
Section-II of Part-I through online in (EXCEL FORMAT)**

## ANNEXURE-III

### PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this \_\_\_\_\_ day of \_\_\_\_\_  
20\_\_ by us the \_\_\_\_\_ Bank at \_\_\_\_\_

P.O. \_\_\_\_\_ P.S. \_\_\_\_\_

District \_\_\_\_\_ State \_\_\_\_\_

1. WHEREAS the ODISHA POWER TRANSMISSION CORPORATION LTD, a body corporate constituted under the Electricity Act, 2003 [hereinafter called "the OPTCL" which shall include its successors and assigns has placed orders No. \_\_\_\_\_ Date \_\_\_\_\_ [hereinafter called "The Agreement"] on M/s. \_\_\_\_\_ [hereinafter called "The Supplier"] which shall include its successors & assigns for supply of materials.

AND WHERE AS the supplier has agreed to supply materials to the OPTCL in terms of the said agreement AND

WHEREAS the OPTCL has agreed [1] to exempt the supplier from making payment of Security [2] to release 100% payment of the cost of materials as per the said agreement and [3] to exempt from performance guarantee on furnishing by the Supplier to the OPTCL, a Composite bank Guarantee of the value of 10 % [ten percent] of the contract price of the said agreement.

NOW THEREFORE, in consideration of the OPTCL having agreed [1] to exempt the Supplier from making payment of Security [2] releasing 100% payment to the Supplier and [3] to exempt from furnishing performance guarantee in terms of the said agreement as aforesaid, we, the \_\_\_\_\_ [Bank] [hereinafter referred to as 'the Bank'] do hereby undertake to pay to the OPTCL an amount not exceeding Rs. \_\_\_\_\_ [Rupees \_\_\_\_\_] against any loss or damage caused to or suffered by or would be caused to or suffered by the OPTCL by reason of any breach by the said Supplier [s] of any of the terms or conditions contained, in the said agreement.

2. We the ( \_\_\_\_\_ Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from the OPTCL stating that the amount claimed is due by way of loss or damage caused to or suffered by the OPTCL by reason of any breach by the said Supplier [s] of any of the terms or conditions, contained in the said agreement or by reason of the supplier's failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ [Rupees \_\_\_\_\_]

3. We the \_\_\_\_\_ Bank} also undertake to pay to the OPTCL any money so demanded notwithstanding any dispute or disputes raised by the supplier [s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Supplier [s] shall have no claim against us for making such payment.

4. We, ( \_\_\_\_\_ Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to do so enforceable till all the dues of the

OPTCL under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Chief Managing Director, ODISHA POWER TRANSMISSION CORPORATION LTD. certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Supplier [s] and accordingly discharges this Guarantee.

Unless a demand or claim under this guarantee is made on us in writing on or before the [Date\_\_\_\_\_], we shall be discharged from all liability under this guarantee thereafter.

5. We,(\_\_\_\_\_Bank) further agree that the OPTCL shall have the full liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Supplier [s] and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said supplier [s] or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier [s] or by any such matter or thing whatsoever which under the law relating to sureties would but these provisions have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the name , style and constitution of the Bank and supplier [s].
7. We,[\_\_\_\_\_Bank] lastly undertake not to revoke this guarantee during its currency except with the previous consent of the OPTCL in writing.
8. We the \_\_\_\_\_ Bank further agree that this guarantee shall also be irrevocable at our place of business at Jajpur Road ( indicate the name of the branch) in the state of ODISHA.

Not with standing anything contained herein.

1. Our liability under this bank guarantee shall not exceed Rs.\_\_\_\_\_ ( Rupees\_\_\_\_\_).
2. The bank guarantee shall be valid up to dt.\_\_\_\_\_.
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only & only if you serve upon us at \_\_\_\_\_ branch at Jajpur Road a written claim or demand on or before dt \_\_\_\_\_.

Dated \_\_\_\_\_ Day of \_\_\_\_\_

For \_\_\_\_\_  
[Indicate the name of Bank]

Witness (Signature, names & address)