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**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**

**TENDER SPECIFICATION FOR TENDER CALL NOTICE No. 07/2019-20
FOR**

**SUPPLY OF DIFFERENT TYPE OF FIRE EXTINGUISHERS REQUIRED FOR GRID SUB-
STATIONS, ASKA & PHULBANI UNDER EHT (O&M) DIVISION, BHANJANAGAR**

**Cost of Tender Paper Rs. 6,000/- + 12 % GST=Rs.6,720/-
(Rupees Six Thousand Seven Hundred Twenty) Only**

ISSUED TO:-

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(A Government of Odisha Undertaking)
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PO: ENGINEERING SCHOOL, DIST: GANJAM-760010
FAX/☎: 0680-2291905, ☎0680-2291904

NOTICE INVITING TENDER

Advt. No. 07/2019-20

For and on behalf of OPTCL sealed tenders are invited from Manufacturers/ Suppliers having Authorized Dealership Certificate with valid I.T. PAN, GST Registration Certificate for supply of different capacity & type of fire extinguishers required for Grid Sub-Stations, Aska & Phulbani under EHT (O&M) Division, Bhanjanagar.

Commencement of Sale of Tender Paper: - From Dated 26.11.2019 to Dated 10.12.2019 up to 5.00 PM (GST Registration No. is to be produced at the time of purchase of Tender Specification).

Last Date of Submission of Tender Paper:- Dated 11.12.2019 up to 02.00 PM.

Date of Opening of Tender Paper:- Dated 11.12.2019 at 3.00 PM.

Cost of Tender Paper:- Rs.6,000+ GST @ 12%= Rs.6,720/-.

For details please visit our website www.optcl.co.in

Corrigendum if any will be published in the website only.

General Manager (Elect.)



**TENDER SPECIFICATION FOR TENDER CALL
NOTICE No. 07/2019-20
OF EHT (O & M) CIRCLE, BERHAMPUR
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9.	COST OF TENDER PAPER (Non-refundable)	Rs. 6,000/- + 12 % GST = Rs.6,720/- (Rupees Six Thousand Seven Hundred Twenty) Only by Cash/ Bank Draft drawn in favour of General Manager, EHT (O & M) Circle, Berhampur payable at Berhampur, Odisha.
10.	E.M.D	Bank draft drawn in favour of General Manager, EHT (O & M) Circle, Berhampur payable at Berhampur, Odisha.
11.	SALE OF TENDER PAPER	From Dated. 26.11.2019 to Dated. 10.12.2019. (During office hours) available in the office of the General Manager, EHT (O & M) Circle, Berhampur
12.	LAST DATE OF RECEIPT OF TENDER PAPER	Dated. 11.12.2019 up to 02.00 PM.
13.	DATE & TIME OF OPENING OF TENDER	Dated. 11.12.2019 at 03.00 P.M



NOTICE INVITING TENDER
ODISHA POWER TRANSMISSION CORPORATION LTD.,
REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022,
ODISHA, INDIA.
CIN: U40102OR2004SGC007553

TENDER NOTICE NO- 07/2019-20

Sl. No	Tender Specification No.	Location Details.	INDIAN RUPEES			Last date of submission & Date of opening of Tender.
			Earnest Money Deposit . In Rs.	Cost of Tender Spec. Document	Estimate Value in Rs.	
1	07/2019-20	Supply of different capacity & type of fire extinguishers required for Grid Sub-Stations, Aska & Phulbani under EHT (O&M) Division, Bhanjanagar	9,885/-	6,720/-	9,88,425/-	up to dt-11.12.2019(02.00 PM) and 11.12.2019 at 03.00PM

SECTION - I
INSTRUCTION TO BIDDERS

The Bidders must read in detail the “Instruction to Bidders” and “General Terms and Conditions” before filling the tender documents.

1. TENDERS:

- A) Bidders must submit their bids with original signature. Only those who have purchased the Tender specification from this office can submit their Tender. Tenders submitted by other means will be rejected.**On-line downloaded Tender Specification Documents from our OPTCL website shall not be accepted.**

Tender must be submitted in sealed cover subscribed as “**Tender Call Notice No. 07/2019-20 for supply of different capacity & type of fire extinguishers required for Grid Sub-Stations, Aska & Phulbani under EHT (O&M) Division, Bhanjanagar**” on or before Dated 11.12.2019(Up to 2.00PM) for opening on 11.12.2019 (at 3.00PM) and addressed to the General Manager, EHT (O & M) Circle, Berhampur.

- B) Tender shall be submitted either in person or by registered post & any other means of delivery shall not be accepted. Detailed postal address with PIN No., Phone / Fax/Email of bidder must be mentioned in the application requesting for tender document and on the tender bid. The authority is not responsible for receipt of tender after due date due to postal delay or any other reasons. Tenders received after due date due to postal delay or any other reason will not considered. **The Tenderer who wants to receive the tender paper by post have to deposit additional Rs.100.00 along with the tender paper cost.**
- C) The bidder is to deposit EMD in shape of Bank Draft drawn in favour of General Manager, EHT (O & M) Circle, Berhampur. The EMD of successful Tenderers will be refunded after completion of Guarantee period on written request. The EMD of all unsuccessful Tenderers shall be refunded on written request after finalization of Tender. No interest shall be paid on EMD. No adjustment towards EMD shall be permitted against outstanding amount, if any, remained with the OPTCL.

2. EXPERIENCE:

The bidders has to submit the copy of past experience if any regarding supply of similar materials to GRIDCO/ OPTCL or any other state or central PSUs.

3. FORFEITURE OF EMD:

- A) In the event the successful Tenderer fails to supply the materials either partly or fully as per the technical specification, the EMD so deposited shall be forfeited.
- B) Any deviation from the Terms and Conditions of the contract the EMD so deposited shall be forfeited without any notice.

4. INFORMATION ON COMPETITORS:

Bidders have right to know information on competitors only at the time of opening of the bids. No further information on competitors shall be provided at any other point / stage of the tender

without prejudice to Right to Information Act – 2005.

5. OPENING OF TENDERS:

- A) Copy of PAN Card/ GST Registration No. must be enclosed with the Tender bids.
- B) Bidders themselves or their authorized representatives limited to one person only (possessing authorization letter in original) shall be allowed to attend opening event of the Tender.
- 6. The purchaser may alter the quantities of materials at the time of placing orders. Orders may also be split up among more than one Tenderer if necessary. **The purchaser reserves the right to reject the lowest or any other Tender or all Tenders without assigning any reason what so ever.**
- 7. Tender should be prepared clearly and without any overwriting and corrections. Erasures and other changes shall bear the dated initial of the person signing the Tender.
- 8. 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. For evaluation, the price mentioned in words shall be taken if there is any difference in figure and word in the price bid.

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

SECTION -II
GENERAL TERMS AND CONDITIONS

1. **Scope of contract:** The scope of contract shall be to delivered materials at destination in accordance with the enclosed technical specification and schedule of requirement (Section-III).
2. **Manner of execution:** All materials should be supplied under the contract shall confirm to the latest publication of relevant IS specification.
3. **Validity:**Tenderers are requested to keep the validity of their offer for a period of 6 months from the date of opening of Tender.
4. **Price:**The price quoted by Tenderer should be firm, F.O.R. destination inclusive of freight, Insurance, Packing, Forwarding charges inclusive discount, if any.
5. **Taxes:** Taxes, if any shall be mentioned extra. The Tenderer may quote rate in respect of different make of materials as per schedule.
6. **Terms of Payment:**
100% of the value of consignment with 100% taxes and duties will be released within thirty days after receipt of materials in full shape& in good condition at destination and detail verification thereof by the consignee subject to availability of Fund from Head office , subject to approval of 10% Composite Bank Guarantee, test certificate and guarantee certificate by this office.
7. **Delivery:**The materials in full quantity shall be delivered within 30 days of receipt of Purchase Order, failing which Purchase Order shall be liable for cancellation with forfeiture of Earnest Money/ Security Deposit. However early delivery shall be preferred.
8. **Penalty:**If the supplier shall fail to deliver the materials within the delivery period as stipulated under Clause No. 7 (Section-II) of this Tender document or any extension granted there to, the purchaser shall recover from the supplier in shape of 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 price. Materials will be deemed to have been delivered only when the material is delivered in full shape. If certain quantity is not delivered in time, the supply will be treated as delayed until such time the undelivered quantity is 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. **EMD:** The Tenderers are requested to deposit EMD in shape of D.D. Drawn in favour of General Manager, EHT (O & M) Circle, Berhampur. The tender without EMD will be liable for rejection. The DD for the EMD should be enclosed along with original tender paper. No interest shall be paid EMD. In case of non-compliance /non response to the correspondence made by this office, the EMD shall be forfeited.

11. Bank Guarantee towards Security Deposit and Performance Guarantee:

- I. The supplier have to deposit Security deposit and performance bank guarantee equal to 10% (Ten percent) of ordered value as security deposit in shape of Bank Draft / Composite Bank Guarantee (Format as per Annexure-IV) drawn in favour of paying officer as mentioned in clause no. 16(Section-II) or the equivalent amount will be deducted from the bill on written request of the supplier. The Security deposit will be released after two months of completion of the guarantee period subject to fulfillment of guarantee stated under Clause No.12 on a receipt of application for this purpose.
- II. No interest shall be paid to the supplier towards the security deposit, deposited by the supplier.

12. Guarantee:The material covered under this contract should be guaranteed for a trouble free and satisfactory performance against any defect in design, materials and workmanship for a Period of at least 30 (Thirty) Months from the date of delivery or 24(Twenty Four) months from the date of use, whichever is earlier. 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. In the event of any breach or default in all or any condition of Purchase Order, Security Deposit will be forfeited. The G.C shall be furnished after supply of materials to the undersigned in triplicate for approval.

13. 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 arises due to loss or damage in transits has to be settled by the supplier. The supplier shall undertake free replacement of materials damage or lost which will be reported by the consignee within 30 Days of the receipt of the materials at destination without waiting for the settlement of the claims with the carriers.

14. Despatch Instruction: The materials should be securely packed and dispatched by Rail/ road Transport to 132/33KV Grid Sub-Station, Aska & phulbani. The cost of transportation will be borne by the supplier.

15. Consignee:The Manager, 132/33KV Grid Sub-Station, Ask & AGM, 132/33KV Grid S/s Phulbani are the consignee as well as verifying officer for their respective contracts.

16. Paying Officer: The DGM, EHT (O&M) Division, Bhanjanagar is the paying officer for this contract.

17. Addition & Alteration: The Authority reserves the right to add or reduce the quantum of materials without assigning any reason thereof.

18. 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.

19. Submission of GST Registration No. & PAN:Clear attested photocopies of PAN, issued by the competent authority, and GST Registration valid on the date of opening of Tender

should be submitted along with the Tender, failing which, the Tender will be rejected. The supplier may be requested to produce original PAN Card & GST Registration Certificate at the time of opening of the Tender. Those who fail to produce the same & found not to be valid on the date of opening the Tender, their Tender should be rejected.

20. Other tender Terms :

- i) We prefer single vendor, who can supply all the tender material to get better after sale service.
- ii) Preference will be given those having past experience in OPTCL for same kind of product as per the tender.

21. Deviation in specification: If any change in the technical parameters equivalent to the above specification may be clearly mentioned separately.

22. Test Certificate: Necessary Manufacturer Certificate / Test Certificate in respect of materials cover under the Purchase Order shall be submitted before the dispatch of materials for approval. Test certificates in respect of material should confirm to relevant IS Specification. The Test Certificate from ISI approved testing laboratory will also be accepted as and when applicable.

23. Submission of proof regarding Manufacturer' s Certificate/Authorised Dealership Certificate, price list of Manufacturers, Past Experience of execution of order, Performance Certificate, Type Test Certificate :

Self attested photocopy of necessary manufacture's certificate; valid authorised dealer certificate & technical literature etc. are to be submitted along with the tender

21. Jurisdiction of Court: Dispute if any, arising against the supply order issued to the supplier shall be filed by either party in any court of law at Berhampur to which the jurisdiction of Odisha High Court extend 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 Odisha.

The Authority reserves the right to reject the notice/ award the contract among any responsive bidders against this Tender or without assigning any reason thereof. All other Terms and Conditions will be governed by OPTCL as per Rules.

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

SECTION - III

TECHNICAL SPECIFICATION FOR SUPPLY OF DIFFERENT TYPES OF FIRE 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 Ltrs. as per DIN EN1866-1:2007
3	Working Pressure	Upto 11 Bars
4	Water cylinder Capacity	50 Ltrs.
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 Ltrs./300 Bars
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 Ltrs. / 300 Bars 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	1. 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 pressurized at ≤ 12 Bars from the water vessel & the other carries pressurized air from the compressed air cylinder to the gun.
23	Nozzle Modes	Jet & Spray
24	Jet - Lancing Distance	15 Mtrs. (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 Ltrs. 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 License	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.Portable (Backpack) 9 Liters 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	Working Pressure	upto 10 Bar
4	Water Cylinder - construction	Non-corrosive Stainless Steel SS-316.
5	Water Cylinder - Working pressure	upto 10 Bars
6	Water Cylinder - Testing pressure	Not less than 1.5 times the working pressure
7	Water Cylinder external paint	The cylinder should be of red colour with powder coating. The paint should confirm to IS:5:2007 Shade 538
8	Safety valve opening pressure	1.5 Times working pressure
9	Back pack harness	<ol style="list-style-type: none"> 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. 2. The system shall be designed ergonomically. 3. Shall provide maximum manoeuvrability to the wearer. 4. The back plate shall be constructed from a strong, carbon composite material 5. Shall be rigid, anti-static and highly resistant to impact, chemicals, flames and high temperatures.
10	Air Bottle Capacity	4.7 Ltrs./300 Bars
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"> 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.
14	Air Bottle - Universal cylinder holder	Shall hold 2 Ltrs. to 6 Ltrs. 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 Bars 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	1. Non corrosive SS metal (dual phase) with external plastic covering, smooth bore, atomizer chamber and mixing chamber. 2. The rating of the high pressure flexible tube shall be minimum 3 times the working pressure.
23	Gun - weight without hose	Should be 1.5 Kg \pm 10%
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	Nozzle Modes	Jet & Spray
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	Turn over from - Jet to spray	Time taken Shall not be more than 1 second with a provision of changeover from Jet to spray mode & vice versa by simple twist of nozzle without disrupting water mist discharge.
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 (Tested for 35 kva)

32	System Test : Electrical Test Certificate - With details of test methods	Tested from ERDA as per EN 3-7:2004+A1:2007 for Dielectric test both with Water + Foam and with Water only, 1) Content - Water & Foam Mode - Jet and Spray 2) Content - Water Mode - Jet and Spray
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	Fire Rating Certificates with standard AFFF 6% foam: For Class A	Minimum 55 A
35	Fire Rating Certificates with standard AFFF 6% Foam: For Class 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

3.ABC Dry Chemical powder Type (MAP 90) 6Kg Capacity Stored Pressure

Sl. No.	Details	Technical Parameters
1	Vessel used in the manufacturing	Should be constructed using Deep Drawn Technology and MIG welding.
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/cm² 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

4. CO₂ Type Fire Extinguisher of 4.5kg Capacity (Aluminium Container)

Sl. No.	Details	Technical Parameters
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.		

N.B: The bidders have to submit the manufacturer's catalogs for verification of the Technical Specifications of the aforesaid types of fire extinguishers.

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

ANNEXURE – I

**DETAILS OF MATERIAL FOR PROCUREMENT OF DIFFERENT TYPE OF FIRE EXTINGUISHERS
REQUIRED FOR GRID S/S, ASKA & PHULBANI UNDER EHT(O&M) DIVISION, BHANJANAGAR**

Sl. No.	Description	Unit	Requirement(in Nos.) for S/S		
			Aska	Phulbani	Total
1	Supply of Trolley mounted Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 50 litre capacity as per specification (attached)	Nos.	1	1	2
2	Supply of Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 9 litre capacity as per specification (attached)	Nos.	1	1	2
3	Supply of ABC Dry chemical powder type 6 Kg capacity stored pressure Fire Extinguisher as per specification (attached)	Nos.	4	3	7
4	Supply of 4.5kg capacity CO2 type Fire Extinguisher having Aluminium container as per specification (attached)	Nos.	2	2	4

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

ANNEXURE - II

**SCHEDULE OF PRICE FORPROCUREMENT OF DIFFERENT TYPE OF FIRE EXTINGUISHERS
REQUIRED FOR GRID S/S, ASKA & PHULBANI UNDER EHT (O&M) DIVISION, BHANJANAGAR**

Sl. No.	Description	Unit	Quantity	Rate in Rs.	Amount in Rs.
1	Trolly mounted Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 50 litre capacity as per specification (attached)	Nos.	2		
2	Water Mist Extinguisher cum CAFS (compressed air foam system) low pressure fire fighting system of 9 litre capacity as per specification (attached)	Nos.	2		
3	Supply of ABC Dry chemical powder type 6 Kg capacity stored pressure Fire Extinguisher as per specification (attached)	Nos.	7		
4	CO2 type Fire Extinguisher of 4.5kg capacity having Aluminium container as per specification (attached)	Nos.	4		
5	Total (1 to 4):-				
6	GST @ 18% on (5):-				
7	Grand Total (5 to 6):-				

Date.

SIGNATURE OF BIDDER WITH SEAL

ANNEXURE-III
DETAIL DATA SHEET TO BE FURNISHED BY THE TENDERER.

To

General Manager (Elect.)
E.H.T. (O&M) Circle, Berhampur

Sub: - Tender Specification No. - _____

Sir,

1. Having examined the above specification together with Tender conditions referred to therein I/We the undersigned hereby offer to supply the materials covered thereon complete 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 to have the materials delivered within the time specified in the Tender.
3. *I/We here 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 (Strike out whichever is not applicable) Cash / Money order / D.D. / remitting the cost of tender, and this has been acknowledged by your letter No. _____ Dated: _____ here with.
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 per Clause – 13 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 _____ 2019

Yours faithfully,

Signature of Tenderer
With Seal of the Company

ANNEXURE-IV

PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this _____ day
of _____ 2019 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][herein after 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 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 fullest 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 invocable at our place of business at Berhampur(indicate the name of the branch) in the state of ODISHA.

Notwithstanding 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 Berhampur written claim or demand on or before dt._____.

Dated _____ Day of _____

For _____

[Indicate the name of Bank]

Witness ((Signature, names & address)

1.

2.

ANNEXURE-V
DETAIL SPECIFICATION SHEET TO BE FURNISHED BY THE TENDERERS

1. Name of the suppliers
with detail 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

Signature of Tenderer
With Seal of the Company