

# ଓଡ଼ିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଓ.

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

**TENDER SPECIFICATION FOR OPEN TENDER CALL NOTICE NO. 24/BBS/2019-20 OF EHT (O&M) CIRCLE, BBSR FOR “SUPPLY, INSTALLATION & COMMISSIONING OF AUTOMATIC PHOTO ELECTRIC FIRE AND SMOKE DETECTOR FOR CONTROL ROOM, EXTENSION CONTROL ROOM, AC/DC ROOM, BATTERY ROOM AND TELECOM ROOM OF 220/132/33 KV GRID SUB-STATION, CHANDAKA UNDER EHT (O&M) DIVISION, BHUBANESWAR”.**

**COST OF TENDER DOCUMENT :**

**Rs. 4,000/-+ 12 % GST =Rs.4,480/-**

Money Receipt No.....

Date:.....

GSTIN:.....

Sd/-

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

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## **TENDER SPECIFICATION FOR TENDER CALL NOTICE NO. 24/BBS/2019-20 OF EHT (O&M) CIRCLE, BHUBANESWAR**

*Price of tender document*

*Rs. 4,000/-+ 12 % GST =Rs.4,480/-*

*(Rupees Four Thousand Four Hundred Eighty) Only*

*By Demand draft to be drawn in favour of  
EHT (O&M) Circle, OPTCL, Bhubaneswar  
payable at Bhubaneswar (Non-Refundable)*

- 1. COMMENCEMENT OF SALE OF TENDER PAPER** *Dt.04/03/2020 (During Office hours.)*
- 2. LAST DATE OF SALE OF TENDER PAPER** *Dt.17/03/2020*
- 3. LAST DATE & TIME OF RECEIPT OF TENDER PAPER** *Dt18/03/2020 Up to 3:00P.M.*
- 4. DATE & TIME OF OPENING OF TECHNO-COMMERCIAL BID** *Dt..19/03/2020 at 11:00A.M.*
- 10. PRICE BID OPENING DATE** *will be intimated latter*

**SECTION-I**  
**INSTRUCTION TO BIDDERS**

1. The bidders must read in detail the “Instruction to Bidder”, “General terms and conditions” and “Technical Specification” before filling the Tender documents. There are five sections in this Tender Specification. ***The following tender bid shall be done in two (2) parts viz. (a) Techno-Commercial Bid (b) Price Bid.***

2. **MODE OF SUBMISSION**

The tender should be submitted in 2 Envelope system.

I). **The Envelope No.1: TECHNICAL BID** will contain the EMD **in the form of DD from any nationalise /Scheduled Bankonly in favour of EHT (O&M) Circle, OPTCL, Bhubaneswar, Payable at Bhubaneswar** and the unconditional acceptance letter on the letter-head in respect of the tender conditions as per proforma available in the tender document. The EMD in any other form shall not be accepted. This envelope No. 1 will also contain the tender document (without Price Bid) duly signed without any conditions. This shall contain all information asked vide condition and Conditional tenders shall be treated as non-responsive and rejected.

II). **The Envelope No.2 :Price BID** will contain the unconditional Price Bid duly signed by authorized signatory.

III). Both the Envelopes shall be sealed separately and shall be marked/written respectively as **Technical Bid** and **Price Bid**. These 2 sealed envelopes shall be submitted in an outer sealed envelope clearly mentioning the name of work for which the tender is offered. The Envelope No. 1 shall be opened on its due date & time in presence of the bidders or their representatives who wish to be present. On verification of the Envelope No.1 contents as detailed above, the envelope no. 2 of qualified bidders will be opened on the date intimated separately. Conditional tenders will be summarily rejected. If the contents/requirements of the envelope No.1 are not found in order, the envelope No.2 shall not be opened and offer of that bidder will be rejected. The rates for the items are to be quoted both in words & figures. The rates in words shall supersede the rates in figures and shall be treated as the final rates quoted. All envelopes / packets shall be individually sealed as well as marked as given below and kept in an outer envelope super-scribed as:

**NAME OF THE WORK-** .....

**OTCN No :** .....

**Due on :**.....

*From (Name of the Company)*

*With address*

3. **CONDITION OF TENDERS:**

- a) Bidders must submit their bids with original signature **in individual page.**
- b) Manufacturers/ Authorized Dealers / Channel partners are only eligible to quote.

Tender must be submitted in sealed envelopes super-scribed as **“SUPPLY, INSTALLATION & COMMISSIONING OF AUTOMATIC PHOTO ELECTRIC FIRE AND SMOKE DETECTOR FOR CONTROL ROOM, EXTENSION CONTROL ROOM, AC/DC ROOM, BATTERY ROOM AND TELECOM ROOM OF 220/132/33 KV GRID SUB-STATION, CHANDAKA UNDER EHT (O&M) DIVISION, BHUBANESWAR”.** against Tender Call Notice No.24/BBS/2019-20 and addressed to General Manager, EHT (O&M) Circle, Bhubaneswar-751024.

- a) The technical bid shall be opened on ...../03/2020 at 11: AM in presence of the bidders or their authorized representative if any.
  - c) Tender shall be submitted either in Person or by Registered post with A.D/Courier service. Any other means of delivery shall not be accepted. Detailed postal address with PIN, phone No./Cell no./ E-mail must be mentioned in the application requesting for Tender document and on the Tender Bid. The Tender submitted in person is to be dropped in the Tender Box. Tenders received after due date and time will not be considered. The Tenderer will not be responsible for receipt of Tender after due date and time for postal delay or any other reasons.
  - d) Conditional offers will not be accepted.
  - e) If the last date of receipt of tender and its opening is declared as a holiday, ***it will be received and opened on the next working day in same time.***
  - f) **Bidders shall quote for all items. Quotation for individual or part items will not be entertained.**
- 4. EARNEST MONEY DEPOSIT (EMD):** The tender must be accompanied by an EMD of **Rs.10,000/-** in shape of Demand Draft **from any nationalise /Scheduled Bank only** to be drawn in favour of ***EHT (O&M) Circle, OPTCL, Bhubaneswar, payable at Bhubaneswar.*** The EMD of successful Bidders will not be adjusted towards security deposit and shall be refunded on written request after receipt of security deposit. The EMD of all unsuccessful bidders shall be refunded on written request after finalization of Tender. No interest shall be paid on E.M.D.
- 5. FORFEITURE OF E.M.D.:**
- a) In the event, the successful tenderer failing to accept the order or supply the materials as per the technical specification EMD so deposited shall be forfeited.
  - b) Any deviation from the terms and conditions of the contract awarded, may also lead to forfeiture of EMD without any notice.
  - c) **The EMD not claimed for refund within a period of one year from the date of issue of purchase / work orders, shall be forfeited.**
- 6. INFORMATION OF 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.
- 7. OPENING OF TENDERS:–**
- a) Copy of up-to-date PAN Card and GST Registration & Manufacturer or Authorized Dealership or Channel Partner Certificate (wherever applicable) should be enclosed with the tender.
  - b) Bidders themselves or their authorized representatives shall be allowed to attend opening event of the tender.
- 8.** The purchaser may alter the quantities of materials at the time of placing orders. Only those who have purchased the tender specification in the name of their firm from this office can submit their tender. Tenders submitted by others will be rejected. The bidders may please note that the Word ‘item’ in the paragraph shall mean the materials/equipment as specified in the ‘Tender Specification’. In case of deviations, the decision of the purchaser shall be final.
- 9. The Tenderer reserves the right to reject any or all of the tenders without assigning any reason there of.**

10. Tenders should be submitted clearly and without any overwriting and corrections. Erasers and other changes shall bear the dated initial of the person signing the tender.
11. 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.
12. For evaluation, the price mentioned in words shall be taken if there is any difference in figure and words in the price bid.
13. **OUTRIGHT REJECTION OF TENDERS:-** The tenders shall be liable for outright rejection if the following have not been complied.
  - a) Bidder should have purchased the relevant tender specification from the office of the General Manager, EHT (O&M) Circle, Bhubaneswar and with enclosed Tax invoice/ Original money receipt of this Office.
  - b) Tender Documents shall be submitted in person or by Registered post with A.D/Courier service which should be received before the opening of tender as specified in the tender call notice.
  - c) Tenders shall not be submitted through E-mail.
  - d) Tenders shall be kept valid for a minimum of **180** days from the date of opening of the tender.
  - e) The tender shall not be conditional.
  - f) Tenders shall be accompanied with clear valid self-attested Xerox copy of PAN No., GST registration Certificate 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.**
  - g) In case of authorized dealer, necessary authorized dealership certificate should be submitted along with the tender duly issued by the manufacturer which should be valid on the date of opening of the tender. The registered suppliers have to mention the name of the manufacturer of the products in their tender.
  - h) Violation of terms and conditions set forth and provided in the tender specification.
  - i) The bidder shall submit the guaranteed technical particulars of the quoted items along with the Type of test & Routine test certificates of the test carried out in any Govt. approved test laboratory.
  - j) The bidder shall submit duly filled up abstract of terms & conditions and bidders information of Section IV in Annexure-I & II

**Sd/-**

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

## SECTION-III

### TECHNICAL SPECIFICATION

#### Panel

<b>Zones Number</b>	Multiple Zones with Maximum Capacity 28 devices of all varieties.
<b>Hardwired Zone Requirements</b>	2.2 to 3.2 k $\Omega$ E.O.L. resistance (max. resistance of wires 220 to 250 $\Omega$ ).
<b>Zone Types</b>	Interior follower, interior, perimeter, perimeter follower, delay 1, delay 2, 24h silent, 24h audible, fire, nonalarm, emergency, gas, flood, temperature and interior /perimeter.
<b>Display</b>	Single line, Backlit 16-character digital display LCD.
<b>Alarm Types</b>	Siren alarm or sounder (internal) alarm,.
<b>Siren Signals</b>	Continuous (intrusion / 24 hours / panic); triple pulse - pause - triple pulse... (fire).
<b>Siren (bell) Timeout</b>	Programmable
<b>Internal Sounder Output</b>	At least 85 dBA at 10 ft (3 m)
<b>Supervision</b>	Programmable time frame for inactivity alert
<b>Data Retrieval</b>	Status, alarm memory, trouble, event log.
<b>Compliance with U.S. Standards</b>	Meets FCC Part 15 and Part 68 requirements. UI1637, UL1635, UL1023, UL985, ULC-S545-02, ULC C1023.
<b>Receiver Type</b>	Super-heterodyne, fixed frequency
<b>Receiver Range</b>	500 to 600 ft (180 m) in open space
<b>Coding</b>	Power Code and/or CodeSecure™
<b>Power Supply</b>	Internal switching power supply 100VAC to 240VAC, 50/60 Hz, 0.5A / 12.5 VDC, 1.6A.
<b>Output Ripple</b>	In between 3% to 5%
<b>Current Drain</b>	Approx. 40 mA standby, 1400 mA at full load and in alarm.
<b>Site External Siren Current (EXT)</b>	450* mA max @ 10.5 VDC minimum when powered by AC & DC (battery).
<b>Site Internal Siren Current (INT)</b>	450* mA max. @ 10.5 VDC minimum when powered by AC & DC (battery)
<b>PGM Output Current</b>	100* mA max.
<b>Wired Detectors (zones 29 &amp; 30) Total (Sum) Current</b>	Should not more than 36* mA.
<b>High Current / Short Circuit Protection</b>	All outputs are protected (automatic reset fuse). * Total Pro Panel output current 550 mA.
<b>Battery recharge time</b>	Maximum 72 to 80 hours
<b>Battery Test</b>	Once every 10 seconds.
<b>Built-in Modem</b>	300 baud, Bell 103 protocol
<b>Data Transfer to Local Computer</b>	Via RS232 serial port Report Destinations: 2 central stations, 4 private telephones
<b>Reporting Format Options</b>	SIA, Pulse 4/2 1900/1400 Hz, Pulse 4/2 1800/2300 Hz, Contact ID, Scancom.
<b>Pulse Rate</b>	10, 20, 33 and 40 pps - programmable
<b>Message to Private Phones</b>	Tone or Voice
<b>Message to Pager</b>	PIN No. • Alarm Type • Zone No.

**Operating Temp. Range** 14°F to 120°F (-10°C to 49°C)  
**Storage Temp. Range** -4°F to 140°F (-20°C to 60°C)  
**Humidity** 85% relative humidity, @ 30°C (86°F)  
**Dimensions** 285 x 215 x 55 mm  
**Weight** 1500 to 1600 gms  
**Approved Make** Visonic or Equivalent  
**Approval** EN Approved

#### **ADAPTER**

**Specification** AC/AC 230 VAC, 50 Hz / 9 VAC, 1A  
**Make** EDC or Equivalent

#### **BATTERY**

**Specification** 7.2 V Nickel Metal rechargeable battery, 1300 mAh.  
**Make** Gold Peak or Equivalent.  
**Warranty** 1 Year

#### **Smoke Detector**

**Cover Range** 50 – 100 cubic meters (1770 – 3530 cubic ft.)  
**Battery type** 3V CR123A  
**Battery Life Expectancy** 5 years for CR123A  
**Weight** 165g (5.8oz)  
**Operating temperature** -10°C to 50°C (14°F to 122°F)  
**Operating environment** Indoor  
**Dimensions** 120 x 58mm (2.3 x 4.7in.)  
**Approved Make** Visonic or Equivalent  
**Approval** EN Approved

#### **BATTERY**

**Specification** 3 Volt CR123A Lithium Battery.  
**Make** Gold Peak or Equivalent.  
**Warranty** 1 Year

#### **Repeater**

**Receiver Type** Super-regenerative.  
**Modulation Type** 100% ASK.  
**PowerCode ID** One of 16,000,000 possible 24-bit codes  
**Power Input Ranges** 13 - 20 VDC, or 11 - 16 VAC, 100 mA min.  
**Backup Battery** 9 V-style rechargeable Ni-Cd or Ni-MH. Battery Backup Duration (with fully charged 120 mA/h battery and 1:1 standby/transmit ratio): 2 hours (315 and 433.92 MHz units)  
**LED indicator** Lights during transmission.  
**Compliance with Standards** Meets FCC Part 15, MPT 1340 and directive 1999/5/EC  
**Operating Temperature** 0°C to 49°C (32° F to 120° F).  
**Dimensions (H x W x D)** 110 x 63 x 25  
**Weight** 73 gms  
**Approved Make** Visonic or Equivalent

#### **ADAPTER**

<b>Specification</b>	AC/DC 12VAC, 1Amp
<b>Make</b>	I Berry or Equivalent
<b>BATTERY</b>	
<b>Specification</b>	9 V rechargeable Ni-Cd or Ni-MH ; 300mAh.
<b>Battery Backup Duration</b>	5 hours (315 and 433.92 MHz units).
<b>Make</b>	Unirose or Equivalent
<b>Warranty</b>	1 Year
<b>Siren</b>	
<b>Siren Type</b>	Piezo, 98dB SPL @ 1m, 1.8-2.3 kHz, sweep frequency 7Hz
<b>Power Supply</b>	Indoor, limited power source, plug-in transformer (supplied with the siren): 230 VAC, 50 Hz / 9 VAC, 700 mA.
<b>Backup Battery</b>	Ni-Metal, 7.2V, 250mAh (small battery pack, supplied with the siren) or 500 mAh (optional large battery pack)
<b>Current Consumption</b>	13 mA ± 10% (standby), 370 mA ± 10% (operation)
<b>Compliance with Standards</b>	EN 50131-1 (class 2), ETSI EN 300 220, FCC Part 15, IP55
<b>Receiver &amp; Transmitter ID Type</b>	24-bit
<b>Strobe Output</b>	Pulsed @ 1.5 sec.
<b>Dimensions (LxWxD)</b>	305 x 192 x 65 mm
<b>Operating Temperature</b>	-20°C to 65°C (-4°F to 149°F)
<b>Weight</b>	940gms
<b>Approved Make</b>	Visonic or Equivalent
<b>Approval</b>	EN Approved

**Sd/-**

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