



# **DEENDAYAL PORT AUTHORITY**



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**Electrical Division**  
**NIRMAN BUILDING,**  
**NEW KANDLA (KUTCH)**  
**PIN CODE: 370 210**

**No. EL/WK/2861**

**Dated: 19.12.2024.**

**To,**  
**M/s. \_\_\_\_\_**

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## **"EXPRESSION OF INTERSET (EOI)"**

Subject: - "Procurement of HT/LT Trailing Cable for ELL Cranes".

**Sir,**

Expression of interest (EOI) are invited to carry out the work "Procurement of HT/LT Trailing Cable for TIL Cranes" as per the Scope of work, Technical specification, Terms & Conditions stipulated below.

The Expression of interest (EOI) along with Schedule-B should reach this office of undersigned on or before 30/12/2024 at 14.30hrs or scanned copy of scanned offer also accepted on e-mail [see@deendayalport.gov.in](mailto:see@deendayalport.gov.in) which shall be opened on the same day.

There is no financial commitment on either side at this stage.

Yours faithfully,

**Sd/-**  
Superintending Engineer (E)  
Deendayal Port Authority

## **SCOPE OF WORK**

1. The scope of Supply Material at main Store Kandla DPA .
2. All resources for loading at works & unloading at DPA store will remain within the scope of the contractor like crane, hydra truck, trailer etc.

1. **Technical Specification no. 1:**

Supply of 3C X 25 + 3C X 16/3 sqmm, 11KV(E) Grade EPR insulated flexible round trailing cable as per IS:9968/II/2002 Power Cores 3C X 25 Sq. mm., flexible annealed tinned copper conductor (Class-5 to IS: 8130/1984), conductor screened with black extd, semiconducting compound, EPR (Type-IE3 to IS:6380/1984) insulated insulation screened with black extd. Semiconducting compound followed by composite braiding (ATC wires & Nylon yarns) core identification by open spiral colored PC tapes (Red, Yellow & Blue). Conductor composed of electrolytic Grade Annealed Tinned Copper (Class 5 to IS: 8130/84) covered with black extd. Semiconducting compound, Core identification by open spiral colored PC tapes (Green) 3 power cables laid up suitably with 3 Split Earth cores in the outer interstice, binder taped (if required), Inner sheathed with HOFR PCP (Type SE3 to IS: 6380/84) re-enforced with open braid of textile material & overall sheathed with HD HOFR PCP (Type SE4 to IS: 6380/84).

<b><u>TECHNICAL PARTICULARS</u></b>		
<b>Sr. no.</b>	<b>Particulars</b>	<b>3C x 25 mm<sup>2</sup> + 3C x 16/3 mm<sup>2</sup></b>
<b>1.</b>	Voltage grade:	11 KV (Earthed) suitable for 11 KV system
<b>2</b>	Applicable standard:	Generally to IS: 9968/II/2002.
<b>3</b>	Permissible voltage variation:	+/- 10%.
<b>4</b>	Permissible frequency variation:	+/- 5%.
<b>5</b>	Material:	Electrolytic Grade Annealed Tinned Copper Class 5 to IS: 8130/84.
<b>6</b>	Nom no of wires/Nom Dia of each wire:	Power cores 196 No/0.4 mm.
<b>7</b>	Max DC Resistance at 20°C:	Power cores 0.795, Split Earth (Combined together) 1.24 ohm/Km
<b>8</b>	Conducting Screening material:	Extruded semiconducting compound.
<b>9</b>	Minimum thickness:	0.5mm
<b>10</b>	Insulation material & type:	EPR Type IE3 to IS: 6380/84.
<b>11</b>	Nominal Thickness:	Power cores 4mm
<b>12</b>	Core Identification:	Shall be done by open spiral colored PC tape(Colour Red, Yellow, Blue & Green)
<b>13</b>	Insulation screening material:	Extruded Semi-conducting compound & composite braiding of ATC & Nylon yarn
<b>14</b>	Minimum thickness of non-metallic screening:	0.5.
<b>15</b>	Coverage & Minimum filling factor for metallic screening:	Minimum 75% coverage & minimum F.F:0.57
<b>16</b>	Laying up:	Power cores shall be laid with split Earth cores in the interstices & Binder taped

<b>17</b>	Inner Sheath Material & type:	Black HOFR PCP (Type SE3 to IS: 6380/84).
<b>18</b>	Outer Sheath Material & type:	Black HD HOFR RCP 9 (Type SE4 to IS: 6380/84).
<b>19</b>	Approx overall Dia of finished cable:	57mm.
<b>20</b>	Approx weight of finished cable:	4250 kg/km.
<b>21</b>	Continuous current rating at an ambient temp 40° C:	86 amp.
<b>22</b>	Short circuit rating for 1 second:	3.58 KA.
<b>23</b>	Max permissible conductor temperature during continuous operation:	90°C.
<b>24</b>	Max permissible conductor temperature during short circuit conditions:	250°C
<b>25</b>	Packing in wooden drum with 200 Mtrs. length +/- 5%	Qty. 1000 Mtr.
<b>26</b>	MAKE:	NICCO/UNISTAR/GLOSTER/CCI/POLYCAB /INCAB/HAVELLS

### **Technical Specification no. 2:**

Supply of 3.5C X 240 + 3C X 120/3 sq. mm., 1.1KV Grade EPR insulated flexible cable as per IS: 9968/II/2002 Power Cores- 3.5C X 240 sq. mm, flexible annealed tinned copper conductor (Class-5 to IS: 8130/1984), Polyester taped, EPR insulated (Type-IE2 to IS:6380/1984) cores identified by coloured PC tape or coloured insulation (Colour Red, Yellow & Blue).

Conductor composed of Electrolytic Grade Annealed Tinned copper (Class 5 to IS: 8130/84) Polyester taped cores covered with elastomeric compound & Cores identified by coloured compound or coloured PC tape(colour Green) 3 power cables laid up suitably with 3 split Earth cores in the outer interstice, binder taped (if required), Inner sheathed with HOFR PCP (Type SE3 to IS: 6380/84) re-enforced with open braid of textile material & overall sheathed with HD HOFR PCP (Type SE4 to IS:6380/84).

<b><u>TECHNICAL PARTICULARS</u></b>		
<b>Sr. no.</b>	<b>Particulars</b>	<b>3.5C X 240 + 3C X 120/3 mm<sup>2</sup></b>
<b>1.</b>	Voltage grade:	11 KV (Earthed) suitable for 11 KV system
<b>2</b>	Applicable standard:	Generally to IS: 9968/I/88.
<b>3</b>	Permissible voltage variation:	+/- 10%.
<b>4</b>	Permissible frequency variation:	+/- 5%.
<b>5</b>	Material:	Electrolytic Grade Annealed Tinned Copper Class 5 to IS: 8130/84.
<b>6</b>	Max DC Resistance at 20°C:	Power Cores 0.0817, Split Earth (Combined together) 0.164 ohm/km
<b>7</b>	Conducting Screening material:	As per standard IS.

<b>8</b>	Insulation material & type:	EPR type IE2 to IS: 6380/84.
<b>9</b>	Nominal Thickness:	Power cores 2.4mm
<b>10</b>	Core identification:	Shall be done by coloured PC tape or coloured insulation (Colour Red, Yellow, and Blue & Green).
<b>11</b>	Inner Sheath Material & type:	Black HOFR RCP (Type SE3 to IS: 6380/84).
<b>12</b>	Minimum Thickness:	2.8 mm
<b>13</b>	Outer Sheath Material & type:	Black HD HOFR RCP (Type SE4 to IS: 6380/84).
<b>14</b>	Approx overall Dia of finished cable:	76 mm.
<b>15</b>	Approx Weight of finished cable:	12222 kg/km
<b>16</b>	Continuous current rating at an ambient temp 40°C:	359amps
<b>17</b>	Short circuit rating for 1 second:	3.58KA.
<b>18</b>	Max permissible conductor temperature during continuous operation:	90°C.
<b>19</b>	Max permissible conductor temperature during short circuit conditions:	250°C.
<b>20</b>	Packing in wooden drum with 200 Mtrs length +/- 5%.	Qty. 1500 Mtrs.
<b>21</b>	MAKE:	NICCO/UNISTAR/GLOSTER/CCI/POLYCAB/IN CAB/HAVELLS

The cable should be got approved from Engineer-in-Charge before supply at site by the successful bidder. The bidder shall submit type test report and Acceptance & Routine test report.

Signature & Seal of Contractor

**Sd/-**

Superintending Engineer (E)  
Deendayal Port Authority

**Schedule - B**

Sub: - "Procurement of HT/LT Trailing Cable for ELL Cranes".

Sr. No.	Description Of Material	Qty	Unit	Rate (Rs.)		Amount
				In Figure	In Words	
1	Supply of 3C X 25 sq. mm + 3C X 16/3 sqmm, 11KV (E) Grade EPR insulated flexible round trailing cable as per IS:9968/II/2002 As per Specification.1	1000	Mtr.			
2	Supply of 3.5C X 240 + 3C X 120/3 sq. mm., 1.1KV Grade EPR insulated flexible cable as per IS: 9968/II/2002 As per Specification.2	1500	Mtr.			
<b>Total Amount: Rs.</b>						

Net Amount in words \_\_\_\_\_

**Note: The rates should be inclusive of all taxes, duties, fees, cess etc. and all incidental charges: but exclusive of GST.****Commercial Conditions**

1. Taxes & Duties: GST Extra @ 18% Income Tax & GST will be deducted at applicable rates.
2. Payment Terms: 100% after completion of complete of each job and on submission of Invoice through RTGS.
3. Delivery: Main Store, DPA at Kandla (Gujarat)
4. Insurance: at the risk & cost of contractor.

Sd/-

Seal & Sign  
Of ContractorSuperintending Engineer (E)  
Deendayal Port Authority