



**MECHANICAL ENGINEERING DEPARTMENT**

**ELECTRICAL DIVISION**

**TENDER NO. EL/AC/2768**

**Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

Executive Engineer (E)  
Electrical Division  
Deendayal Port Authority  
7, Ground Floor,  
Port & Custom Building,  
New Kandla – 370 210.  
Phone No. (02836) 270209/270342  
Fax No. (02836) 270184/271010

**TENDER NOTICE NO. EL/AC/2768**

Name of work	<b>Providing Power supply &amp; Illumination to Oil Jetty No 8 at DPA Kandla</b>												
Estimated cost put to tender	<b>₹ 4,97,81,802.00</b>												
Tender fee :	<p>Rs. 5000 + 900 (GST) Present rate of GST is 18% Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table><tr><th>Level</th><th>Description</th></tr><tr><td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr><tr><td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr><tr><td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr><tr><td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr><tr><td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr></table>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Level	Description												
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Group - 351	Electric power generation, transmission and distribution												
Class – 3510	Electric power generation, transmission and distribution												
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.												
EMD	<p><b>₹ 4,97,818.00</b></p> <p>Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.</p> <p>In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table><tr><th>Level</th><th>Description</th></tr><tr><td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr><tr><td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr></table>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY						
Level	Description												
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												

	Group - 351	Electric power generation, transmission and distribution
	Class - 3510	Electric power generation, transmission and distribution
	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Last date of downloading	02/05/2023 upto 14:00	
Last date and time of submission of E-tender	02/05/2023 upto 14:30 only on website <a href="https://kpt.nprocure.com">https://kpt.nprocure.com</a>	
Pre-bid meeting	13/04/2023 @ 15:00 Hrs. in the Old Board Room, A. O. Building, Gandhidham	
Date and time for opening of E-tender	02/05/2023 at 15:00 hrs	
Downloading websites	<a href="https://kpt.nprocure.com">https://kpt.nprocure.com</a> , <a href="http://www.deendayalport.gov.in">http://www.deendayalport.gov.in</a> as well as <a href="http://www.eprocure.gov.in">http://www.eprocure.gov.in</a> .	
Corrigendum, if any, will be placed on websites only.		

**XEN (E)**  
**Deendayal Port Authority**

**NOTICE INVITING ON LINE TENDER**

<b>Department Name</b>	Mechanical Engineering Department
<b>Circle/ Division</b>	Electrical Division, Port & Customs Building, Ground Floor, New Kandla-(Kutch)-370210
<b>Tender Notice No.</b>	EL/AC/2768
<b>Name of Project</b>	Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla
<b>Name of Work</b>	Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla
<b>Estimated Contract Value (INR)</b>	<b>₹ 4,97,81,802/-</b>
<b>Period of Completion (in Months)</b>	6 months from the date of issue of work order
<b>Bidding Type</b>	Open
<b>Bid Call (Nos.)</b>	One
<b>Tender Currency Type</b>	Single
<b>Tender Currency Settings</b>	Indian Rupee (INR)
<b>Qualifying Criteria:</b>	<p>PRE-QUALIFICATION CRITERIA FOR ELIGIBLE BIDDERS:</p> <p>The Bidders shall fulfill the following pre-qualification criteria:</p> <p>a) Average Annual financial turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be atleast ₹ 149.35 Lakh Certified by Chartered Accountant.</p> <p>b) Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:</p>

- i) Three similar completed works each costing not less than the amount equal to ₹ 199.13 Lakh.  
Or
- ii) Two similar completed works each costing not less than the amount equal to ₹ 248.91 Lakh.  
Or
- iii) One similar completed work costing not less than the amount equal to ₹ 398.25 0Lakh.

c) Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity is more than the total bid value.

The available bid capacity will be calculated as under:

Assessed Available Bid capacity =  $A \times N \times 2 - B$ ,

Where,

"N" = Number of years prescribed for completion of the subject contract.

"A" = Maximum value of works executed in any one year during last seven years (at current price level).

"B" = Value at current price level of existing commitments and on-going works to be completed in the next 'N' years.

The Bidder shall furnish statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works preferably countersigned by the Nodal Office or his nominee-in charge.

**IMPORTANT: a) The value of annual turnover is not to be considered towards "A" as mentioned in the formula.**

**b) The information may be provided as per the format given at Section-X.**

d) In Case the similar work has been issued for any private body, the bidder will be required to produce the tax deducted at source (TDS) certificate indicating the income tax deducted by the client for that work, which will form the basis for assessing the value of completed work.

**IMPORTANT:**

**The particular row in the TDS certificate (Form 16 or Form 26A), which indicates the credit of the payment received from the client, should be highlighted.**

**Along with the TDS certificate, a declaration on the letter head of a Chartered Accountant should be submitted giving details such as the name of bidder, the name of the client for which the bidder has carried out the work, name of work, work order no. and date, gross amount of the payment, net amount received from the client, TDS amount. The statement should be signed by the Chartered Accountant.**

**In case any discrepancies between the TDS (Form 16 or Form 26A) and the declaration given by the Chartered Accountant with regard to payment received from the client, it should be explained.**

(e) The contractor shall have valid electrical contractor's license for carrying out electrical work of nature involved in this

	<p>tender obtained from the competent authority of their respective states without which the tender shall not be accepted. Contractor shall submit certificate and copy of the license in lieu of the same for consideration.</p> <p>(f) Upload duly signed document given at Section-VII towards evidence of site visit. (The bidder who has not physically visited the site and not uploaded document given at Section-VII, will be declared technically disqualified. The date of physical visit of site should be the date invariably prior to date of opening of preliminary bid. The mandatory site visit and uploading of document are exempted if there is declared travel restriction by central/state government).</p> <p style="text-align: center;"><b>Similar works means</b></p> <p>"Supply, installation, testing and commissioning of 11 KV or above overhead and underground electrical network with relevant accessories in Government /semi government /PSUs /Private Sector."</p>												
<b>Joint Venture</b>	<b>Not Allowed</b>												
<b>Rebate</b>	<b>Not applicable</b>												
<b>Bid Document Fee:</b>	<p>Rs. 5000 + 900 (GST) Present rate of GST is 18% Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.</p> <p>In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </tbody> </table>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Level	Description												
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Group - 351	Electric power generation, transmission and distribution												
Class – 3510	Electric power generation, transmission and distribution												
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.												
<b>Bid Document Fee Payable To:</b>	Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.												

<b>Bid Security/ EMD (INR)</b> :	<b>₹ 4,97,818/-</b> Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid. <table border="1" data-bbox="529 594 1360 898"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </tbody> </table>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Level	Description												
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Group - 351	Electric power generation, transmission and distribution												
Class – 3510	Electric power generation, transmission and distribution												
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.												
<b>Bid Security/ EMD (INR)</b> <b>In Favor Of :</b>	Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid. <table border="1" data-bbox="529 1352 1360 1745"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </tbody> </table>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Level	Description												
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY												
Group - 351	Electric power generation, transmission and distribution												
Class – 3510	Electric power generation, transmission and distribution												
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.												
<b>Bid Document Downloading Start Date</b>	<b>30/03/2023</b>												
<b>Bid Document Downloading End Date</b>	<b>02/05/2023 up to 14:00 Hrs.</b>												
<b>Date &amp; Place of Pre Bid Meeting</b>	<b>14/04/2023 @ 15:00 Hrs. at A.O. Building, Gandhidham</b>												
<b>Last Date &amp; Time for Receipt of Bids</b>	<b>02/05/2023 @ 14:30 Hrs.</b>												

Bid Validity Period	120 Days																								
Condition	<p data-bbox="526 149 1369 281">(1) Tender Fee shall be submitted Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.</p> <p data-bbox="526 317 1369 575">In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table data-bbox="526 606 1354 1001"> <tr> <th>Level</th><th>Description</th></tr> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </table> <p data-bbox="526 1008 1369 1140">(2) EMD: Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.</p> <p data-bbox="526 1146 1369 1404">In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table data-bbox="526 1434 1354 1829"> <tr> <th>Level</th><th>Description</th></tr> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </table> <p data-bbox="526 1900 1369 2016">(3) Integrity Pact agreement duly signed by the bidder and two witnesses (witness sign also to be obtained by the bidder) is also required to be submitted in preliminary bid.</p>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Level	Description																								
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Group - 351	Electric power generation, transmission and distribution																								
Class – 3510	Electric power generation, transmission and distribution																								
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.																								
Level	Description																								
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Group - 351	Electric power generation, transmission and distribution																								
Class – 3510	Electric power generation, transmission and distribution																								
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.																								

	Accordingly, offer of those bidders shall only be opened whose EMD , Tender Fee and Integrity pact agreement are received electronically.																								
Remarks	The hard copies should reach to the Electrical Division within 07 days from the date of opening of preliminary and technical bid.																								
Bid Opening Date	Technical Bid will be opened on 27/04/2023 @ 15:15 Hrs. Date of opening of price bid shall be notified after scrutiny and evaluation of Technical Bid.																								
Documents required to be submitted by scanning through online	<p>a. Documents in support of fulfilling Qualifying Criteria as indicated above.</p> <p>b. Tender fees plus GST: Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.</p> <p>website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </tbody> </table> <p>c. EMD- Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the <b>table below only shall become eligible for exemption</b> from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – D</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Division – 35</td><td>ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY</td></tr> <tr> <td>Group - 351</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Class – 3510</td><td>Electric power generation, transmission and distribution</td></tr> <tr> <td>Sub Class - 35109</td><td>Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.</td></tr> </tbody> </table> <p>d) Documents Mentioned in Eligibility Criteria.</p>	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.	Level	Description	Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY	Group - 351	Electric power generation, transmission and distribution	Class – 3510	Electric power generation, transmission and distribution	Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.
Level	Description																								
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Group - 351	Electric power generation, transmission and distribution																								
Class – 3510	Electric power generation, transmission and distribution																								
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.																								
Level	Description																								
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY																								
Group - 351	Electric power generation, transmission and distribution																								
Class – 3510	Electric power generation, transmission and distribution																								
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.																								
Officer- Inviting Bids:	XEN (E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla-(Kutch)-370210																								



Bid Opening Authority :	Executive Engineer (E)
Address:	XEN(E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla-(Kutch)-370210
Contact Details :	XEN (E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla (Kutch)-370210 Phone: 02836-270209, 270342. Fax No. 02836 270184.

**In case, bidders need any clarifications or if training is required to participate in online Tenders, they can contact (n) Procure Support team at following address: -**

(n) Code Solutions-A division of GNFC Ltd.,  
(n)Procure Cell 403, GNFC Info tower, S.G. Road, Bodakdev, Ahmadabad – 380054 (Gujarat)

**Contact Details:**

**Airtel:** +91-79-40007501, 40007512, 40007516, 40007517, 40007525

**BSNL:** +91-79-26854511, 26854512, 26854513 (EXT: 501, 512, 516, 517, 525)

**Reliance:** +91-79-30181689 Fax: +91-79-26857321, 40007533

**E-mail:**[nprocure@gnvfc.net](mailto:nprocure@gnvfc.net)

**TOLL FREE NUMBER:** 1-800-233-1010 (EXT: 501, 512, 516, 517, 525)

**XEN (E)**  
**Deendayal Port Authority**

## **SECTION – I**

### **INSTRUCTION TO BIDDERS**

#### **A. GENERAL**

##### **1. Scope of Bid**

- 1.1 The XEN(Electrical), Deendayal Port Authority invites bids by E-Tendering from the interested eligible bidder for the work as mentioned in the notice inviting online tender. All bids shall be completed and submitted on-line in accordance with instruction to the bidders.
- 1.2 The successful bidder will be expected to complete the works by the intended completion period.

##### **2. Source of funds**

- 2.1 The employer has arranged the funds from the internal resources and will have sufficient funds in India Currency for execution of the work.

##### **3. Eligible Bidders**

- Only eligible bidders fulfilling all the requirements as mentioned in the Notice Inviting Online Tender may participate in the subject Tender. Successful completion of "Similar Works" only shall be considered for evaluation of eligibility criteria.
- 3.1 The invitation for Bids is open to all eligible bidders meeting the eligibility criteria as defined in clause regarding Eligibility Criteria.
- 3.2 All bidders shall fill the forms provided in Section – IV- Part – I "To be submitted by Bidders with their Bids".
- 3.3 Government-owned enterprises may participate if they are legally and financially autonomous, operate under commercial law and are not a dependent agency of the employer subject to fulfilment of Minimum Qualifying criteria.
- 3.4 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the employer.

##### **4. Eligibility Criteria:**

- 4.1 (I) The Bidders shall fulfill the following pre-qualification criteria:

Sr. No	Particulars	Supporting Documents
(a)	Average Annual financial turnover during the last 3 years, ending 31 <sup>st</sup> March of the previous financial year, should be atleast ₹ 149.35 Lakh Certified by Chartered Accountant.	Certificate should be issued by the Chartered Accountant.
(b)	Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following: 1. Three similar completed works each costing not less	(a) A copy of the completion certificate in respect of the successfully completed similar work. (b) A copy of detail work order should also be submitted for which the bidder is submitting the completion certificate. Such completion certificate should be issued on the letter head of the client and invariably reflect the following details:-

	<p>than the amount equal to ₹ 199.13 Lakh.</p> <p style="text-align: center;"><b>Or</b></p> <p>2. Two similar completed works each costing not less than the amount equal to ₹ 248.91 Lakh.</p> <p style="text-align: center;"><b>Or</b></p> <p>3. One similar completed work costing not less than the amount equal to ₹ 398.25 Lakh.</p>	<p>1) Name of Contractor (2) Name of Work (3) No. of work order/agreement and date (4) Contract value (5) Contract period (6) Date of commencement of work (7) Date of completion (8) Value of Work executed during the contract period/original contract period (9) Date of issue of completion certificate.</p> <p>c) In Case the similar work has been issued for any private body, the bidder will be required to produce the tax deducted at source (TDS) certificate indicating the income tax deducted by the client for that work, which will form the basis for assessing the value of completed work.</p> <p><b><u>IMPORTANT:</u></b>  <b><u>The particular row in the TDS certificate (Form 16 or Form 26A), which indicates the credit of the payment received from the client, should be highlighted.</u></b></p> <p><b><u>Along with the TDS certificate, a declaration on the letter head of a Chartered Accountant should be submitted giving details such as the name of bidder, the name of the client for which the bidder has carried out the work, name of work, work order no. and date, gross amount of the payment, net amount received from the client, TDS amount. The statement should be signed by the Chartered Accountant.</u></b></p> <p><b><u>In case any discrepancies between the TDS (Form 16 or Form 26A) and the declaration given by the Chartered Accountant with regard to payment received from the client, it should be explained.</u></b></p> <p>d) Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity is more than the total bid value. The available bid capacity will be calculated as under:  Assessed Available Bid capacity = <math>A \times N \times 2 - B</math>,  Where,  "N" = Number of years prescribed for completion of the subject contract.  "A" = Maximum value of works executed in any one year during last seven years (at current price level).  "B" = Value at current price level of existing commitments and on-going works to be completed in the next 'N' years.  The Bidder shall furnish statements showing the value of existing commitments and on-going</p>
--	--	---

		<p>works as well as the stipulated period of completion remaining for each of the works preferably countersigned by the Nodal Office or his nominee-in charge.</p> <p><b>IMPORTANT: a) The value of annual turnover is not to be considered towards “A” as mentioned in the formula.</b></p> <p><b>b) The information may be provided as per the format given at Section-X.</b></p> <p>(e)The contractor shall have valid electrical contractor's license for carrying out electrical work of nature involved in this tender obtained from the competent authority of their respective states without which the tender shall not be accepted. Contractor shall submit certificate and copy of the license in lieu of the same for consideration.</p> <p>(f)Upload duly signed document given at Section-VII towards evidence of site visit. (The bidder who has not physically visited the site and not uploaded document given at Section-VII, will be declared technically disqualified. The date of physical visit of site should be the date invariably prior to date of opening of preliminary bid. The mandatory site visit and uploading of document are exempted if there is declared travel restriction by central/state government)</p>																								
(c)	Similar works means	“Supply, installation, testing and commissioning of 11 KV or above overhead and underground electrical network with relevant accessories in Government /semi government /PSUs /Private Sector.”																								
(d)	<p>Assessed Available Bid capacity = A x N x 2 –B, Where, “N” = Number of years prescribed for completion of the subject contract. “A” = Maximum value of works executed in any one year during last seven years (at current price level). “B” = Value at current price level of existing commitments and ongoing works to be completed in the next 'N' years. Note: For bringing value of works to current level, multiplying factor to be indicated in tender with reference to escalation based on WPI.</p> <table><tr><td>Financial Year</td><td>2021-22</td><td>2021-20</td><td>2020-19</td><td>2019-18</td><td>2018-17</td><td>2017-16</td><td>2016-15</td></tr><tr><td>Index</td><td>139.4</td><td>123.4</td><td>121.8</td><td>119.8</td><td>114.9</td><td>111.6</td><td>109.7</td></tr><tr><td>Multiplying Factor</td><td>1.0</td><td>1.13</td><td>1.14</td><td>1.16</td><td>1.21</td><td>1.25</td><td>1.27</td></tr></table> <p>The Bidder shall furnish statements showing the value of existing commitments and ongoing works as well as the stipulated period of completion remaining for each of the works preferably countersigned by the Nodal Office or his nominee-in charge.</p> <p><b>IMPORTANT: a) The value of annual turnover is not to be considered towards “A” as mentioned in the formula.</b></p> <p><b>b) The information may be provided as per the format given at Section-X.</b></p>		Financial Year	2021-22	2021-20	2020-19	2019-18	2018-17	2017-16	2016-15	Index	139.4	123.4	121.8	119.8	114.9	111.6	109.7	Multiplying Factor	1.0	1.13	1.14	1.16	1.21	1.25	1.27
Financial Year	2021-22	2021-20	2020-19	2019-18	2018-17	2017-16	2016-15																			
Index	139.4	123.4	121.8	119.8	114.9	111.6	109.7																			
Multiplying Factor	1.0	1.13	1.14	1.16	1.21	1.25	1.27																			

--	--

- 4.2 All bidders shall scan and forward the following information and documents with their bids.
- Copies of original documents defining the constitution or legal status, place of registration, and principal place of business, written power of attorney of the signatory of the Bid to commit the Bidder.
  - Total monetary value of similar works performed for each of the last seven years ending last day of month previous the one in which applications are invited.
  - Experience in works of a similar nature and size for each of the last seven years, and details of works underway or contractually committed, and Employers who may be contacted for further information on those contracts.
  - Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past three years ending 31<sup>st</sup> March of the previous financial year.
  - Duly filled Forms mentioned in Section – IV- Part – I.
  - PAN, Registration with GST, Provident Fund Authorities.
  - Valid Electrical Contractor License issued by respective State.
  - EMD = Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website.

In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the **table below only shall become eligible for exemption** from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.

Level	Description
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY
Group - 351	Electric power generation, transmission and distribution
Class – 3510	Electric power generation, transmission and distribution
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.

- Tender fee = Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the **table below only shall become eligible for exemption** from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.

Level	Description
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY
Group - 351	Electric power generation, transmission and distribution
Class – 3510	Electric power generation, transmission and distribution
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.

- Information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount.
- A certificate by the bidder that they have not been banned / black listed by any govt. Agency.
- Power of attorney (dully accompanied by resolution of Board in case of company).
- Qualifications and experience of key site management and technical personnel proposed for the contract.
- The proposed methodology and program of work, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

- o. The completion certification should invariably mention the reference no. of work order, the date of completion and contract value.
  - p. The copy of the work order should also be submitted for which the bidder is submitting completion certificate.
  - q. In case the similar work has been executed for any private body, the bidder will be required to produce the tax deducted at source (TDS) certificate indicating the income tax deducted by the client for that work, which will form the basis for assessing the value of completed work.
  - r. Bidders should give an undertaking letter duly stating that the documents submitted by them in support of their credentials are genuine and DPA is at liberty to take any action against the bidder if the said documents are found to be non-genuine.
  - s. Bidders should give an undertaking that they will comply to the specifications of the work including terms and conditions in total without any deviation.
- 4.3 Even though the bidder meets the above qualifying criteria, they are subject to be disqualified if they have:
- Made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements: and/or
  - Record of poor performance such as abandoning the works, non – completion of the contract.

## **5. One Bid per Bidder**

- 5.1 Each bidder shall submit only one bid. A bidder who submits more than one Bid will cause all the proposals with the Bidder's participation to be disqualified and the bidder can be disqualified for bidding of any contract with DPA for a period of 03 years.

## **6. Joint Venture: (Not applicable).**

In case of association in the form of consortium or joint venture agreement, the members of the association shall nominate one of the members as "lead partner" for participating in the tender and signing all the documents related therewith up to signing of agreement and execution of all the contractual obligations there after (in case of award of contract). All the partners of the association must also, jointly and severally, be responsible for satisfactory execution and performance of the contract. The firms with at least 26% equity holding each are allowed to jointly meet the legibility criteria.

## **7. Cost of Bidding**

- 7.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid and employer will in no case be responsible and liable for those costs regardless of the conduct or outcome of the bidding process.

## **8. Site Visit**

- 8.1 The Bidder, at his own responsibility and risk is encouraged to visit and examine the site of work and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the works. The costs of visiting the site shall be at the Bidders' own expense.

## **B. Bidding Documents**

### **9. Content of Bidding Documents**

- 9.1 The set of bidding documents comprises the documents listed in the below and addenda issued in accordance with clause 9:  
Invitation for Bids (NIT)

- **Bid Reference No. EL/AC/2768**
- **NIT** : **Invitation for Bids**
- **Section I** : **Instruction to Bidders**
- **Section II** : **General Conditions of Contract**
- **Section III** : **Special Conditions of Contract**
- **Section IV** : **Forms of Bid**
- **Section V** : **Scope of Work & Technical Specifications**

- **Section VI** : **Bill of Quantities (BOQ)**
- **SECTION VII** : **Evidence Towards site visit.**
- **SECTION VIII** : **Approved Make list of electrical items**
- **SECTION IX** : **Format for Work Permit**
- **Section X** : **Format for submitting information for bid capacity**

9.2 The bidding documents shall be downloaded. The documents should be completely filled and submitted through on line E – Tendering process.

9.3 The bidder is expected to examine carefully all instructions, conditions of contract, forms, terms, technical specifications, bill of quantities, in the bid document. Failure to comply with the requirements of the bid document shall be at the bidder's own risk. Bids which are not substantially responsive to the requirements of the tender documents shall be rejected.

## **10. Clarifications of the Bidding Documents**

10.1 A prospective bidder requiring any clarification of the bidding documents may notify the employer in writing. The employer may respond to any request for clarification which are received within seven days prior to date of pre-bid meeting. The clarifications shall be uploaded on <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in).

### **10.2 Pre-Bid meeting**

10.2.1 The bidder or his official representative may attend pre-bid meeting to be held on 13/04/2023 @ 15:00 hrs in the Old Board Room, A.O Building, Gandhidham. The bidders/representative of bidders who wish to attend the Pre-Bid meeting shall furnish the authority letter on the letter head of Bidder, for attending the Pre-Bid Meeting on behalf of bidder at the time of Pre-Bid Meeting.

10.2.2 The purpose of the meeting will be to clarify issues related to work and tender conditions.

10.2.3 Pre – Bid clarifications will be uploaded in <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in) website without disclosing source of enquiry.

10.2.4 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

10.2.5 At any time prior to the deadline for submission of Bids, employer may, for any reason, whether at its own initiative or in response to a clarification sought by any prospective bidder, modify the bidding documents by amendment / addendum.

10.2.6 Those bidders who download the tender document from the website shall be solely responsible to check the web site for the amendment issued in shape of Corrigendum and/or Addendum.

## **11. Language of Bid**

All documents relating to the bid shall be in the English language.

## **12. Documents comprising the Bid**

The bid submitted by the bidder shall comprise the following:

### **A) Technical Bid:**

- i) EMD , Tender Fees and Integrity pact duly signed by bidder and witnesses.
- ii) Qualification information in accordance to clause of **Eligibility Criteria** shall be submitted.

### **B) Financial Bid:**

- (i) Bill of Quantities duly filled and digitally signed by bidder.

## **13. Bid Prices**

13.1 The rates and prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

- 13.2 The prices shall be quoted inclusive of all Taxes, (except GST), Duties, and other incidentals charges like Transportation, Loading, Unloading, Boarding & Lodging, insurance etc. and should remain firm till completion of work.

#### 14. Currencies of Bid and Payment

The unit rates and the prices shall be quoted by the bidder in Indian Rupees only.

#### 15. Bid Validity

- 15.1 Bids shall remain valid for a period of 120 days from the date of opening of the Technical Bid. A bid valid for a shorter period shall be rejected by the employer as Non-responsive.
- 15.2 In exceptional circumstances, prior to expiry of the original time limit, the employer may request the bidders to extend the period of validity for additional period. The request and the bidders' responses shall be made in writing. A bidder may refuse the request for which EMD, if any, will not be forfeited.
- 15.3 A bidder agreeing to the request will not be permitted to modify his bid.

#### 16. Bid Security

##### 16.1. EARNEST MONEY DEPOSIT (EMD) =EARNEST MONEY DEPOSIT (EMD)

The tender shall be accompanied by Earnest Money Deposit of Rs. 4,97,818.00 (Rupees Four Lacs ninety Seven Thousand Eight hundred Eighteen only). The tender not accompanied with EMD shall not be considered & their technical and price bid will be returned un-opened Through on line transfer in PNB bank account no. 2177000100022538 - Deendayal Port Trust - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on (n) procure website. In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification-2008 mentioned in the **table below only shall become eligible for exemption** from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.

Level	Description
Section – D	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY
Division – 35	ELECTRICITY, GAS, STEAM AND AIRCONDITION SUPPLY
Group - 351	Electric power generation, transmission and distribution
Class – 3510	Electric power generation, transmission and distribution
Sub Class - 35109	Collection and distribution of electric energy to households, industrial, commercial and other users n.e.c.

Earnest money in the form of Bank Guarantee will not be accepted under any circumstances.

##### (a) EMD

- (i) The EMD of successful Bidder will be refunded on submission of performance guarantee (in Form 11) as per the tender clause and executing the agreement (in Form 8) as per tender clause. The EMD of unsuccessful bidders other than L1 & L2 be refunded immediately after ranking of Bids. Earnest Money of L2 bidder shall be refunded immediately after entering into agreement with L1 and acceptance of Performance Guarantee from L1.
- (ii) EMD will be refunded Suo-motto without any application from the Bidders.
- (iii) The EMD of successful bidder will be discharged (refunded) after he has signed the Agreement and furnished the required Performance Guarantee.
- (iv) Earnest Money Deposit will not carry any interest.

##### (b) Bid Security i.e. EMD will be forfeited if:

- (i) The bidder withdraws the Bid after Bid opening during the bid validity;
- (ii) The bidder does not accept the correction of the Bid-Price, pursuant to any arithmetic errors;
- (iii) The successful Bidder fails within the specified time limit to
- sign the Agreement or
  - furnish the required performance Guarantee
- (iv) The bidder submits more than one bid

#### 17. Alternative Proposals by Bidders



- 17.1 Conditional offer or Alternative offers will not be considered in the process of tender evaluation.

**18. Format and Signing of Bid**

- 18.1 The Price Bid to be submitted on-line shall be signed digitally by a person or persons duly authorized to sign on behalf the Bidders.

**19. Amendment of Bidding Documents**

- 19.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by using addenda.
- 19.2 Any addendum thus issued shall be part of the bidding documents and shall be communicated in writing or by cable to all the purchasers of the bidding documents. Prospective bidders shall acknowledge the receipt of each addendum by cable to the Employer.
- 19.3 To give prospective bidders reasonable time in which to take an addendum in to account in preparing their bids, the Employer shall extend as necessary the deadline for submission of bids.

**C. Submission of Bids**

**20. Submission of Bids**

Bidders who wish to participate in the tender will have to procure/should have legally valid Digital Certificate, as per Information Technology Act-2000, using which they can sign their electronic bids. The bidders can procure the Digital Certificate from (n) code solutions a division of GNFC Ltd, who are licensed certifying authority by Government of India. All bids should be digitally signed. For details regarding Digital signature certificate and related matters, the bidder may contact the following address:

(n) Code Solutions,  
A Division of GNFC,  
301 GNFC Info tower,  
Bodakdev, Ahmedabad.  
Tel. 91 79 26857316/17/18  
Fax: 91 79 26857321  
Mobile: 9327084190 / 9898589652.

E-mail: [nprocure@gnvfc.net](mailto:nprocure@gnvfc.net).

Bid reference No. EL/AC/2768

Name and address of the bidder.

The accompaniments to the tender documents as described under Clause **4.2** shall be Scanned and submitted On-Line along with Tender documents. **However, the originals/attested hard copies along with tender documents (except Price Bid), signed on bottom of each page in token of acceptance of Tender Conditions** and shall have to be forwarded subsequently so as to reach the office of Executive Engineer (E) within 7 days from the date of opening of preliminary bid & technical bid.

The envelopes shall be addressed to:

(a) Executive Engineer (E)  
Deendayal Port Authority  
Electrical Division,  
Room No. 6,  
Port & Customs Building,  
New Kandla – 370210.  
Gujarat-State.

(b) bear the following identification:

"Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla"

Bid reference No. EL/AC/2768

Name and address of the bidder.

**21. Deadline of Submission of the Bids**

- 21.1 Bids must be received by the employer in On-Line System at websites <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). not later than 02/05/2023 up to 14:30 Hrs.

- 21.2 At the time of submission of the tender document, the Bidder shall give an undertaking that no changes have been made in document. The uploaded version of the Port Tender Document at <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). websites will be treated as authentic tender and if any discrepancy is noticed at any stage between the Port's tender document and the one submitted by the Bidder, the conditions mentioned in the Port's uploaded document on <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). websites shall prevail.
- 21.3 The employer may extend the deadline for submission of bids by issuing an amendment on DPA website as well as on <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). in which case all rights and obligations of the employer and the bidders previously subject to the original deadline will then be subject to the new deadline.
- 21.4 In case of tender documents being downloaded from the web site, at the time of submission of (the hard copy of) the tender document, the tenderer shall give an undertaking that no change have been made in document. Any discrepancy is noticed at any stage between the port's tender document uploaded on <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). and the one submitted by the tenderer, the conditions mentioned in the port's tender document uploaded on <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in). shall prevail. Besides, the tenderer shall be liable for legal action for the lapses.

## **22. Late Bids**

- 22.1 After the deadline of submission of bid, the bids cannot be submitted in the On-Line System.

## **23. Modification and Withdrawal of Bids**

- 23.1 Bidders may modify or withdraw their bids before the deadline of submission of bid or extension if any.
- 23.2 No Bid can be modified after the last date for submission of Bids.
- 23.3 Withdrawal or modification of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity including extension, if any, may result in forfeiture of EMD.

## **D. Bid Opening and Evaluation**

### **24. Bid Opening**

- 24.1 On the due date and time, the employer will first open Preliminary and Technical bids of all bids received including modifications.
- 24.2 In the event of the specified date for Bid opening being declared a holiday by the employer, the Bids will be opened at the appointed time on the next working day at the same time.
- 24.3 If any Bid contains any deviation from the Bid documents and / or if the same does not contain Bid security i.e., EMD and tender fees in the manner prescribed in the Bid documents, then that Bid will be rejected and the Bidder will be informed accordingly.
- 24.4 The bids which are technically qualified, their financial bids will be opened. The date of opening of financial bid will be declared in the <https://kpt.nprocure.com>, [www.deendayalport.gov.in](http://www.deendayalport.gov.in) and [www.eprocure.gov.in](http://www.eprocure.gov.in).
- 24.5 The price bid i.e., BOQ will be opened only those bids qualify technically.

## **25. Clarification of Bids**

- 25.1 To assist in the examination and comparison of Bids, the employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakup of unit rates. The request for clarification and the response shall be in writing, but no change in the price of substance of the Bid shall be sought, offered, or permitted.
- 25.2 No Bidder shall contact the employer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded.

- 25.3 Any effort by the Bidder to influence the employer's bid evaluation, bid comparison or contract award decisions, may result in the rejection of his bid.

**26. Examination of Bids and Determination of Responsiveness**

- 26.1 Prior to detailed evaluation of Bids, the employer will determine whether each Bid
- (a) Has been properly digitally signed,
  - (b) Meets the eligibility criteria defined
  - (c) Is accompanied by the required Bid Securing Declaration Form and tender fees;
  - (d) is responsive to the requirements of the Bidding documents.
  - (e) GST number to be quoted invariable by bidder.
- 26.2 A substantially responsive Technical and Financial Bid is one which conforms to all the terms, conditions and specification of the Bidding documents.
- 26.3 If a Technical Bid is not substantially responsive, it will be rejected by the employer, and may not subsequently be made responsive by correction or withdrawal of the non-confirming deviation or reservation.

**27. Evaluation and Comparison of Bids**

- 27.1 The employer will evaluate and compare only the Bids determined to be responsive.
- 27.2 In evaluating the Bids, the employer will determine for each Bid the evaluated Bid price by adjusting discounts, if any.
- 27.3 If in the opinion of Engineer in Charge, the rate quoted by successful bidder is abnormally high/low compared to the estimated cost of the work, the employer may ask the bidder to produce detailed price analysis for all items of the bill of quantities.

**E. Award of Contract**

**28. Award Criteria**

- The employer will award the work to the bidder whose bid has been evaluated to be techno-commercially responsive and the lowest evaluated amount bid subject to submission of agreement and performance security.
- The employer, if so required, reserves the right to:
- a) Split the work and award the work in favour of more than one firm,
  - b) Award the work separately as supply, execution, Operation & Maintenance /Operation /Maintenance as applicable.

**29. Employer's Right to accept any Bid and to reject any or all.**

Notwithstanding Clause 28, the Employer reserve the right to accept or reject any bid without assigning any reason and to cancel the bidding process and reject all bids, at any time prior to the award of contract, without thereby incurring and liability to the affected bidder or bidders of the grounds for Employer's action.

**30. Letter of Intent:**

The Chief Mechanical Engineer will issue the Letter of Intent (Form No. 7) intimating the successful bidder about the proposed pre-acceptance of tender.

**31. Notification of Award and Signing of Agreement**

- i) The Bidder who's Bid has been accepted will be notified for the award by the employer prior to expiration of the Bid validity period by confirmation in writing. In this letter (hereinafter and in the Conditions of Contract called the "Letter of Intent") the contract amount, completion period of the work, etc. will be mentioned in line with the tender conditions.

- ii) The notification of award will constitute the formation of the Contract subject to the furnishing of a performance security in accordance with the provisions of tender condition.
- iii) The Agreement will be submitted by successful Bidder within 14 days (National Bid) 28 days (Global Bid) of issue of the notification of award (Letter of Intent). The agreement will incorporate all correspondence between the employer and the successful bidder.

### **32. Contract Agreement:**

32.1 The agreement on stamp paper shall be furnished by the Contractor as per the following guidelines within 14 days (National Bid) 28 days (Global Bid) from the date of issue of Letter of Intent.

- i) The successful Bidder will be required to execute an agreement at his expense on Three Hundred Rupees (₹300/-) Non-Judicial Stamp Paper in the proper departmental format (Form 8) for the due and proper fulfilment of the contract within 14 days (national Bid) 28 days (Global bid) from the date of Letter of Intent.

32.2 Pending preparation and execution of the contract agreement as above, the tender submitted by the Contractor together with Chief Mechanical Engineer's letter/fax accepting the tender shall constitute a binding contract between the Board and the Contractor.

32.3 The contract period shall be reckoned from the date of issue of work order to commence the work.

- i) The original agreement as per the format attached with the tender should be executed on a stamp paper of appropriate value (at present ₹ 300/-)
- ii) The Agreement should be submitted in duplicate and the date of execution is to be kept blank.
- iii) Each page of the document is to be signed by the Contractor/ his authorized representative by indicating his full name.
- iv) If the Contractor is a partnership firm, then a copy of the Partnership Deed and in case it is a Company, a copy of Memorandum and Articles of Association along with Registration Certificate is to be submitted.
- v) If the agreement is signed by a Partner/ a Director/ an authorized person of the firm, in such case, a certified true copy of the power of attorney/ letter of authority given by the firm/ company to the signatory of the Contractor firm is to be submitted.
- vi) The entire agreement should be in type written form/ computer printed form.
- vii) Leaving blanks and insertion of some contents of the agreement with hand writing should be avoided.
- viii) All corrections/ additions made in the agreement are to be initialled.

### **33. Performance Security**

1) "Security Deposit" shall consist of Performance Guarantee to be submitted at award of work. Performance Guarantee should be 3% of contract price which should be submitted in form of Bank Guarantee or Demand Draft within (21 days in case of domestic bids and within 28 days in case of global bids) of receipt of latter of Acceptance intent which will be refunded immediately not later than 14 days from completion of contract period.

2) Failure of the successful Bidder to comply with the requirements of above shall constitute sufficient grounds for cancellation of the award of work, forfeiture of the Bid security and/or may be disqualified from bidding for any contract with DPA for a period of three years from the date of notification.

3) The Port Authority will also be at liberty to deduct from performance guarantee or from any sums of money due or that may become due under any contract with the contractor that may become due to the employer. This is without prejudice to the rights of the employer under the terms of the contract. The Bank Guarantee is required to be dispatched by the issuing bank directly to The Employer by Registered AD Post.

4) The performance guarantee will be accepted in the form of bank guarantee if issued by any nationalized/scheduled bank (except co-operative bank) having its branch at Gandhidham.

5) The Port Authority may at their option forfeit the Performance Guarantee cum Security Deposit if the contractor fails to carry out the work or perform or observe the conditions of contract.

6) The Performance Guarantee cum Security Deposit will be released after successful completion of guarantee period.

7) If applicable, the documentary evidence (copy of paid challan in government treasury) of welfare cess @1% of work done or as amended by statutory authority from time to time, paid on final bill shall be submitted before releasing the performance guarantee.

**34. Issue of Work Order (This clause may be read with clause no. 1 of Section-III)**

Work order will be issued indicating the Contract value, completion period etc. after submission of Performance Security Deposit and Contract Agreement on Non-Judicial Stamp Paper by the successful bidder as per Tender Conditions.

**35. Time Schedule**

The Contract shall be effective from the date of issue of Work Order and the work shall be completed within six (06) months from the date of Work Order.

**36. Corrupt or Fraudulent Practices**

36.1 The employer requires that Bidders/Suppliers/Contractors under this contract, observe the highest standard of ethics during the procurement and execution of this contract. In pursuance of this policy, the employer:

- (a) Defines the following for the purpose of these provisions:
  - (i) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
  - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the employer, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the employer of the benefits of free and open competition.
- (b) Will reject a proposal for award of work if he determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- (c) will declare a Bidder ineligible, either indefinitely for a stated period of time, to be awarded a contract/contracts if he at any time determines that the Bidder has engaged in corrupt or fraudulent practices in competing for or in executing, the contract.

**Signature & Seal  
Of Contractor**

**XEN (E)  
Deendayal Port Authority**

## **SECTION – II**

### **GENERAL CONDITIONS OF CONTRACT**

#### **GENERAL CONDITIONS**

**1. Definitions**

In the Contract (as hereinafter defined) the definition of the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:

- a. **“Employer”** means Board of Trustees of Deendayal Port, a body corporate under the Major Port Authorities Act 2021, by notification issued by the Government of India, acting through its Chairman, Dy. Chairman or Chief Mechanical Engineer or any other officers so nominated by the Board.
- b. **“Contractor”** means the person or persons, firm, corporation or company whose tender has been accepted by the employer and includes the Contractor's servants, agents and workers, personal representatives, successors and permitted assigns.
- c. **“Contract”** means and includes Tender Documents, Instructions to Bidders, General Conditions of Contract, Drawings, Specifications, and Schedules etc., any amendments thereto, Bid, Letter of Intent, Contract Agreement and the work order.
- d. **“Contract Price”** means the total sum of money to be paid by the employer to the contractor on timely completion of the contract work as per Contract including payment for extra work, i.e. as per defined and applicable items of the terms of payment, including any taxes, except GST, and duties to be paid to state or central Government.
- e. **“Specifications”** means the specification referred to in the tender documents and any modifications thereof or additions thereto or amendments thereto as may be from time to time be furnished or approved in writing by the employer.
- f. **“Chief Mechanical Engineer”** shall mean the Chief Mechanical Engineer of DEENDAYAL PORT AUTHORITY.
- g. **“Work” or “Works”** shall mean the whole of the plant and materials to be provided and work to be done executed or carried out by the contractor under the contract.
- h. The **“Site”** shall mean the whole of the premises, buildings and grounds in or upon which the system or works is or are to be provided, executed, erected, done or carried out.
- i. The **“Schedule”** shall mean the schedule or Schedules attached to the specifications.
- j. The **“Drawings”** shall mean the drawings, issued with the specification which will ordinarily be identified by being signed by the Chief Mechanical Engineer and any further drawing submitted by the contractor with his tender and duly signed by him and accepted or approved by the Chief Mechanical Engineer and all other drawings supplied or furnished by the contractors or by the Chief Mechanical Engineer in accordance with these contract conditions.
- k. **“Trials” and “Tests”** shall mean such trials and tests as are provided for in these conditions of contract and described in the specification and shall include all other tests to be carried out as per the requirement of the ‘employer’.
- l. **“Approved” or “Approval”** shall mean approval in writing.

- m.** **"Engineer-in-charge/Nodal officer"** shall mean any officer/Engineer authorized by Chief Mechanical Engineer for purpose of this contract.
- n.** **"Day"** are calendar days, **"months"** are calendar months
- o.** **"Equipment"** is the contractor's machinery and vehicles brought temporarily to the site to construct the works.
- p.** **"Material"** are all supplies, including consumables, used by the contractor for incorporation in the works.
- q.** **"Plant"** is any integral part of the works which is to have mechanical, electrical, electronic or chemical or biological function.

**2. Use of Contract Document:**

The Contractor shall not, without prior consent, make use of any document except for the purpose of performing this contract.

**3. Change Orders:**

At any time during the execution of the contract, by a written notice to the Contractor, changes may be made in the general scope of contract. The Engineer In-charge (EIC), with due approval of competent authority, may make any changes in the quality and/or quantity of the work or any part thereof that may, in his opinion, be necessary and for that purpose the Engineer In-charge shall have the power to order the Contractor to do and the Contractor shall do any of the following:

- a. Increase or decrease or split the quantity of work included in the contract,
- b. Omit any such work,
- c. Change the character, quality or kind of any such work,
- d. Change the dimensions of any such work,
- e. Change in Location
- f. Execute additional work of any kind necessary for completion of the work under the contract, and no such change shall in any way vitiate or invalidate the contract but the cost, if any, arising out of all such changes shall be taken into account in ascertaining the total amount of the contract price. Where the rate is available in the contract and the same is applicable to the additional work, in the opinion of the EIC, the cost of the additional work shall be determined as per this available rate. But, if the rate for additional work is not available in the contract, the same shall be determined by the EIC taking into account the market rate and labour cost at the site for similar works and shall be final.
- g. Deviations from the specifications as contained in the tender agreement including the make / model, shall not be accepted. In case of any such deviation, payment shall not be made for that part of the work / item, even if it is meeting the functional requirements and has been accepted by the purchaser. The payment for such portion of the work / item can only be released if the contractor makes good the deviations before the expiry of the warranty period so as to meet the specifications of the tender agreement in all respects.

**4. Resolution of Dispute**

a) The Board and the Contractor shall make every effort to resolve amicably by direct informal negotiations, any disagreement or dispute arising between them in connection with the contract. However, in case of failure of negotiation between the Board and the Contractor, the parties shall refer their present and future disputes relating to the contract itself or arising out of or concerning or in connection with or in consequence of the contract to the Chairman, DPA whose decision shall be final and binding on both the parties. The contract shall be governed by the Indian Contract Act, 1872.

b) Jurisdiction of Courts:

All such disputes, which could not be settled at the intervention of Chairman, DPA, shall be subjected to the jurisdiction of the courts at Gandhidham.

**5. Force Majeure:**

- 5.1 In the event that the Contractor is delayed in performing its obligations in the contract, and such delay is caused by force majeure including war, civil resurrection, strikes (other than the strike solely by the Contractor's men), fire, flood, epidemics, earthquakes, extremely adverse climatic conditions, such delay may be excused and the period of such delay may be added to the time of performance of the obligations without any addition to the contract price.
- 5.2 If a force majeure situation arises, the Contractor shall promptly notify the Board in writing of such condition and the cause thereof, **but not later than 7 days from its occurrence**. Unless otherwise directed by the Board in writing, the Contractor shall continue to perform its obligations under the contract as far as reasonably practicable. The Contractor shall demonstrate to the Board's satisfaction that it has used its best endeavor to avoid or overcome such causes of delay and the parties will mutually agree upon remedies to mitigate or overcome such causes of delay without having any right to any claim on account of such force majeure.
- 5.3 In any other situation, which is beyond the reasonable control of the Contractor in the opinion of the Engineer In-charge, and where the Contractor has promptly notified the Board in writing about such situation, it may be considered as "Force Majeure" situation.

**6. Compliance with Statutes, Regulations:**

The Contractor shall comply in all respects, with all statutes and regulations as may be necessary, including clearance from State/Central Govt. authorities, Pollution Control Boards, labour enforcement and local authorities. The Contractor shall, at all times during the continuance of the contract, so far as it may be necessary, comply with all the existing enactments including Central and State legislation as well as any by-laws of any local authorities regarding labour, particularly the Minimum wages Act, Factories Act, Workmen's Compensation Act, Employees' Provident Fund and Family Pension Fund Act, Employees' State Insurance Act, Contract Labour (Regulation and Abolition) Act, Payment of Wages Act, Maternity Benefit Act, National and Festival Holidays Act, Shop and Establishment Act, The Apprentice Act and keep DPA indemnified against any loss or claim arising out of contravention of the provisions of the above said enactments by the Contractor. The price quoted by the Contractor in the Bill of Quantity shall be deemed to include all expenses whatsoever the Contractor may be required to incur for the compliance with the provisions of the above said legislation. The Contractor shall make necessary arrangements for DPA to witness the payment made by the Contractor to his staff and labour.

**7. Payment Terms:** All payments shall be made in Indian rupees unless specifically mentioned.

- i. 70% of supply item rate against receipt of material at site in good condition after obtaining insurance cover as per tender condition (if TPI appointed then after inspection & certification of the same by Third Party Inspection Agency).
- ii. 20% of supply item rate after completion of erection, installation, testing and commissioning, etc. (if TPI appointed then after inspection & certification of the same by Third Party Inspection Agency)
- iii. 90% of item rate covers only laying/fixing/installation.
- iv. Remaining 10% will be released after successful completion of whole work (if TPI appointed then after inspection & certification of the same by Third Party Inspection Agency).

**NOTE:**

The payment shall be made through RTGS /NEFT and the Contractor should be furnished following details:-

Bank Payment Agreement Form

- a. Name of Party
- b. Account No.



- :- NEFT payment or RTGS payment

I/We hereby declare that the above information furnished by me is correct and DPA is requested to pay my / our dues to this account for this work is concerned.

Signature of the party with the seal

It is hereby informed that the details mentioned by the party is correct as per our records and any payment made by DPA to this account will be accepted either by RTGS/NEFT.  
Signature of the bank manager with the seal.

8.1 The contract shall provide in the joint names of the employer and the contractor, insurance cover from the start date to the end of guarantee period for the following events which are due to the contractor risk:

- a) loss of or damage to the works, plan and materials
- b) loss of or damage to equipment
- c) loss of or damage of property (except the works, plant, materials and equipment) in connection with contract, and
- d) personal injury or death

8.3 Alterations to the terms of insurance shall not be made without the approval of the engineer in charge or his nominee,

8.5 During erection and till the work is completed and satisfactory taken over by the D.P.T after testing the materials shall stand covered by suitable erection insurance also for the value of 110% of the item. The charges for the insurance shall be borne by the Contractor.

The Contractor may claim extension of the time limits in case of;

- i) Changes ordered by DEENDAYAL PORT AUTHORITY.
- ii) In case work is delayed on DPA's Account, i.e. due to delay in approval of drawings, non-availability of site clearance or any other reason, DPA will consider time extension of merit. However, no compensation will be paid to the Contractor if work is delayed on DPA's account. The Contractor shall submit the request for extension, within 30 days of occurrence of such delay, clearly indicating the justification for such extension.
- iii) Force Majeure.
- iv) All the incidents of delay should be entered in the hindrance register which will be base for granting any extension.

**10. Time is the essence of the contract:**

Time is the essence of the contract and the Contractor shall ensure that all the obligations under the contract are completed within the agreed time schedule. The Contractor shall be solely responsible for all the delays including the delays caused by its vendors. In case of delay in progress of the works, DEENDAYAL PORT AUTHORITY reserves the right to withhold the payment, cancel the contract unilaterally or complete the work departmentally.

## **11. Liquidated Damages**

- 11.1 In case of delay in completing the contract, liquidated damages (LD) may be levied at the rate ½% of the contract value per week of delay or part thereof subject to a maximum of 10% of the contract price. The contract price for LD shall be tender price plus taxes and duties.
- 11.2 The employer, if satisfied that the works can be completed by the contractor within a reasonable time after the specified time for completion may allow further extension of time at its discretion with or without the levy of LD. In the event of extension of time at its discretion with LD the employer will be entitled without prejudice to any other right or remedy available in that be half percent ( ½%) of the contract value of the works for each week or part of the week subject to the ceiling 10% of contract value.
- 11.3 The employer, if not satisfied that the works can be completed by the contract, and in the event of failure on the part of the contractor to complete work within further extension of time allowed as aforesaid shall be entitled without prejudice to any other right or remedy available in that behalf to rescind the contract.
- 11.4 The employer, if not satisfied with the progress of the contract and in the event of failure of the contract to recoup the delays in the mutually agreed time frame, shall be entitled to terminate the contract.
- 11.5 In the event of such termination of the contract as described in clauses (11.3) or (11.4) or both, the employer shall be entitled to recover LD up to ten percent (10%) of the contract value and forfeit the security deposit made by the contract besides getting the work completed by other means at the risk and cost of the contractor.
- 11.6 In case part/portion of the work can be commissioned and port operates the portion for commercial purpose, the rate of LD will be restricted to the uncompleted value of work, the maximum LD being on the entire contract value.

## **12. Variations**

### **12.1 Variation in Conditions of Contract:**

In case of any variation in Instructions to Bidders (ITB), General Conditions of Contract (GCC) and the Special Conditions of Contract – if any special conditions of contract shall prevail. But in case of any requirement/condition specified in the Scope of Work, it shall prevail over all other conditions.

### **12.2 Variation in Quantities of Section VI:**

The overall as well as individual variations shall be ± 30% in quantity for which the rate quoted by the bidder and accepted by the employer shall be applicable.

## **13. Acceptance:**

Upon completion of work under this contract, the Board may accept the works and/or services after installation, if defects or shortcomings are not considered essential and, the Contractor agrees to make good the deficiencies in confirmation with this contract. No work shall be accepted before the Contractor clears the site of scraps, unused materials, work shed, equipment and all such materials which were used for execution of the work and not required any more at the work site. Also, the Contractor has to submit all the documents and final "as built" drawings as per the contract agreement without which no work shall be treated as complete.

Completion Certificate shall be issued by the employer after satisfactory completion of work as per tender and after taking trial.

**14. Guarantee:**

- 14.1 The warranty period shall be valid up to six/twelve months (6 months for repairs and 12 months for new works including supplied items) with effect from the date of acceptance of the work and/or services, unless otherwise specified in the scope of work/Special Conditions of Contract (SCC).
- 14.2 The Contractor shall warrant the Board that the goods and services under this contract will comply strictly with the contract, shall be first class in every particular case and, shall be free from defects. The Contractor shall further warrant the Board that all materials, equipment and the supplies furnished by him will be new and fit for their intended purposes.
- 14.3 The Board shall promptly notify the Contractor in writing of any claim arising under this Warranty. Upon receipt of such notice, the Contractor shall promptly repair or replace the defective goods and/or services at no cost to the Board.
- 14.4 If the Contractor, having been notified, fails to rectify the defects in accordance with the contract, the Board may proceed to take such remedial action as may be necessary, at the Contractor's risk and cost.

**15 Taxes:**

**GST Clause:**

The contractor shall quote the price exclusive of GST. The contractor shall quote prevailing GST rate separately, which shall be reimbursed by DPA after ascertaining necessary compliance as per Goods & Service Tax, 2017.

All other duties, taxes, cesses applicable if any, shall be borne by the contractor.

**Deduction of Income-Tax& GST:**

Income-Tax deductions and surcharge & GST + TDS as applicable thereon shall be made good while making payments due to the contractor for carrying out the work and only net amount shall be paid as directed by the Central Board of Direct Taxes, Ministry of Finance, Government of India.

**Tax:** The rates quoted by the contractor shall be deemed to be inclusive of the taxes, duties etc. (except GST) which the contractor will have to pay for the performance of this contract. The employer will perform such duties in regard to the deduction of such taxes at sources as per applicable law.

**16. Deduction:**

- 16.1 Deduction of taxes/income tax at source shall be made from the any bill of the Contractor in accordance with the prevailing rules of Govt.
- 16.2 While performing under the contract, the damages caused by the Contractor or his workers to any of the Port Trust property shall be promptly made good by the Contractor at his own cost. In case the Contractor fails to repair/replace the damage, DEENDAYAL PORT AUTHORITY shall have the right to take steps to make good the damages and all the cost on this account shall be recovered from the bills of the Contractor or any money due to the Contractor from this contract or any other contract or any other transaction. In determination of the damage, the opinion of the Engineer-In-charge (EIC) shall be conclusive.
- 16.3 Any dues arising out of failure on the part of the Contractor to carry out any obligation under the contract shall be deducted from the bills of the Contractor or from any money due to the Contractor from this contract or any other contract.

**17. Subcontracts:**

The Contractor shall not be allowed to engage any sub-contract for all or any part of this contract.

**18. Idle Charges:**

All efforts shall be made for timely supply of materials and/or equipment where it is included in the scope of Deendayal Port. However, the Contractor shall not be entitled to any idle charges for delay in supply of materials and/or equipment by the Port Trust. Further, in case of any delay due to stoppage of work ordered by the Port Trust to avoid interruption in other important activities of Port Trust or any other reason, the Contractor shall not claim any idle charges.

**19. Personal Protective Equipment: (PPE)**

The Contractor shall be solely responsible, at his own cost, for the supply of required PPE to his workers and staff and he shall also ensure the use of PPE such as helmets, nose masks, hand gloves etc. by his staff at site.

**20. Conduct:**

The Contractor, at all times during the tenure of contract, shall take all measures to prevent any unlawful, riotous or disorderly conduct by or amongst his staff at the site and for the preservation of peace and protection of persons and property at the work site as well as in the enactment of the works.

**21. Accident:**

The Contractor shall, within 24 hours of the occurrence of any accident, at or about the work site or in connection with execution of the contract, report such accidents to the Engineer-In-Charge giving all the details in writing. He shall also provide additional information about the accident as requested by the EIC.

**22. Watch and ward:**

During the execution of the contract, it shall be the responsibility of the Contractor to arrange watch and ward of the work including the raw materials, machine/equipment/system used for the work at his own cost till the date of acceptance of the work by DEENDAYAL PORT AUTHORITY.

**23. Termination:**

23.1 The Board may, without any prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the contract in whole or in part:

- (i) if the Contractor fails to execute the work within the period as specified in the contract or any extension granted by the Board;
- (ii) if the Contractor fails to perform any other obligation under the contract and if the contractor does not cure the same after receipt of a notice of default, the nature of default as well as the time within which the default has to be cured by the Contractor.

23.2 In the event of Board's termination of the contract in whole or in part, the Board may execute the remaining work or procure goods similar to those undelivered by the Contractor and the Contractor shall remain liable to the Board for any excess cost for such works or goods and risks, if any.

23.3 The Board will pay the Contractor, for all the items that are completed and ready for delivery, within 30 days after termination. The payment shall be made only after all the aforementioned goods are supplied to and accepted by DEENDAYAL PORT AUTHORITY. The amount so decided by the Engineer-in-Charge in this regard shall be final and binding.

23.4 In case of termination of contract for default by the Contractor, the Board may not permit the Contractor to participate in any of the future tender of DEENDAYAL PORT AUTHORITY for a period decided by DPA.

23.5 The employer may terminate the contract if Contractor causes a fundamental breach of the contract.

23.6 Fundamental breaches of contract include, but shall not be limited to the following :

- a) The contractor stops work for 28 days and the stoppage has not been authorized by the Engineer-in-Charge or his nominee.
- b) The contractor becomes bankrupt.
- c) The contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the contract data and
- d) If the contractor, in the judgment of the employer has engaged in corrupt or fraudulent practices in competing for or in the executing the contract.
- e) For the purpose of this paragraph: "corrupt practice" means the offering, giving receiving or soliciting of anything of value to influence the action or public officials in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the employer, and includes collusive practice. Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the employer of the benefits of free and open competition".
- f) If the contract is terminated the Contractor shall stop work immediately, make the site safe and secure and leave the site as soon as reasonably possible.
- g) Any material lying at site will not be removed without the prior written permission of Engineer in Charge.

**24. Arbitration Clause:**

- (I) Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or any other thing whatsoever, in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders, or to the conditions or otherwise concerning the work or regarding the execution or failure to execute the same whether arising during the progress of the work or after the completion thereof as described hereinafter shall be referred to the Chairman for sole arbitration by himself or by any officer appointed by him.
- (II) It will be no objection to any such appointment that the arbitrator is an employee of the Board or the Government, that he had to deal with the matters to which the contract relates and that in the course of his duties as an employee of the Board of the Government, he had expressed views on all or any of the matters in dispute or of difference.

The arbitrator, who has been dealing with the arbitration case, being transferred or vacating his office or in the event of his death or being unable to act for any reason, the Chairman then holding the office shall arbitrate himself or appoint any officer to act as arbitrator.

- (III) It is also a term of this contract that no person other than the Chairman himself or any officer appointed by him shall act as arbitrator.
- (IV) It is a term of this contract that only such questions and disputes as were raised during the progress of other work till its completion and not thereafter shall be referred to arbitration. However, this would not apply to the questions and disputes relating to liabilities of the parties during the guarantee period after completion of the work.
- (V) It is a term of the contract that the party invoking arbitration shall give a list of disputes with amount of claim in respect of each said disputes along with the notice seeking appointment of arbitrator.

- (VI) It is also a term of the contract that if the Contractor does not make any demand for appointment of arbitrator in respect of any claims/disputes in writing, as aforesaid, within 120 days of receiving the intimation from the Engineer –in-charge that the final bill is ready for payment, the claim of the Contractor shall be deemed to have been waived and absolutely barred and the Port Trust shall be discharged and released of all liabilities under the contract in respect of these claims.
- (VII) It is also a term of the contract that the arbitrator shall adjudicate only such disputes/claims as referred to him by the appointing authority and give separate award against each dispute/claim referred to him. The arbitrator will be bound to give claim wise detail and speaking award and it should be supported by reasoning.
- (VIII) The award of the arbitrator shall be final, conclusive and binding on all the parties to Contractor.
- (IX) The arbitrators from time to time, with the consent of both the parties, enlarge the time for making & publishing the award.
- (X) Arbitration shall be conducted in accordance with the provisions of Indian Arbitration Act, 1996 or any statutory modifications or enactment thereof and rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.
- (XI) It is also a term of the contract that if any fees are payable to the arbitrator, this shall be paid equally by both the parties.
- (XII) It is also a term of a contract that the arbitration shall be deemed to have been entered on the reference on the date he issues the first notice to both the parties calling them to submit their statement of claims and counter statement of claims.
- (XIII) Venue of the arbitration shall be such place as may be fixed by the arbitrator at his sole discretion.

**25. Indemnification:**

The Contractor shall indemnify, protect and defend at its own cost, DEENDAYAL PORT AUTHORITY and its agents & employees from & against any/all actions, claims, losses or damages arising out of

- a. any violation by the Contractor in course of its execution of the contract of any legal provisions or any right of third parties;
- b. Contractor's failure to exercise the skill and care required for satisfactory execution of the contract.

**26. Engineer-in-Charge or his nominee's Decisions**

Except where otherwise specifically stated, the Engineer-in-Charge or his nominee will decide contractual matters between the employer and the Contractor in the role representing the employer.

**27. Delegation**

The Engineer-in-Charge or his nominee may delegate any of the duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

**28. Communications**

Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act 1872).

**29. Personnel:**

- 29.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel as referred to in the Contract Data to carry out the functions stated in the Schedule or other personnel approved by the Engineer-in-Charge. The Engineer-in-Charge will approve any proposed replacement of Key personnel only if their qualifications, abilities, and relevant experience are substantially equal or better than those of the personnel listed in the Schedule.
- 29.2 If the Engineer-in-Charge asks the Contractor to remove a person who is a member of the Contractor's staff of his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connections with the work in the Contract.

**30. Employer's Obligation**

- (i) Electricity, water and land for execution of the work at site shall be provided on payment of applicable tariff of the employer subject to availability. If DPA is unable to provide electricity and water the same will be arranged by the contractor at his own cost.
- (ii) The employer will not provide Port Authority Quarters, during the tenure of contract.
- (iii) Administrative support only, for obtaining clearance from any statutory authority, shall be provided by the employer.
- (iv) On successful completion of all the obligations under the contract and on the request of the Contractor, the employer shall issue a "Completion Certificate with the approval of the Chief Mechanical Engineer, the employer.

**31. Queries about the Technical Data**

The Engineer-in-Charge or his nominee will clarify queries on the Technical Data.

**32. Approval by the Engineer-in-Charge or his nominee.**

The Contractor shall submit the makes of material, equipments, specifications and drawings for proposed Work to the Engineer-in-Charge or his nominee, who is to approve them subject to compliance with the Technical specifications and drawings.

The Engineer-in-Charge or his nominee's approval shall not alter the Contractor's responsibility for the work.

All drawings prepared by the contractor for the work if any, are subject to prior approval by the Engineer In Charge or his nominee before procurement/execution.

**33. Discoveries**

Anything of historical or other interest or of significant value unexpectedly discovered on the site is the property of the employer. The contractor is to notify the employer or his nominee of such discoveries and carry out the instructions of employer or his nominee for dealing with them.

**34. Access to the site**

The contractor shall allow the Engineer in charge or his nominee and any person authorized by him access to the site to any place where work in connection with the contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured, fabricated and/or assembled for the work.

**35. Instructions**

The contractor shall carry out all instructions of the engineer or his nominee which comply with applicable laws where the site is located.

**36. Safety**

The Contractor shall be responsible for the safety of all activities on the Site.

**Quality Control**

**37. Identification of Defects**

The Engineer-in-Charge or his nominee shall check the work carried out by Contractor and notify the Defects found if any. The Engineer-in-Charge or his nominee may instruct the Contractor to rectify the Defect.

**38. Correction of Defects**

38.1 The Engineer-in-Charge or his nominee shall give notice to the Contractor of any Defects before the end of the Defects Liability Period (Guarantee Period), which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

38.2 Every time notice of a Defect is given the Contractor shall correct the notified Defect within the length of time specified by the Engineer-in-Charge or his nominee's notice.

**39. Uncorrected Defects**

If the Contractor has not corrected a Defect within the time specified, the Engineer-in-Charge or his nominee will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

**40. Employer's right of Rejection:**

The employer shall reserve the right to reject a part portion or consignment thereof within a reasonable time after actual delivery thereof at the place of destination, if consignment is not in all respects in conformity with terms & conditions of the contract whether on account of any loss, deterioration or damage before dispatch or delivery or during transit or otherwise whatsoever.

**41. Removal of Rejected goods:**

Rejected goods shall under all circumstances lay at the risk of the contractor from the moment of rejection and if such goods are not removed by the contractor within 21 days from the date of intimation from the Engineer-in-Charge. Engineer-in-Charge may either return to the contractor at the risk and cost of the contractor by such mode of transport as the Engineer-in-Charge may select or dispose of such material at the contractor's risk on his account and retain such portion of the sale proceeds as may be necessary to recover any expenses incurred in such disposals.

**42. Use of Contract Document:**

The Contractor shall not, without prior consent, make use of any document except for the purpose of performing this contract.

**43. Memorandum of Settlement:**

The Contractor shall not sign any memorandum of settlement with any agency such as Trade Unions etc. in any form at any level without the prior written permission of the employer in relation to any work under taken by him in the Port premises.

**44. Deviations:**

The bidder must read the tender document carefully and prepare the bid for submission. It is important to note that deviations, if any, must be brought out clearly in the technical offer, which shall be examined by DEENDAYAL PORT AUTHORITY. If the deviation statement submitted by the bidder does not contain any item, then it shall be construed that the bidder has accepted the same and no request from the Contractor, for any change, shall be accepted by DPA at a later stage. In any case, no change in specifications given in the



tender agreement shall be permitted. However, only in unavoidable circumstances, DEENDAYAL PORT AUTHORITY may consider such requests from the Contractor, provided the Contractor submits its request with adequate justification.

**45. Approvals:**

The Engineer-in-Charge shall give specific approval in writing within 7 Days to Contractor after written submission regarding Makes of Material to be used for the Contract and Drawings, if any to be furnished by the Contractor to Engineer-in-Charge for approval. Any corrections to be suggested by Engineer-in-Charge in drawings, the days taken for rectification in drawings shall be in account of the Contractor.

**46. Third Party Inspection:**

The Third Party Inspection Agency shall be arranged by DPA and cost of Third Party Inspection mentioned below shall be borne by DPA.

- i. The Third Party Inspection Agency will carry out approval of drawings if any, material inspection at manufacturer's works/site, dispatch clearance from manufacturer's work, certification for releasing stage payments as per payment terms of contract for all the material as per schedule/work till taken over by DPA.
- ii. The Third Party shall carry out inspection of work as per tender specification/relevant standard.
- iii. The above stage payment shall be released after certifying by the third party and copy of the same shall be produced by Contractor for releasing the stage payment as per **Payment Terms**.

**47. Bar Chart:**

The Contractor shall submit a bar chart, before signing the agreement, clearly indicating the plan for timely execution of the work. The bar chart must indicate the individual activities and commencement and completion dates of each activity. The bar chart shall be used for monitoring the progress of the work.

**48. Engagement of Labour:**

The contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

**49. Police verification of Contract Labour:**

The Contractor who has been awarded the job through Work Order shall furnish necessary Police Clearance Certificate in respect of character and antecedents of all Contract Labourers engaged by them, before commencing the work at site.

This will be a part of Contractual Agreement, as entire Cargo Jetty, Oil Jetty area has been declared as **"Prohibited Area"**. Contractor who would be awarded contract is required to comply with the above requirements.

Contractor shall obtain such Police Clearance Certificate from Police available against a nominal fee per Certificate and they will submit this Certificate giving Work Order reference on it, to the Office of the Engineer In Charge of respective Divisions, to be forwarded to Commandant, CISF which our Security Department along with request for issuance of Entry Passes.

The Contractor shall, if required by the Engineer-in-Charge, deliver to the Engineer-in-Charge a return in detail, in such form and at such intervals as the Engineer-in-Charge may prescribe, showing the staff and numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer-in-Charge may require.

**a) Submission of Labour Reports by Every Fortnight:**

The contractor shall submit, by the 4<sup>th</sup> and 19<sup>th</sup> of every month, to the Engineer-in-Charge a true statement showing, in respect of the second half of the preceding month and the first half of the current month respectively.

1. The number of labourers employed by him on the work.
2. Their working hours.
3. The wages paid to them.
4. The accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and
5. The number of female workers who have been allowed Maternity Benefit, according to clause 19 F and the amount paid to them, failing which, the Contractor shall be liable to pay to Government a sum not exceeding Rs. 200/- for each default or materially incorrect statement. The decision of the Engineer-in-Charge shall be final in deducting from any bill due to the contractor the amount levied as fine and be binding on the contractor.

**b) No Labour Below 14 Years:**

No labour below the age of 14 (fourteen) years shall be employed on the work.

**50. Registers to be maintained at site**

**1. Site order Book:**

A site order book is to be maintained by the contractor at the site. The work orders and instructions written in the site order book shall be deemed to have been legally issued to the contractor shall sign each entry in the site order book as a token of his having seen the same. The site order book shall be property of the Board and shall be handed over to the Engineer-in-charge of the work in good condition on the completion of the work or whenever required by the Engineer-in-charge or his authorized representative.

**2. Hindrance Register**

Every type of hindrance arising during the execution of work should be invariably recorded in the hindrance register. The Hindrance Register is to be maintained by the Engineer In Charge at the site. The contractor shall sign each entry in the hindrance Register as a token of his having seen the same. The Hindrance Register shall be property of the Board.

**51. No damage, hindrance or interference to the Port activities:**

The contractor shall be required to execute the work in such a manner as not to cause any damage, hindrance or interference to the Port activities and the work going on in the area. The contractor shall have to make good the loss at his own cost and risk all damages caused by his workmen to Port property and no extra payment shall be made to him on that account.

**52. Tools & Tackles**

All the tools, tackles, bricks, cement, ladders etc. for executing the work will have to be arranged by the contractor at his own cost. Arrangement for storing the materials, tools etc. will also have to be made by him. The EMPLOYER shall not be responsible for any theft/loss of any materials, tools, etc. stored/brought by the contractor for execution of work within the Port area.

**53. Hot work:**

In case of carrying out any hot work such as gas cutting and welding necessary regulations, prevailing at DEENDAYAL PORT AUTHORITY for such works shall be observed by the tenderer and necessary fire watch permit and No Objection Certificate shall be obtained from the concerned authorities of the port and necessary charges at the scale of rate prevailing in the port at that time shall be paid by the contractor.

**54. Indian Dock Safety Regulations:**

Necessary Indian Dock Safety Regulations for the safety purpose shall be adhered to by the contractor and he will be held responsible for any violation of the same.

**55. Electrical Supervisor Certificate:**

The contractor shall have valid electrical contractor's license for carrying out electrical work of nature involved in this tender obtained from the competent authority of the respective state without which the tender shall not be accepted. Contractor shall submit certificate and copy of the license in lieu of the same for consideration. (This clause has also been included in pre-qualification criteria)

The contractor shall also have a valid Electrical Supervisor's certificate of competency, issued from the Commissioner of Electricity, Energy & Petrochemical Department, (Inspection wing), Block No.18, 6<sup>th</sup> floor, Sector No. II, Udyog Bhavan, Gandhinagar, Government of Gujarat or equivalent authority from the other states/central Govt.

**56. Action where no Specifications are specified:**

The work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in- Charge.

**57. Undertaking by the Contractor:**

Having understood all the terms and conditions of the tender document and having assessed the site conditions, we hereby confirm that the price offered by us is a firm price and includes all the taxes (excluding GST), duties, fees, Cess etc. and all incidental charges.

**58. Labour License:**

The contractor will have to obtain necessary License from Assistant Labour Commissioner (ALC), Gopalpuri, Gandhidham (Kutch), in case he is engaging ten or more workers on any day during execution of work.

**59. Fraudulent documentation by bidders:**

Submission of fraudulent documents shall be treated as major violation of the tender procedure and in such cases the Port shall resort to forfeiture of EMD, if any/SD/BG of the bidder, apart from blacklisting the firm for the next 3 years.

**60. If applicable, the contractor shall be registered under the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996.**

**Signature & Seal  
of Contractor**

**XEN (E)  
Deendayal Port Authority**

### **SECTION –III**

#### **SPECIAL CONDITIONS**

**(These special conditions will supersede the General Condition of Contract and ITB wherever applicable.)**

**1. Issue of work order (This clause may be read with clause No. 34 of Section-I)**

The work order will be issued on the submission and acceptance of the following documents:

<b>Sr. No.</b>	<b>Description</b>	<b>Time period for submission</b>
1	Duly signed agreement along with the required documents.	14 days from the date of receipt of LOI
2	Performance guarantee of appropriate value and in format, prescribed.	21 days from the date of receipt of LOI

**2. Insurance:**

**The Clause No. 8 (Insurance) of General Condition of Contract (GCC), Section-II is modified and shall be read as under:**

The contract shall provide in the joint names of the employer and the contractor, insurance cover from the start date upto the end of completion of work for the following events which are due to the contractor risk :

- a) loss of or damage to the works, plan and materials
- b) loss of or damage to equipment
- c) loss of or damage of property (except the works, plant, materials and equipment) in connection with contract, and
- d) personal injury or death.

**3. Supply of material of particular brands/Make**

The contractor shall supply the materials of only the particular bands/Make specified in the tender. If none of the make/brands are available in the market then the department will accept the equivalent make/brand subject to the contractor producing a letter of non-availability from the manufacturer only. The EIC will ascertain the veracity of that letter directly from the manufacture. Such material will be accepted after obtaining the approval of the authority who approved the tender.

**4. Integrity Pact:**

The Integrity Pact duly signed by authorized person(s) with witnesses are to be submitted by the bidders along with tender fee and EMD in preliminary bid the as per the format provided in Section IV failing which the bid will be treated as non- responsive.

Bidders are required to sign the integrity pact (as per given below with the tender document), failing which their bid shall be liable for rejection. The "principal" means "Deendayal Port Authority" and "Counterparty" means "Vendor / Supplier / Contractor".

If a Counter party commits a violation of its Commitments and Obligations under the Integrity Pact Program during bidding process, their entire Earnest Money Deposit, would be forfeited and in addition, they may be blacklisted from the DPA business in future.

In case of violation of the Integrity Pact by Counter party after award of the Contract, DPA shall be entitled to terminate the contract. DPA would forfeit the Security Deposits; encase the Bank Guarantee(s) and other payments to counter party in such cases.

- 5. Contractor / Service provider / Supplier etc. has to ensure timely and proper filling of GSTRI so that Deendayal Port Trust can avail input tax credit in timely manner. In case DPA not allowed Input tax credit due to failure on part of the contractor / service provider / Supplier etc. it will**

be a financial loss to DPA and therefore same shall be recovered from the payment /deposit  
o the contractor /service provider / Supplier.

6. Contractor will be responsible for obtaining the necessary permissions for laying cable through railway crossing/road/pipeline. Liasioning work for the same is also under the contractor's scope of work.
7. The contractor shall be registered under the The Building and Other Constructions Workers (Regulation of Employment and Conditions of Service) Act, 1996. The payment from 2<sup>nd</sup> bill to pre-final bill, shall be released, subject to the condition that the documentary evidence (copy of paid Challan in Govt. Treasury) of the Welfare Cess @1% of work done or as amended by Statutory Authority from time to time, paid to concerned authority is submitted for the previous bill.

**Signature & Seal of  
Contractor**

**XEN(E)  
Deendayal Port Authority**

## **SECTION IV**

### **FORMS OF BID**

#### **Part – I**

**To be submitted by Bidders with their Bids**

<b>Form no.</b>	<b>Name of forms/format</b>
1	Form of application
2	Pre-qualification of bidders
3	Format for declaration
4	Letter of authority for submission of bid
5	Exceptions & Deviations
6	Integrity pact

#### **Part – II**

**To be used by successful Bidder**

<b>Form no.</b>	<b>Name of forms/format</b>
7	Letter of intent
8	Agreement form
9	Specimen bank guarantee of Performance Guarantee/Security Deposit
10	Letter of authority from ban for all BGs
11	Format of Extensions (Part – I)
12	Format of Extension (Part-II)

**SPECIMEN OF APPLICATION**

(To be executed on bidder's letter head)

To  
The EXECUTIVE ENGINEER  
DEENDAYAL PORT AUTHORITY  
(Address \_\_\_\_\_)

Pin Code: \_\_\_\_\_

Dist- Kutch (Gujarat)

We, the undersigned, declare that:

- (a) we have examined and have no reservations to the tender documents, including addenda and clarifications issued vide .....
- (b) we offer to execute the work in conformity with the tendering documents and in accordance with the delivery schedules specified in the schedule of requirements in accordance with the tender document bearing no **(EL/AC/\_\_\_)**
- (c) our tender shall be valid for the period of 120 days, from the date fixed for the tender submission deadline and it shall remain binding upon us and may be accepted at any time before the expiration of that period or any extended period.
- (d) If our tender is accepted, we commit to submit a performance guarantee for the due performance of the contract, as specified in specimen form for the purpose.
- (e) No Joint Venture / Joint Venture.
- (f) Our firm, its affiliates or subsidiaries- including any subcontractors or contractors for any part of the contract – has not been declared ineligible by the port, under laws of India or official regulations.
- (g) We understand that this tender, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract agreement is prepared and executed.
  - I. We understand that you are not bound to accept the lowest evaluated tender or any other tender or you can also split the work that you may receive.
  - II. We also make a specific note clause of [ITB, NIT] under which the contract is governed.

Signed: [insert signature of person whose name and capacity are shown]

In the capacity of [insert legal capacity of person signing the form of tender]

Name:[insert complete name of person signing the form of tender]

Duly authorized to sign the tender for and on behalf of: [insert complete name of tenderer]

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_(insert date of signing)

<b>Specimen format for Pre-qualification of bidders</b>
---

The information to be filled in by the bidder in the following pages will be used for purposes of pre-qualification as provided for in the instructions to Tenderer.

**1. Only for individual bidders**

- 1.1 Constitution of legal status of Bidder (Attach copy)
- Place of registration:
  - Principal place of business
  - (power of attorney of signatory of Bid (Attach)

**2. Turnover of the Firm**

Description	Year	Turn over
(insert the year as per PQC)	2019-20	
i.e. last three financial years ending 31st	2020-21	
march of the previous year	2021-22	

Attachment: financial reports for the last three years: balance sheet, profit and loss statements, auditor's reports (in case of companies/corporation) etc. List them below and attach copies.

Attested Copy of Annual Turnover during Last Three Year Ending on **March 2022**

**3. Similar works**

Particulars	Year	No. of Woks	Value
Total value of completed Similar work as defined in the tender document during last 07 years.	2015-16		
	2016-17		
	2017-18		
	2018-19		
	2019-20		
	2020-21		
	2021-22		

Attachments: Supporting documents, viz., Successful completion certificate from clients, other documentations to substantiate the similarity of work as per definition of "Similar Work". Employer reserves the right to verify the information:

- 4.** Information on bid capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going works.

Description of work	Place & State	Contract No. & Date	Name & Address of Port or Dept.	Value of Contract in Rs.	Stipulated Period of Completion	Value of remaining to be completed	Anticipated date of completion
1	2	3	4	5	6	7	8

(B) Works for which bids already submitted

Description of work	Place & State	Name & Address of Port or Dept.	Value of Contract in Rs.	Stipulated Period of Completion	Date when decision is expected	Remarks if any
1	2	3	4	5	6	7

Attach attested certificates.



**5. Information on litigation history in which the bidder is involved.**

Other party (ies)	Port	Cause of dispute	Amount	Remark involved showing present status.

**6. Additional information bidder may like to submit**

Duly authorized to sign this authorization on behalf of: (insert complete name of Tenderer)

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ (insert date of signing)

**SPECIMEN FORMAT FOR DECLARATION**

(To be executed on bidder's Letter Head)

To. \_\_\_\_\_

(Project title)

Ref: \_\_\_\_\_

The undersigned, having studied the pre-qualification submission for the above mentioned project, hereby states:

- (a) The information furnished in our bid is true and accurate to the best of my knowledge.
- (b) That, in case of being pre-qualified, we acknowledge that the Employer may invite us to participate in due time for the opening of Price bid of the Tender on the basis of provisions made in the Tender Documents to follow.
- (c) When the call for Tenders is issued, if the legal, technical or financial conditions, or the contractual capacity of the firm changes, we commit ourselves to inform you and acknowledge your sole right to review the pre-qualification made.
- (d) We enclose all the required pre-qualification data format and all other documents and supplementary information required for the pre-qualification evaluation.
- (e) We also state that no changes have been made by us in the downloaded tender formats and understand that in the event of any discrepancies observed, the tender hoisted on website of procure is full and final for all legal/contractual obligations.
- (f) We also declare that, our firm has not been banned / de-listed by any government or PSUs.
- (f) We also give an undertaking that, we have not made any payment or illegal gratification to any person / authority connected with the bid process so as to influence the bid process and have not committed any offence under the PC Act in connection with the bid.

Date: \_\_\_\_\_ Place: \_\_\_\_\_

\_\_\_\_\_  
Name of Applicant: \_\_\_\_\_

Represented by (Name & capacity) \_\_\_\_\_

**SPECIMEN LETTER OF AUTHORITY FOR**  
**SUBMISSION OF BID**

(To be executed on Rs.300/- non Judicial Stamp Paper)

To  
The  
Dear Sir,

We----- do hereby confirm that Shri  
..... (Name, designation and Address) is/are authorized to represent us to bid,  
negotiate and conclude the agreement on our behalf with you {copy of board resolution attached  
(in case of company)} for tender no. ----- for the work of \_\_\_\_\_ and his specimen signature  
is appended here to ..

We confirm that we shall be bound by all and whatsoever our said signatory shall commit.  
We understand that the communication made with him by the employer/Board shall be deemed  
to have been done with us in respect of this Tender.  
[Specimen signature]

Yours faithfully,  
Signature:  
Name & Designation:  
For & on behalf of:

**EXCEPTIONS AND DEVIATIONS**

As pointed out in the Tender Call Notice, Bidder may stipulate here exceptions and deviations to the bid conditions, if considered unavoidable.

<b>Sr. No.</b>	<b>Page No. of Bid Document</b>	<b>Clause No. of Bid Document</b>	<b>Subject Deviation</b>

Note: however, the Bidders may note that unacceptable deviations, if any, the bid shall be liable for rejection. Bidder is discouraged to deviate from bid conditions, specifications, delivery schedules, and commercial terms as per the tender document.

Duly authorized to sign this authorization on behalf of: [insert complete name of Tenderer]

Date on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ [insert date of signing]

**INTEGRITY PACT  
BETWEEN**

**Deendayal Port Authority (DPA) hereinafter referred to as "The Principal"**

**AND**

**(Name of the bidder and consortium members).....hereinafter referred to as "the Bidder/Contractor"**

**Preamble**

The Principal intends to award, under laid down organizational procedures, contract(s) / concession(s) for Tender No. .... The Principal values full compliance with all relevant laws of the land rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(s) and / or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

**Section 1 - Commitments of the Principal**

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

(a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

(c) The Principal will exclude from the process all known prejudicial persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC / PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

**Section 2 - Commitments of the Bidder / Contractor**

1) The Bidder(s) / Contractor(s) commits themselves to take all measures necessary to prevent corruption. The Bidder(s) / Contractor(s) commits themselves to observe the following principles during participation in the tender process and during the contract execution.

a. The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in tender process or the execution of the contract or to any third person any material or other benefit, which he / she is not legally entitled to, in order to obtain in exchange of advantage of any kind whatsoever during the tender process or during the execution of the contract.

b. The Bidder(s) / Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids, or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

c. The Bidder(s) / Contractor(s) will not commit any offence, under the relevant Prevention of

Corruption Act / Indian Penal Code / PC Act; further the Bidder(s) / Contractor(s) will not use improperly, for purposes of competition, or personal gain, or pass on to others, any information or document provided by the Principal, as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The Bidder(s) / Contractor(s) of foreign origin shall disclose the name and address of the Agents / Representatives in India, if any. Similarly, the Bidder(s) / Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s) / Contractor(s). Further, as mentioned in the Guidelines all the payments made to Indian agent / representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed at (page Nos. 7-20)

e. The Bidder(s) / Contractor(s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries, in connection with the award of the contract.

f. Bidder(s) / Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.

(2) The Bidder(s) / Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section- 3 Disqualification from tender process and exclusion from future contracts.**

If the Bidder(s) / Contractor(s), before award or during execution has committed a transgression through a violation of Section-2 above, or in any other form, such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder (s) / Contractor(s), from the tender process, or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings".

### **Section-4 Compensation for Damages**

- (1) If the Principal has disqualified the Bidder(s), from the tender process prior to the award, according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit / Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor, liquidated damages of the Contract Value or the amount equivalent to Security Deposit / Performance Bank Guarantee, whichever is higher.
- (3) The Bidder(s) agrees and undertakes to pay the said amounts, without protest or demur, subject only to condition that, if the Bidder(s) / Contractor(s) can prove and establish that the termination of the contract, after the contract award has caused no damage or less damage than the amount of the liquidated damages, the Bidder/Contractor shall compensate the principal, only to the extent of the damage in the amount proved.

### **Section-5 Previous transgression**

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

- (1) The Bidder declares that, no previous transgressions occurred in the last three years with any other company in any country confirming to the anti-corruption approach or with any other Public Sector Enterprises in India, that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of Business dealing".

### **Section-6 Equal treatment of all Bidders / Contractors**

- (1) In case of a Joint Venture, all the partners of the Joint Venture will enter into agreement with identical conditions as this on which all Bidders.
- (2) There is no provision of sub-contract in the tender, any violation of the same, Contractor shall be held solely responsible for the same.

### **Section-7 - Criminal charges against violating Bidders / Contractors**

If the principal obtains knowledge of conduct of a Bidder/Contractor or Subcontractor, or of an employee, or a representative, or an associate of a Bidder/Contractor, or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion, in this regard, the Principal will inform the Vigilance office.

### **Section-8 External Independent Monitor**

- (1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The Monitor is not subject to instructions by the representative of the parties and performs his / her functions neutrally and independently. The Monitor would have access to all Contact documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders / Contractors as confidential. He / she reports to the Chairperson of the Board of the Principal.
- (3) The Bidder(s) / Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Bidder / Contractor will also grant the Monitor, upon his / her request and demonstration of a valid interest, unrestricted and unconditional access to the project documentation. The Monitor is under contractual obligation, to treat the information and documents of the Bidder / Contractor with confidentiality.
- (4) The Monitor is under contractual obligation to treat the information and documents of the Bidder(s) / Contractor(s) with confidentiality. The Monitor has also signed declaration on "Non-Disclosure of Confidential Information" and of "Absence of Conflict of Interest". In case of any conflict of interest arising at a later date, the IEM shall inform Chairman, DPA and recues himself / herself from that case

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

- (5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Bidder / Contactor. The parties offer to the Monitor the option to participate in such meetings.
- (6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he / she will so inform the Management of the Principal and request the management to discontinue, or take corrective action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- (7) The Monitor will submit a written report to the Chairperson of the Board of the Principal, within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- (8) If the Monitor has reported to the Chairperson of the Board of the Principal, a substantiated suspicion of an offence under relevant IPC / PC Act and the Chairperson of the Board of the Principal has not, within reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- (9) The word "Monitor" would include both singular and plural.

### **Section-9 Pact Duration**

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidder and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue be valid despite the lapse of this Pact as specified above, unless it is discharged / determined Chairperson of the Principal.

The Pact duration in respect of unsuccessful Bidders shall expire after 6 months of the award of the contract

### **Section-10 Other Provisions**

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. Gandhidham, Gujarat.
- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (3) If the Bidder / Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement, turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.




188

# Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

(5) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.

(6) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

(For & on behalf of the Principal)

  
(Office Seal)  
XEN (F.)

(For & on behalf of the Bidder/Contractor)

(Office Seal)

Place: Gandhidham

Date: \_\_/\_\_/2023

Witness-1: (Name & Address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness-2 : (Name & Address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Form- 7

## LETTER OF INTENT FORMAT

No: \_\_\_\_\_

Date: \_\_\_\_\_

To \_\_\_\_\_

(Name and Address of the Contractor)

Sub: Tender No. EL/AC/2678

(Name of Work)

Ref : Your bid dated

And (list the correspondence with the Bidder)

Dear Sirs,

With reference to your above offer and subsequent correspondences on the subject, we are pleased to inform you that your offer has been accepted by the competent authority and you are hereby requested to initiate actions for fulfilment of all necessary formalities, as indicated in the tender document for the above said work, at the earliest.

The Engineer-In-Charge for this work shall be Mr.\_\_\_\_\_.  
Agreed Schedule date of commencement of the work is \_\_\_\_\_ and Schedule date of completion of the work is \_\_\_\_\_. Total Contract Price is Rs.\_\_\_\_\_.

You are requested to sign the Agreement and fulfil other formalities as per the Tender conditions.

**Yours Faithfully,**

**(Signature of the controlling Officer)**  
**CHIEF MECHANICAL ENGINEER**  
**DEENDAYAL PORT AUTHORITY**

# Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Form-8

## SPECIMEN CONTRACT AGREEMENT

(To be executed on Rs.300.00 non-judicial stamp paper)

[The successful tenders shall fill in this form in Accordance with the instructions indicated]

This agreement made of this \_\_\_\_\_ day of \_\_\_\_\_ Two Thousand between the Board of Deendayal Port Authority a body corporate under Major Ports Authorities Act, 2021 have its Administration Office Building at Gandhidham ( Kutch) (hereinafter called the 'Board' which expression shall unless excluded by or repugnant to the context , be deemed to include their successors in office ) of the one part and \_\_\_\_\_ (Name and address of all the partners if a partnership with all their address ) hereinafter called the 'Contractor' which expression shall unless excluded by or repugnant to the context be deemed to include his / their heirs, executors , administration , representatives and assignees or successors in office of the other part.

WHEREAS the Board is desirous to carrying out the work of \_\_\_\_\_  
\_\_\_\_\_ And whereas the Contractor has offered to execute and complete such work.

WHEREAS the Contractor has deposited a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as security deposit in the form of \_\_\_\_\_ Bank Guarantee/Demand Draft

NOW THIS AGREEMENT WITHINNESS AS FOLLOWS:-

1. In this agreement words and expression shall have the same meaning as are respectively assigned to them in the general condition (including special conditions, if any) of contract hereinafter referred to.
2. The following documents shall be deemed to form and read as construed part of this agreement viz.:
  - i) Notice inviting tender.
  - ii) Technical specifications.
  - iii) Special conditions of contract.
  - iv) Tender submitted by the Contractor.
  - v) The Board's "Drawing".
  - vi) The schedule items of work with quantities and rates.
  - vii) Any correspondence made between the Superintending Engineer (E) and the Contractor after opening of the cover-I—as regards to contain clarifications/details called for vice versa.
  - viii) Common terms and conditions offered to Contractor and their acceptance including confirmation to withdrawal of their own terms and conditions offered with the tender i.e. 'Cover-I'.
  - ix) Bank Guarantee for security deposit.

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

3. The Contractor hereby covenants with the Board to complete the work of \_\_\_\_\_ in conformity in all respects, with the provisions of the contract.

4. The Board hereby covenants to pay the Contractor in consideration of such completion of the works, the contact price of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) at the time and in the manner prescribed of the contract.

IN WITNESS WHERE of the parties here unto have set their hands and seals the day and year first above written signed and sealed by the Contractor in the presence of:-

Witness

1. Name & Address \_\_\_\_\_  
Seal

Signature of Contractor

2. Name & Address \_\_\_\_\_  
Seal

Signed, sealed and delivered by Shri \_\_\_\_\_ on behalf of the Board in presence of

1. \_\_\_\_\_

2. \_\_\_\_\_ (Chief Mechanical Engineer)  
Deendayal Port Authority

The common seal of the Board of Trustees of Deendayal Port Authority in the presence of:

1. \_\_\_\_\_  
2. \_\_\_\_\_

Secretary  
Deendayal Port Authority

# Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Form-9

## **SPECIMEN BANK GURANTEE TOWARDS PERFORMANCE** **GUARANTEE/SECURITY DEPOSIT**

(To be executed on Rs. 300/- non-judicial Stamp Paper)

To,  
DEENDAYAL PORT AUTHORITY  
A.O.Building, P.O.Box No.50,  
Gandhidham-Kutch.

1. In consideration of the Board of Deendayal Port Authority incorporated by the Major Port Authorities Act, 2021 (hereinafter called "The Board" which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include the Board of Deendayal Port Authority of, its successors and assigns) having agreed to exempt \_\_\_\_\_ (hereinafter called the "contractor") (Name of the contractor/s) from the demand under the terms and condition of the contract, vide \_\_\_\_\_ (Name of the Department)'s letter No. \_\_\_\_\_ Date \_\_\_\_\_ made between the contractors and the Board for execution of \_\_\_\_\_ covered under Tender No. \_\_\_\_\_ dated \_\_\_\_\_ (hereinafter called "the said contract") for the payment of Security Deposit in cash or Lodgment of Government Promissory Loan Notes for the due fulfillment by the said contractors of the terms and condition of the said contract, on production of a bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only we, the (Name of the Bank and Address) \_\_\_\_\_ hereinafter referred to as "the Bank") at the request of the contractors do hereby undertake to pay to the Board an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only against any loss or damage caused to or suffered by the Board by reason of any breach by the contractors of any of the terms and conditions of the said contract.

2. We, \_\_\_\_\_ (Name of Bank) (Name of Branch), do hereby Undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the Board stating that the amount claimed is due by way of loss or damage caused to or which would be caused to or suffered by the Board by reason of the contractors failure to perform the said contract. 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 any amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only.

3. We, \_\_\_\_\_ (Name of Bank and Branch), undertake to pay to the Board any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding 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 Contractor(s) shall have no claim against us for making such payment.

4. We, \_\_\_\_\_ (Name of Bank and Branch), further agree with the Board that the guarantee herein contained shall remain in full force and effect during the period that would be taken for performance of the said contract and that it shall continue to be enforceable till all the dues of the Board under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the \_\_\_\_\_ (Name of the user department)

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

of the said certifies that the terms and conditions of the said contract have been fully and properly carried out by the said Contractors and accordingly discharge this guarantee. PROVIDED HOWEVER that the Bank shall at the request of the Board but at the cost of the Contractors, renew or extend this guarantee for such further period or periods as the Board may require from time to time.

5. We, \_\_\_\_\_ (Name of Bank and Branch), further agree with the Board that the Board 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 contract or to extend the time of performance by the said contract or to extend the time of performance by the said Contractors from time to time or to postpone for any time or from time to time any of the powers exercisable by the board against the said Contractors and to forebear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extensions being granted to the contractors or for any forbearance, act or omission on the part of the Board or any indulgence shown by the board to the Contractors or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

7. It is also hereby agreed that the Courts in Gandhidham would have exclusive jurisdiction in respect of claims, if any, under this Guarantee.

8. We, \_\_\_\_\_ Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Board in writing.

9. Notwithstanding anything contained herein :

(a) Our liability under this Bank Guarantee shall not exceed Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only);

(b) This Bank Guarantee shall be valid upto \_\_\_\_\_ ; and

(c) We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before \_\_\_\_\_ (date of expiry of Guarantee)."

10. (i) Name of Beneficiary's Bank is State Bank of India, Gandhidham.

(ii) IFSC No. of Beneficiary's Bank is SBIN0060239.

(iii) Bank Account No. of Beneficiary is 10316591671.

Date \_\_\_\_\_ day of \_\_\_\_\_ 20

For (Name of Bank)  
(Name)  
Signature

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Form-10

### **SPECIMEN LETTER OF AUTHORITY FROM BANK**

#### **FOR ALL BGs**

(To be executed on Bank's Letter Head)

Date:

To,  
The Board of Deendayal Port Authority,

Dear Sir,

Sub: Our Bank Guarantee No. \_\_\_\_\_  
dated \_\_\_\_\_ for Rs. \_\_\_\_\_ favoring yourselves  
issued on a/c of \_\_\_\_\_

M/s. \_\_\_\_\_  
(Name of contractor)

.....

We confirm having issued the above mentioned guarantee favoring yourselves, issued on account of M/s. \_\_\_\_\_ validity for expiry upto date \_\_\_\_\_ and claim expiry date up to \_\_\_\_\_. We also confirm 1) \_\_\_\_\_ 2) \_\_\_\_\_ is/are empowered to sign such Bank Guarantee on behalf of the Bank and his/their signatures is/are binding on the Bank.

Name of signature of Bank Officer

# Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Form-11

## DEENDAYAL PORT AUTHORITY

### Form of application by the Contractor for seeking extension of time

#### Part – 1

1. Name of Contractor
2. Name of work as given in the agreement
3. Agreement No.
4. Estimated amount put to tender
5. Date of commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulated in agreement
8. Period for which extension of time has been given previously:
  - (a) 1<sup>st</sup> extension vide EE's No.    Dated    Month        Days
  - (b) 2<sup>nd</sup> extension vide EE's No.    Dated    Month        Days
  - (c) 3<sup>rd</sup> extension vide EE's No.    Dated    Month        Days
  - (d) 4<sup>th</sup> extension vide EE's No.    Dated    Month        DaysTotal extension previously given.
9. Reasons for which extensions have been previously given (Copies of the previous application should be attached)
10. Period for which extension is applied for
11. Hindrance on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last.
  - (a) Serial No.
  - (b) Nature of hindrance
  - (c) Date of Occurrence
  - (d) Period for which it is likely to last
  - (e) Period for which extension required for this particular hindrance
  - (f) Overlapping period if any, with reference to item.....
  - (g) Net extension applied for
  - (h) Remarks, if any.Total period on account of hindrance mentioned above.....  
Month.....Days
12. Extension of time required for extra work
13. Details of extra work and amount involved:
  - (a) Total value of extra work
  - (b) Proportionate period of extension of time based on estimated amount put to tender on account of extra work.
14. Total extension of time required for 11 & 12

Submitted to the Sub-Divisional Officer.....

**Signature of Contractor**  
**Dated:**



# Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Form-12

## **DEENDAYAL PORT AUTHORITY** **APPLICATION FOR EXTENSION OF TIME**

### **PART II**

#### **(To be filled in by the Sub-Divisional Office)**

1. Date of receipt of application from ..... Contractor for the work of..... in the Sub-Divisional Office.
2. Acknowledgement issued by S.D.O. vide his No.....dated
3. Remarks of S.D.O.  
(on the reasons given by the contractor are correct and what extension, if any, is recommended by him. If he has not recommended the extension, reasons for rejections should be given.)

Signature of Divisional Officer  
Dated:

#### **(To be filled in by the Executive Engineer)**

1. Date of receipt in the Divisional Office.
2. Executive Engineers remarks regarding hindrances mentioned by the Contractor.
  - (1) Serial No.
  - (2) Nature of hindrance
  - (3) Date of occurrence
  - (4) Period for which hindrance is likely to last
  - (5) Extension of time applied for by the contractor
  - (6) Overlapping period, if any, giving reference to Items which overlap.
  - (7) Net period for which extension is recommended
  - (8) Remarks as to why the hindrance occurred  
And justification for extension recommended.
3. Executive Engineer's recommendations:  
(The present progress of the work should be stated and whether the work is likely to be completed by the date upto which extension has been applied for. If extension of time is not recommended, what compensation is proposed to be levied under clause 2 of the agreement?)

Signature of Executive Engineer  
Date

Dy. HOD/SE's recommendations

Signature of Superintending Engineer  
Date

HOD's recommendations/approval.

Signature of Chief Mechanical Engineer  
Date  
Deendayal Port Authority

# **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

## **SECTION-V**

### **Scope of Work & Technical Specification**

#### **SCOPE OF WORK**

The scope of work envisages the following. Bringing of all materials at site, assessment of site requirement, carrying out of site survey and check survey, etc.

One number of Jyoti make VCB will be installed at GETCO substation along with their existing one as per GETCO/DPA requirement along with outdoor type combined CT/PT unit (CT of 0. 2S accuracy & PT of 0.2 accuracy , along with two numbers of ABT meter. Ratio of CT shall be 250/5A with relevant IS as per GETCO specification.

#### **PART-A**

##### **1. Technical Specification No.1 of Part-A:**

**Supply, Installation, Testing and commissioning of 11KV overhead line With 100mm<sup>2</sup> AAAC Conductor with wind pressure 100kg/m<sup>2</sup> on RSJ 9mtr pole (Approximate span of 30m)**

Supply, Installation, testing and commissioning of 11kv line with 100 mm<sup>2</sup> aac conductor(dog) with wind pressure 100 kg/m<sup>2</sup> on RSJ pole-9 mtr (approximate span-30 mtr). This includes supply at site & stringing of stranded AAAC conductor code name DOG of size 100sqmm as per Indian Standard Title International Standard IS:398 (Part-IV) Aluminum Alloy IEC : 208-1966 stranded conductor BS-3242-1970 IS : 9997-1988 Aluminum Alloy Redraw Rods IEC 104- 1987 IS : 1778-1980 Reels and Drums for bare conductors BS:1559-1949 in a minimum length of 2000meters length in wooden drum, the conductor manufacturing batch shall be of 2021 or latest and same shall be submitted along with necessary documents same is to be string on HT pin and strain insulators, binding on insulators, jumpering, the jointing in HT line will be done by twisting sleeve joints as per standard practice. Care must be taken in handling the conductor to protect against cuts, scratches or kinks. The conductor must not be drawn over hard surface ground, where it is liable to be damaged. AAAC conductors must be drawn on wooden or aluminum pulley only. Wastage and cutting should be avoided as far as possible.

Not more than 2% sag will be accepted in the materials account. The sag and spans and line erection/installation guidelines must be maintained as per PGVCL norms. Any 11kV line crossing on the way is also in the scope of the contractor and has to be executed as per the standard practice/norms of PGVCL with necessary accessories. This also includes painting with two coat of metal primer and three coat of silver paint, thereafter numbering the poles in 100mm round dia. This also includes planting the pole to 1/6th height in the ground strengthening with cement concrete and above ground level muffing is to be done. The quality of cement concrete and muffing method shall be as per Technical Specification no.2 of this document. The muffing type and method may be done as per the site requirement as per the instructions of Engineer-in-Charge in the case of special requirements as per the site.

The cross arms insulators must be so fixed that neither tilt nor bend from position. The rate quoted should be for three conductors along the route length kilometers

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

as per Annexure-I Bill of Quantities. The sagging should be uniform for all conductors and uneven sagging will not be allowed. The ground clearance and line to line clearances, etc. have to be maintained as per latest IE Rules.

The land is soft, muddy type marshy land where poles are to be erected after excavation for erection of poles, a PCC carpet of 50mm thick shall be provided at the bottom and cured before erection of poles.

The vegetation below the line shall be removed by the contractor. The contractor shall prepare the drawing of the line work (5 copies) and shall submit all the required documents which are required for getting clearance from CEA. However, the submission, uploading of documents and payment of statutory charges are in the scope of DPT.

The relay co-ordination is in the scope of contractor. The bidder is suggested to visit the site for ascertaining actual requirement of items.

The below table indicates tentative (but not limited) items to be used for 1km of 11kV line for reference:

SR	PARTICULARS (for per km route length)	UNIT	QTY
1	9 MTR RSJ POLE (minimum 116mmX100mmX10mm)	NO.	35.00
2	11KV V CROSS ARM.(From Angle of 65X65X6) <b>MS with Hot Dip Galvanization</b>	NO.	35.00
3	Side clamp(65x65X6 <b>MS Angle with Hot Dip Galvanization</b> )	NO.	70.00
4	HT TOP fittings ( angle from 65x65X6 M.S -150MM) <b>with Hot Dip Galvanization</b>	NO.	35.00
5	(a) Anchor rod - 1 No.	NO.	4.00
6	(b) Turn buckle - 1 No.	NO.	4.00
7	(c) Eye Bolt - 1No (16mmX590 mm Round Bar).	NO.	4.00
8	(d) Stay wire- 7/12	KG	13.60
9	(e) HT Guy Insulator - 1 No.	NO.	4.00
10	(f) Guy Clamp - 1 Set.	SET	5.00
11	(a ) GI Wire No. 8 From Pole Top to Earthing Coil	KG	48.00
12	(b) Rigid PVC Pipe -20mm dia ( 1.5 Mtr) - 1No	NO.	35.00
13	( c) Earthing Bolt	NO	35.00

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

14	(d) Earthing Coil (GI Wire No 8)	NO	35.00
15	Barbed wire	NO.	35.00
16	CAUTION & DANGER BOARD.	NO.	35.00
17	(a) 22 KV Pin Insulator	No	105.00
18	(b) 22 KV GI Pin	No	105.00
19	(a) 11 KV Ball & Socket Type Comp(Polymer) Insulator(Long Rod)	NO.	24.00
20	(b) 11 KV Disc. Hardware with Hot Dip Galvanization	Set	24.00
21	AL.ALLOY CONDUCTOR 100 MM2 SIZE.	KM.	3.09
22	(a) M.S. Bolts & Nuts 65x16mm with Hot Dip Galvanization	KG	1.60
23	(b) M.S. Bolts & Nuts 180x16mm with Hot Dip Galvanization	KG	35.60
24	(b) P.G. Clamp for 'DOG' Connectors 100 sq.mm	No	24.00
25	(c) Alu. Binding wire	KG	0.90
26	(d) HT Tape	Mtr	18.00

**Note:** Above table is just for reference and summarizes minimum requirement of materials for the 1km Route length. Actual quantity may be envisaged for total route length as per Annexure-I Bill of Quantities using reference the above table. Any item with MS has to be Hot Dip Galvanized.

## 2. Technical Specification No. 2 of Part-A.

**Supply, Installation, Testing and commissioning of Cement Concreting of 1:2:4 ratio mixtures for Poles / Guys including CC for Poles and Guys as per site requirement**

The work includes concreting with one part of cement, two parts of specified quality sand and four parts of grit (1:2:4). The mixture should be prepared on Glsheet and should be free from the dust. Cement river sand and metal should be used by contractor at his own cost. Concrete for muffing of poles and stay rods should be cement one part, sand two parts and four parts of Metal (1:2:4). Cement, sand and metal must be got approved from our civil department and work execution will also be in there scope regarding cement concrete. The concrete shall be used in above proportion and should be thoroughly mixed at least three times in dry state before water is added and as far possible a fairly wet mixture must be used all concrete must be mixed on watertight platform. In any case, the work finishing coat of cement plaster should be applied on outer surface of the smooth.

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

One finishing coat of cement plaster should be applied on outer surface of the muffing. The concrete block, when slightly dried, should be kept wet continuously for period of 10 days. If the concreting work is not found as per the specifications and quality, the same is liable to be rejected. The cement concreting work and muffing has to be done in the presence of DPT representative only and work done in his absence will be rejected and no payment made thereof. The cement, sand, metal grit shall be procured by the contractor. The normal size of concreting/muffing of pole will be minimum 2mx0.6mx0.6m per pole and size of concreting/muffing for stay will be minimum 1.2mx0.6mx0.6m. The concreting of poles, Double pole structures and guys is included in this work.

### 3. Technical Specification No.3 of Part-A.

#### Supply, Installation, testing and commissioning of Stay Set (Extra) with Erection

The work includes the supply, installation of additional stay set for 9mtr RSJ pole. Work comprises of anchor rod, turn buckle, eye bolt and excavation of suitable pit 4' deep, fixing of stay clamp on pole, binding of GI stay wire. These additional guy sets are over and above the guys sets that are already included as a part of items under Annexure-I Bill of Quantities item no.1 as per Technical Specification no.1 and item no.4 as per Technical Specification no.4. The location of these additional guy sets will be decided as per the site conditions as per the decision of Engineer-in-Charge Deendayal Port Trust.

The stay insulators must be inserted in the stay wire on all stays as per standard practice. The wrapping of the Guy wire strands at both ends. The stay insulator must be even and must present neat appearance and with good workmanship. No stay should be left loose but should be tight and straight to withstand in say cyclone or storm of 200Kmph, the item includes refilling by cement concrete mix of ratio 1:2:4.

If stays are not required to be concreted, second option is a pre casted cement concrete block may be made by contractor will have to transport at his owncost to the site of work and will have to use for fixing of anchor rod at site. The work includes all material and labour and to the entire satisfaction of Engineer-in- charge.

The below table indicates tentative items to be used per pole for supply, installation of addition stay set of 11kV line as per PGVCL norms:

SR	PARTICULARS	UNIT	QTY
1	(a) Anchor rod - 1 No.	NO.	2.00

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

2	(b) Turn buckle - 1 No.	NO.	2.00
3	(c) Eye Bolt - 1No (16mmX590 mm Round Bar).	NO.	2.00
4	(d) Stay wire- 7/12	KG	6.80
5	(e) HT Guy Insulator - 1 No.	NO.	2.00
6	(f) Guy Clamp - 1 Set.	SET	2.00

**Note:** Above table is just for reference and summarizes minimum requirement of materials for the one guy set. Actual quantity may be envisaged as per Annexure-I Bill of Quantities using reference the above table. Any item with MS has to be Hot Dip Galvanized.

### 4. Technical Specification No.4 of Part-A.

#### **Supply, Installation, Testing and commissioning of DP structure with 11KV A.B. Switch & D.O. Fuse on 9MTR RSJ POLE**

The work involves Supply, Installation, Testing and commissioning of DP structure with 11KV A.B. Switch & H.G Fuse on 9 MTR RSJ POLE. The Double pole structures have to be firmly installed on the site and two layers of anticorrosive coating and three layers of high quality paint with best workmanship is to be done. This also includes painting numbering the poles in 100mm round dia. Double pole structure should be solidly earthed from two points with individual earthing and a 'Danger' sign board should be provided on the Double Pole structure as instructed by Engineer in Charge.

The below table shows tentative items (but not limited) to be used for this work. The same may be used for reference. However, the bidder is suggested to visit the site for ascertaining actual requirement of items.

<b>SR</b>	<b>PARTICULARS (For One DOUBLE POLE STRUCTURE WITH 11 KV A.B.SWITCH &amp; DO FUSE ON 9MTR RSJ POLE)</b>	<b>UNIT</b>	<b>QTY</b>
1	9 MTR RSJ POLE (minimum 116mmX100mmX10mm)	NO.	2
2	M.S.Angle Top FABRI.65x65x6mm - 2750mm <b>MS with Hot Dip Galvanization</b>	NO.	2
3	M.S.Angle 11 KV A.B.Switch - Fabri 65x65x6mm-2750mm	NO.	4
4	M.S. Angle Fabri. 65x65x6mm - 2750mm for cross bracing	NO.	4

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

5	11 KV A.B. SWITCH 400 AMP.	SET	1
6	Side Clamps for mounting A.B Switch (M.S Flat of size 50X6)	NO.	16
7	(a) Anchor rod - 1 No.	NO.	4
8	(b) Turn buckle - 1 No	NO.	4
9	( c ) Eye Bolt - 1No(16mmX590 mm Round Bar)	NO.	4
10	(d) Stay wire- 7/12	KG	11.2
11	(e) HT Guy Insulator - 1 No.	NO.	4
12	(f) Guy Clamp - 1 Set.	SET	4
13	(a ) GI Wire No. 8 From Pole Top to Earthing Coil	KG	2.32
14	(b) Rigid PVC Pipe -20mm dia ( 1.5 Mtr) - 1No	NO.	2
15	( c ) Earthing Bolt	NO.	2
16	(d) Earthing Coil (GI Wire No 8)	NO.	2
17	(a) 11 KV Porcelyn Disc Insulator	NO.	12
18	(b) 11KV Disc. Hardware	SET	6
19	11 KV COMPOSITE POLYMERIC D O FUSE	NO.	3
20	(a) M.S.Bolts & Nuts 65x16mm	KG	7.2
21	(b) M.S.Bolts & Nuts 180x16mm	KG	2.49
22	(c) P.G.Clamp for 'Dog' Conductor	NO.	9
23	(d) Binding tape HT for jumpering	MTR	20
24	(e) Alu. Binding wire	KG	0.5

**Note:** Above table is just for reference and summarizes minimum requirement of materials for one DP structure with 11KV A.B. Switch & D.O. Fuse on 9MTR RSJ POLE. Actual quantity may be envisaged for as per Annexure-I Bill of Quantities using reference the above table. Any item with MS has to be Hot Dip Galvanized.

### 5. Technical Specification No.5 of Part-A.

**Supply at site XLPE 3Cx185sqmm insulated armoured aluminium conductor cable**

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

The work includes Supply at site 3CX185 Sq. mm 11kV HT XLPE insulated, aluminum conductor armored cable as per IS 7098 (P-I) 1985, in this regard contractor shall submit the relevant documents. Before supplying the cable, contractor shall take approval for make. However, the cable make is mentioned in the approved make list of DPT. During the supply of the cable, firm shall produce the Type Test, Routine Test certificate at site. Unless otherwise specified, the cable shall conform in all respect to IS: 7098 (Part-II)-1985 with latest amendment thereof. 11 KV (E) Grade XLPE, 3-Core, power cable shall be of high conductivity, stranded compacted, H.D. aluminum circular shaped conductor with XLPE (cross linked Poly Ethelene) provided with shielding of extruded semi-conducting materials over conductor and XLPE insulation. Each insulated core shall have copper tape screen, laid together and provided with common covering of PVC InnerSheath (Extruded). Overall galvanized steel strip armour and PVC outer sheath shall be provided. The specification for manufacture of cable shall be conforming to IS: 7098 (Part-II) 1985 (latest edition) for 11KV (E), 3-phase, 50 Hz. Earthed systems.

Outer sheath shall be designed to afford high degree of mechanical protection and shall also be heat, oil, chemical and weather resistant, Common acid, alkalis and sealing solution shall not have adverse effect on material of PVC sheath. Cable shall be suitable for laying in covered trenches or FRP cable trays or buried under- ground in outdoor. The cable conductor shall be made from high conductivity stranded High Density aluminum to form compacted circular shaped conductor having resistance within limits specified in IS: 8130/1984 and any latest amendment to it. The conductor having semi-conducting screen shall ensure perfectly smooth profile & avoid concentration of stress. The conductor screen shall be extruded in the same operation as the insulation. The semiconducting polymer shall be cross linked.

The insulation shall withstand mechanical and thermal stress under steady state and transient operating conditions. The extrusion method should give very smooth interface between semi-conducting screen and insulation. The insulation of the cable shall be of high standard quality generally conforming to IS: 7098 (Part – II) – 1985 and any latest amendment to it.

### Cable Parameters :

		<u>11 KV</u>
(i)	Voltage grade (U <sub>0</sub> / U) KV	: 6.35 / 11
(ii)	Cores (Nos)	: 3
(iii)	Nominal system voltage KV	: 11
(iv)	Highest system voltage KV	: 12
(v)	System frequency Hz	: 50
(vi)	Variation in frequency %	: ± 3
(vii)	(a) Maximum allowable temp. of conductor during continuous normal operation at rated full load current. °C	: 90
	(b) Maximum allowable temp. under short circuit condition °C	: 250
(viii)	1.2/50 microsecond lightning impulse withstand voltage wave value. KVp	: 75
(ix)	5 Min, Power frequency withstand voltage KV rms	: 17
(x)	System earthing	Effectively Earthed



## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

Non-metallic semi-conducting shield shall be provided over the insulation to confine electrical field to the insulation. The insulation shield shall be extruded in the same operation as the conductor shield and the insulation by suitable extrusion process. The XLPE insulation shield shall be of tanded type. The copper metallic overlapped tape shield shall be provided.

Fillers and Inner-sheath should be confirming to IS: 7098(Part-II)-1985. The sheath shall be suitable to withstand the site conditions and the desired temperature. It shall be of consistent quality and free from all defects. The PVC sheath shall be extruded. The material of fillers and inner-sheath shall be compatible with the temperature ratings of the cable and shall have no deleterious effect on any other component of the cable. Central filler shall also, be provided with other peripheral fillers to have proper circular section.

Armouring of galvanized steel strip shall be provided. The dimensions of steel strips shall be as per latest edition of IS: 3975 – 1979.

Extruded type ST-2 PVC outer-sheath, conforming to IS: 5831-(1984) (latest edition) over armouring with suitable additives (to prevent attack by redents & termites), shall be provided.

The cable shall have suitable fillers laid up with insulation cores to have subsequently circular cross-section before the inner sheath is applied. The fillers shall be suitable for operating temperature of the cable.

All materials used in manufacturing of cable shall be new, unused and of finest quality. All materials should comply with the requirements / tests as per applicable IS / IEC specification, Indian Electricity Rules and any other statutory provision of rules & regulations.

The PVC material used in the manufacture of cable shall be of reputed manufacturer. No recycling of PVC is permitted. The purchaser reserves the right to ask for documentary evidence of the purchase of various materials, (to be used for the manufacture of cable) as per checking of quality control. Quality Assurance plans shall be submitted.

The indicative values of continuous current carrying capacities at Maximum conductor temperature of 90°C (for design purpose by field) of 3 core 185 sq.mm cable, Continuous Current Carrying Capacity (For 11 KV cable) 270A in Ground and 310A in air. Short circuit rating for 185sqmm Conductor should be 17.4 kA (rms).

The current rating shall be based on maximum conductor temperature of 90 degrees with ambient site condition specified for continuous operation at the rated current. Cable shall be suitable for operation under frequency variation of +3% and voltage variation of +10% to -15% and combined frequency - voltage variation of 10% (absolute sum).

The bidder shall have to submit, well in advance, the test certificates for the following routine test for approval prior to inspection of the materials for the complete lot offered for inspection at a time. (a) Conductor resistance test (b) Partial discharge test (c) High-voltage test for 5 minutes [as per Clause 19.7.2

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

of IS: 7098 (Part-II) – 1985]. DPT reserves the right to insist for witnessing the acceptance / routing tests of the bought out items.

### **6. Technical Specification No.6 of Part-A**

**Laying of Double circuit (two parallel cables) 3CX185 Sq.mm (E) XLPE Cable through Hard/Soft Soil Excavation and laying through Half Round Pipe (2 Nos.) 6" inner Diameter and 1 Meter length**

The work includes laying of 3Cx185sqmm underground cable. For any length of cable that extends beyond the standard drum length of the cable, such extension has to be done with proper cable joining kits and techniques as per latest IE standards with excellent workmanship. All the cable ends that terminate at pole structures should be brought out from the ground only in HDPE pipes of appropriate size carrying single individual cable inside each HDPE pipe. The cable end should be terminated as per standard practice as per IE rules with best workmanship. Tagging of the cables with precise nomenclature is mandatory.

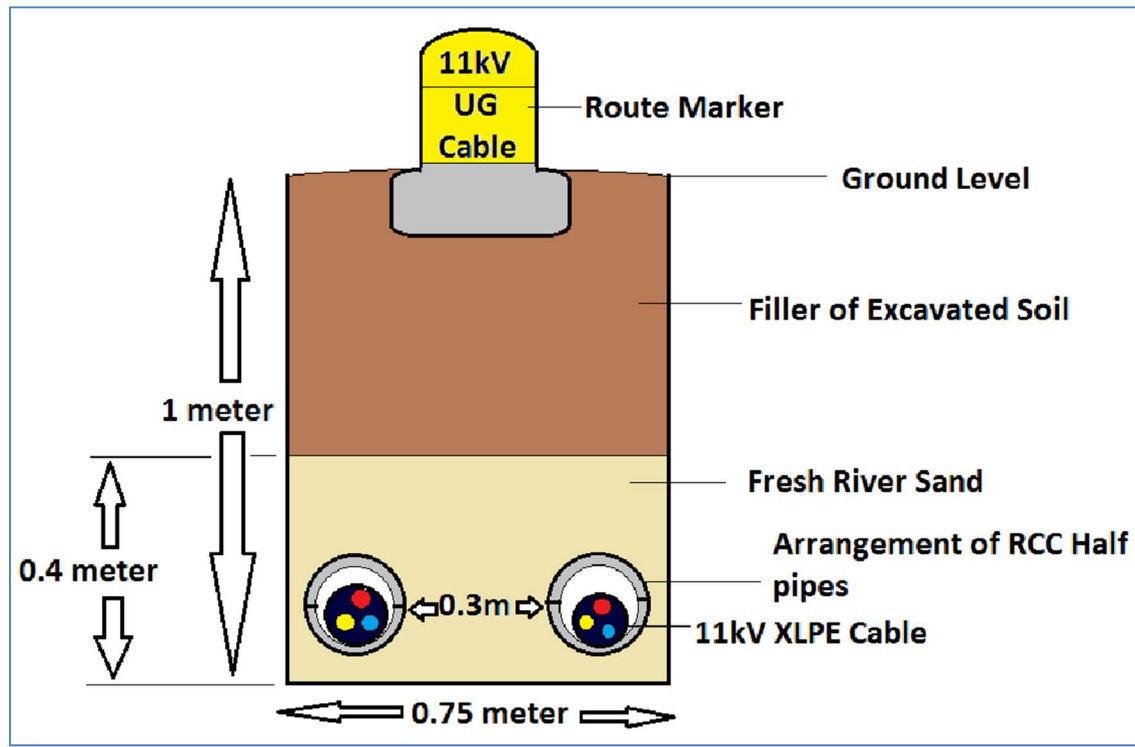
The vegetation on the way of laying the cable shall be removed by the contractor. The contractor shall prepare the drawing of the line work (5 copies) and shall submit all the required documents which are required for getting clearance from CEA. However, the submission, uploading of documents and payment of statutory charges are in the scope of DPT. The relay co-ordination is in the scope of contractor.

This includes laying of double circuit 3 core x 185 Sq.mm HT armored aluminum Conductor XLPE Cable of 11KV Grade (excluding supply of cable) through excavation of trench 0.75 meter wide and 1 meter deep in soft/hard soil. Each cable should be placed inside RCC Half Round Pipe of 6" inner Dia and 1 Meter length and such RCC Half Round Pipes must be placed in such a fashion so as to provide support under the cable with one half and covering over the cable with the other half. The same trench would be used to place two circuits (cables) side by side in horizontal fashion and these cables would run through two RCC pipes individually. The minimum distance between such RCC pipes throughout the route length should be 0.3m.

The bed of 50mm of river sand shall be provided in the bottom of the excavated trench. The RCC Pipe shall be laid over the bed of river sand. This includes filling of gaps by fresh river sand and filling the trench up to at least 400mm height from bottom by fresh river sand. The remaining filling of the trench shall be done with the excavated stuff & should be watered and rammed properly to its original position. The excess excavated stuff shall be disposed off from the Site of work and spread in low lying areas as directed by Engineer in Charge or his nominee. The contractor shall provide heat shrinkable straight through joints of relevant size of approved make if the laying of cable shall be more than standard drum length. This includes all labour and material as directed by Engineer-in-Charge. Such cable joints shall be under the scope of work of the contractor at no extra cost or obligation from DPT. Such cable joining work is completely to be done by the contractor at his own cost.

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

The below figure indicates the expected arrangement of laying of cables:



### CABLE ROUTE AND JOINT MARKERS

- Permanent means of indicating the positions of joints on site should be provided. During the course of permanent reinstatement cable and joint markers, should be laid directly above the route of the cable and the position of the joint respectively.
- Wherever it is not possible to place the marker directly over the cable route or joint the marker should be suitably placed near the cable route or joint on which the distance of the cable route or joint at right angles to and parallel to the marker should be clearly indicated.
- The site requirement & position of fixing the markers will be decided by the Engineer-In-charge or his nominee.
- The type of route marker & letters to be written on the route marker will be decided while execution by the Engineer-in-charge.
- Route marker should be visible and the pedestal should be buried underneath the ground firmly by providing CC foundation.
- Route Marker of C.C. (1:2:4) 150x150x750 (in mm) Concrete Stone (DPT Mark with Approved Yellow Color Embedded in Earth at least 300

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

mm below the ground Level at Approx. Distance 10 Meter or as directed by EIC

Cable laying, shall include the route marker, cable tagging, dressing, removing the old unused cable from the RCC Trench, appropriate size of glands & ferrule works as per requirement etc.

### **7. Technical Specification No.7 of Part-A**

#### **Laying of Double circuit (two parallel cables) 3CX185 Sq.mm (E) XLPE Cable through RCC/Road/Rail Crossing by Putting Suitable HDPE pipe in between Crossing**

This includes Laying 3 core x 185 Sq.mm 11kV XLPE cable by putting suitable diameter HDPE pipe, through road/Rail/RCC crossing. If the Road/RCC crossing length more than length of HDPE seamless pipe, then the firm shall join pipes and make a strong and trouble free connection so that pushing and pulling of cable within such pipes is unaffected and fuss free & then lay across the Rail/Road crossing. Single cable shall be passed through one pipe, the excavated stuff shall be disposed off from the Site of work and spread in low laying area.

In case of Rail Crossing, firm shall put earthing across rail track, both end, their own cost as per IE rule & act. The HDPE pipe should be laid using Horizontal Boring using Horizontal auguring machine for all the Road/Railway/RCC crossings.

Cable lying, which shall include the route marker, cable tagging, dressing, removing the old unused cable from the RCC Trench, appropriate size of glands & ferrule work as per requirement etc. The entire work including follow up action with various authorities shall be in the scope of contractor. However, the statutory payment will be made by DPA.

### **8. Technical Specification No.8 of Part-A**

#### **Supply, fixing and testing of Outdoor Cable Termination kit for 11kV 185sqmm XLPE Cable**

This includes providing & making outdoor end Termination kit on HT (11 KV) 3CX185 Sq.mm (E) cable at both end for all three phases, HT Joint shall be carried out by certified jointer. Make:- 3M, Raychem, Mahindra, Compaq. This work includes all labour and material as directed by Engineer-in-Charge. The Heat Shrinkable Outdoor Termination offered shall be complete with all parts necessary for their effective and trouble-free operation. Such parts will be deemed to be within the scope of the supply irrespective of whether they are specifically indicated. It is not the intent to specify herein complete details of design and construction of Heat Shrinkable Outdoor Termination. The Heat Shrinkable Outdoor Termination offered shall conform to the relevant standards and be of high quality, sturdy, robust and of good design and workmanship complete in all respects and capable to perform continuous and satisfactory operations in the actual service conditions at site and shall have sufficiently long life in service as per statutory requirements. The Heat Shrinkable Outdoor Termination offered

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

shall be reliable, fast and easy-to install jointing termination system to assure and maintain high network reliability in the most severe conditions and under high electrical, thermal, mechanical and environmental stress. The design, manufacture and performance of the Heat Shrinkable Outdoor Termination shall comply with all currently applicable statutes, regulations and safety codes. Nothing in this specification shall be construed to relieve the bidder off his responsibilities. Unless otherwise specified, the Heat Shrinkable Indoor and Outdoor Termination offered shall conform to the latest applicable Indian, IEC, British, U.S.A. or International Standards and in particular.

The outdoor cable termination is to be mandatorily used for 11kV 185sqmm XLPE cables termination. The cable termination at pole structures should be done with HDPE pipe of suitable diameter and as per standard practice of PGVCL. Each such HDPE pipe should contain only one cable.

Applicable standards for Outdoor Cable Termination Kit:

Title	IS Standard	IEC Standard
Applicable IS Standard	IS 13573	
Power cables with extruded insulation and their accessories for rated voltages from 1 kV ( $U_m = 1,2$ kV) up to 30 kV ( $U_m = 36$ kV) - ALL PARTS	IS 7098 (Part-II) IS 13573,1992	IEC 60502
Heat shrinkable moulded shapes - Part 1: Definitions and general requirements	-	IEC 62329-1
Heat-shrinkable moulded shapes - Part 2: Methods of test	-	IEC 62329-2

### 9. Technical Specification No.9 of Part-A

#### Supply, fixing and testing of Indoor Cable Termination kit for 11kV 185sqmm XLPE Cable

This includes providing & making indoor end Termination kit on HT (11 KV) 3CX185 Sq.mm (E) cable at both end for all three phases, HT Joint shall be carried out by certified jointer. Make:- 3M, Raychem , Mahindra , Compaq. This work includes all labour and material as directed by Engineer-in-Charge. The Heat Shrinkable Indoor Termination offered shall be complete with all parts necessary for their effective and trouble-free operation. Such parts will be deemed to be within the scope of the supply irrespective of whether they are specifically indicated. It is not the intent to specify herein complete details of design and construction of Heat Shrinkable Indoor Termination. The Heat Shrinkable Indoor Termination offered shall conform to the relevant standards and be of high quality, sturdy, robust and of good design and workmanship complete in all respects and capable to perform continuous and satisfactory operations in the actual service conditions at site and shall have sufficiently long life in service as per statutory requirements. The Heat Shrinkable Indoor Termination offered shall be reliable,

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

fast and easy-to install jointing termination system to assure and maintain high network reliability in the most severe conditions and under high electrical, thermal, mechanical and environmental stress. The design, manufacture and performance of the Heat Shrinkable Indoor Termination shall comply with all currently applicable statutes, regulations and safety codes. Nothing in this specification shall be construed to relieve the bidder off his responsibilities. Unless otherwise specified, the Heat Shrinkable Indoor Termination offered shall conform to the latest applicable Indian, IEC, British, U.S.A. or International Standards and in particular.

The Indoor cable termination is to be mandatorily used for 11kV 185sqmm XLPE cables termination. The cable termination at pole structures should be done as per standard practice of PGVCL.

Applicable standards for Indoor Cable Termination Kit:

Title	IS Standard	IEC Standard
Applicable IS Standard	IS 13573	
Power cables with extruded insulation and their accessories for rated voltages from 1 kV ( $U_m = 1,2$ kV) up to 30 kV ( $U_m = 36$ kV) - ALL PARTS	IS 7098 (Part-II) IS 13573,1992	IEC 60502
Heat shrinkable moulded shapes - Part 1: Definitions and general requirements	-	IEC 62329-1
Heat-shrinkable moulded shapes - Part 2: Methods of test	-	IEC 62329-2

### 10. Technical Specification No.10 of Part-A

**Supply and installation of Earthing coils at each end of the cable individually for each cable**

The work includes supply and installation of Earthing coils at each end of the cable individually for each cable. Earthing coils shall be fabricated from soft GI Wire Hot Dip Galvanized. The Hot Dip galvanized wire shall have clean surface and shall be free from paint enamel or any other poor conducting material. The coil shall be made as per REC constructions standard. The Hot Dip galvanizing shall conform to IS: 2629/1966, 2633/1972 and 4826/1969 with latest amendments.

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

### **DIMENSIONAL REQUIREMENT:-**

Nominal dia. of GI Wire -4 mm (Tolerance $\pm$ 2.5%)

Minimum no. of turns – 115 Nos.

External dia of Coil (Min) – 50 mm

Length of Coil (Min) – 460 mm

Free length of GI Wire at one end coil (Min.) – 2500 mm

The turns should be closely bound. Weight of one finished Earthing Coils (min.) – 1.850 Kg.

### **11. Technical Specification No.11 of Part-A**

**Supply, Installation, Testing and Commissioning of 7 Way Gas Insulated Maintenance free RMU IP54 12kV 630A 21kA 3 sec with Robotically welded SS304 tank manufactured according to ISO 9001, 14001 and OHSAS 18001**

7 Way Gas Insulated Maintenance free outdoor 11kV RMU with IP54, 12kV, 630A, 21kA, 3 sec with Robotically welded SS304 tank manufactured according to ISO 9001, 14001 and OHSAS 18001 to be supplied and installed at/near Oil Jetty no.8.

The 7 way 11kV RMU to have the following minimum features:

- 2 Incoming ways
- 4 Outgoing ways
- 1 Spare way
- Appropriate CTs at Incoming as well as outgoing and spare as per latest applicable IS and as per latest PGVCL/GETCO practices
- MFM meters for all the ways
- The RMU shall be of Outdoor type

All equipments and materials shall be designed manufactured and tested in accordance with the latest applicable IEC standard. The electrical installation shall meet the requirement of Indian Electricity Rules 1956 as amended up to date; relevant IS code of practice and Indian Electricity Act 1910. In addition other rules and regulations applicable to the work shall be followed. In case any discrepancy, the most stringent and restrictive one shall be binding.

7 Way 11kV Gas (SF<sub>6</sub>) Insulated RMU with SF<sub>6</sub> Insulated VCB of suitable ratings for 2 nos. Incoming ways and suitable Circuit Breakers for 5 nos. Outgoing ways. The objective of the RMUs is for extremely small construction width, compact, maintenance free, independent of climate, easy installation, operational reliability, Safe and easy to operate, minimum construction cost, minimum site work and minimum space requirement. The RMUs shall conform in all respects to high standards Of Engineering design, workmanship and latest revisions of relevant standards at the time of offer.

- Necessary current sensors / transformers for protection and metering (wherever required).



## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

- All necessary dry (potential-free) contacts for indications relevant to RMU monitoring status and control.
- A PT Panel including auxiliary power transformer for measurement of system voltage and for charging the batteries.
- Battery and battery charger, to provide stable power as per motor rating, 24 VDC, power for the RMU's motors.
- Capacitor voltage dividers serving live-line cable indicators and all the indicators shall have to be visible from outside without opening the doors.
- The incomer CTs (3 nos. in each feeder) shall be circular with 300- 150/5A and the outgoing shall be provided with circular CTs (3 nos. in each) with 100-50/5A ratio with 5VA load for all the CTs.

The RMU and combination shall be tropicalised and outdoor metal enclosed type. The RMU metal parts shall be of high thickness, high tensile steel which must be grit/short blasted, thermally sprayed with Zinc alloy, phosphate or should follow the 7 tank pretreatment process and be subsequently painted with polyurethane/PP based powder paint. The overall paint layer thickness shall be not less than 80 microns. Relevant IE rules for clearances, safety and operation inside the enclosure shall be applicable. The enclosure shall be IP 54 and type tested for weather proof at EREDA/CPRI. All live parts except for the cable connections in the cable compartments shall be insulated with SF<sub>6</sub> gas. The SF<sub>6</sub> gas tank shall be made of robotic or TIG or MIG welded stainless steel, to have the best weld quality. The gas cubicle shall be metal enclosed with stainless Steel of thickness as per IEC tested/ designed so as to provide safety and to avoid leakage of gas and should be provided with a pressure relief arrangement away from operator.

The cable termination chamber of isolators and circuit breakers both should be of front access type as per site requirement. Any accidental over pressure inside the sealed chamber shall be limited by the opening of a pressure-limiting device in the top or rear-bottom part of the tank or enclosure. Gas will be released to the rear of the switchboard away from the operator and should be directed towards the bottom, into the trench to ensure safety of the operating personnel and the pedestrians / civilians. All the manual operations should be carried out on the front of the switchboard.

Fixed type SF-6 gas insulated / Vacuum circuit breakers. It should be maintenance free, having stainless steel robotically/ TIG / MIG welded enclosure for RMU.

- Low gas pressure devices- 1.3 Bar pressure. 1.3 bar pressure of SF<sub>6</sub> gas in chamber of RMU is required.
- The manufacturer shall give guarantee for maximum leakage rate of SF<sub>6</sub> gas will be lower than 0.1 % per year. SF<sub>6</sub> gas leakage rate should not exceed **0.1% per annum** after guarantee period. In case of Gas Leak the GIS should have the capability to withstand dielectric strength at minimum 1.3 bar pressure.
- Live cable indicators- High operator safety.



## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

- Fully rated integral ear thing switch on each device.
- Back up relay with auxiliary supply (24V DC) shall be provided.
- For indoor Cable boxes should be front access and interlocked with earthswitch.
- Cable testing possible without disconnection of cables.
- Compact in dimension
- Circuit Breaker with back up relay with auxiliary supply (24V DC) shall be provided
- Low pressure, sealed for life equipment, can operate at "0" bar pressure.
- Cable ear thing switch on all switching device-standard, for operator safety.
- Enclosure with IP 54 standard protection for OUTDOOR RMU.
- All live parts should be inside a stainless steel enclosure for RMU & minimum 2 mm thickness of stainless steel robotically/TIG/MIG welded enclosure for RMU.
- Earth Fault, Over Current, etc. protection numerical relays with all appropriate configuration and other parameters to be installed.
- The relays shall have all the latest features with wide range of settings.
- Analogue Manometer gauge for gas pressure indicator is to be installed.
- Relay setting and co-ordination is in the scope of contractor.
- The RMU shall be provided with multifunction meter.
- The numerical relay shall be provided with RS485 facility to establish the connectivity with SCADA through modbus. The installation should be such that SCADA connectivity establishments can be retrofitted for the future needs.
- The CT ratings and accuracy class and tolerances for protection CT and measurement CT should be precisely as per latest applicable IE rules and standards. The CT should be bidirectional.
- The standard accuracy classes of current transformer as per IS-2705 is 0.5S for metering CT.
- The standard accuracy class for the protection current transformer, as per IS-2705 is 0.5S.

### **ELECTRICAL DATA:**

12kV - 28kV-1min Nominal voltage: 11

kVRated frequency: 50Hz

Rated current bus bars: 630A

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

Rated current cable switch disconnecter: 630A

Short time withstands current:

Cable switch Disconnector with interface C (400-bolt) bushing: 21kA RMS  
3sec Vacuum circuit breaker with interface C (400-bolt) bushing: 21kA  
RMS 3sec

Rated current for transformer T-off: 630A

Impulse withstands voltage: To earth and between phases:

95 kV Insulation level: Power frequency 1 min: 28 kV

### **Relay & Protection Scheme:**

Numerical Relay with Control Supply 24V DC, 50HZ. Phase current input Relay shall be suitable for 1A and 5A CT secondary (selectable at site) Relay shall be suitable for 2CT as well as 3CT connection. Ground current input Relay shall be suitable for residually connected CT input and also for CBCT input. The relay shall have provision for digital inputs, speed switch inputs. Communication System: the relay shall be equipped with RS485 for remote communication or for connection to DCS, SCADA or PLC. The relay shall be suitable for RS485 port for connection to Laptop and PC preferably of front. The relay shall support multiple / universal protocols for communication with any type of DCS / SCADA. Output relays having Minimum 4(four) programmable relays with contact rating 5A at 110V Dc continuous with latching option of output relays. The relay shall support minimum following protection elements. Triple pole instantaneous over current in all three phases (equivalent to CAG-37). Sensitive earth fault protection (equivalent to CTUM -15). Shot circuit protection. Instantaneous Earth fault. Relay can operate Inst., definite time and Inverse type protection of over current. S/c and earth fault. Inst. under voltage relay (Incomer) Master tripping.

All relays and timers in protective circuits shall be flush mounted on panel front with connections from the inside. They shall have transparent, dust tight cover, removable from the front. All protective relays shall have for easy replacement. They shall either have built-in test facilities or shall be provided with necessary test blocks and test switches located immediately below each relay. The auxiliary relays and timers may be furnished in non-draw out cases. The contact multiplying auxiliary relays if any may be located inside the auxiliary compartment and may be of fixed type.

### **Module Description:**

Each circuit breaker module shall have the following accessories: Two core current transformers in each phase. One core balance Current transformer (CBCT). Protection relay shall be provided Numerical type with instantaneous relay 3 phase o/c, S/C, earth fault, definite time o/c, Inverse type. Meters shall be digital type with Amps, Volts, Frequency, P.F KWh, KVAR etc. Indicating LED lamps, red, green, blue with series resistor. Anti-pumping relay spring charging motor with its protection and control. Auxiliary contacts. Terminal blocks.

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

Out of 7 ways, two would be used for incoming and five for outgoing. All the modules shall be erected by using suitable size of GI channel foundation bolts including grouting of the bolts of each panel. Each panel shall be connected with 2 separate and distinct Earthing. After installation of GIB panel, necessary test and trial are to be carried out for proper functioning of safety, devices, relay etc. and before charging panel all the tests required under relevant ISS and IEC – Rules 1956 shall be carried out and the result shall be in conformity with specifications and copies of test results shall be furnished to Engineer-in-Charge. The complete work shall be carried out as directed by Engineer-in-Charge. The side cable fix/adopter box wherever necessary/required shall be provided. The work includes all Labour & material required for installation & commissioning of 4way RMU and shall be done as directed by Engineer-in-Charge.

The CT, PT shall be Tested in ERDA Lab and in this regard contractor shall submit the Test Report of CT, PT. Works comprise with all material, licensing, labour tolls & tackles as directed by Engineer-in-Charge. The panels of RMU should be properly labeled with reflective red coloured strickers/radium paint as directed by Engineer-in-charge.

### **12. Technical Specification No.12 of Part-A.**

#### **Supply, Installation, Testing and Commissioning of 250kVA 11/0.43kV Outdoor Type Compact Substation with HT Panel, Transformer, LT Panel, Protection and Metering Device, etc. and other relevant accessories in a suitable enclosure with IP54**

Supply, Installation, Testing and Commissioning of Outdoor Type Foundation Mounted Compact Substation of 11kV/415 Volts, equipped with 250kVA Cast Resin Dry Type Transformer, 630A at 11KV fault making load breaking switch with one as SF6 Circuit Breaker for the primary side controls & with MV 800A Air Circuit Breaker as secondary side control. The components shall be enclosed, by either common enclosure or by an assembly of enclosure. All the components shall comply with their relevant IS/IEC standards Protection with Metering Device. This includes all labour and material as directed by Engineer-in- Charge.

#### **The Outdoor Package:**

- Single integrated metal housing, comprising three compartments accommodating:
- HV switchgear (Protection degree of this compartment: IP65)
- Transformer (Protection degree of this compartment: IP65)
- LV switchgear (Protection degree of this compartment: IP65)

#### **Enclosure of Compact Substation:**

- The Outdoor enclosure of compact Substation shall be fabricated from Galvanized sheet steel 2mm thick build on heavy channel skid frame tropicalized to local weather conditions.
- Four nos. of Lifting lugs to be provided on top to enable lifting total package unit without any problem for site handling / lifting by crane. The metal base shall ensure rigidly for easy transport and installation to withstand the weight of the Transformer, MV & LV component.
- Ventilation openings shall be so arranged or shielded that same degree of

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

specified for enclosure is obtained to reduce the equipment ambient temperature and prevent heating through the roof due to sun radiation the roof is to be made of double layer with foam insulation in between.

- The roof of the CSS should be Removable canopy type made from 2 mmthick Galvanized sheet metal with 10-degree Slope.
- Separation between RMU & transformer compartment and Separation between Transformer compartment & L.V compartment should be made from 2mm thick G.I sheet steel.
- The covers and door are the part of the enclosures when they are closed they shall provide the degree of the protection specified for the enclosure. All cover, doors or roof shall be provided with locking facility. The doors shall open outward at an angle of at least 90 degree and to be equipped with a device able to maintain them in an open position.
- Gland plate for RMU compartment should be made from 3mm thick M.S plate suitable for 3C x 185 Sq.mm XLPE cable 2 no's. The gland pate should be Split type.
- Gland Plate for LV Compartment should be made from 3mm thick M.S plate suitable for 4 nos. outgoing cable. The gland pate should be Split type
- The space between Transformer, MV component and LT component shall be provided in accordance with latest IEC recommendations standard.
- The enclosure shall be made in such a way that the above components shall be accommodated and the accommodation of components shall be maintained as per IEC recommendation. The enclosure shall be tested by OEM as per Type Test and the relevant documents be submitted. This includes all labour and material as directed by Engineer-in-Charge.

### • HV Switchgear/TRANSFORMER CIRCUIT BREAKER:

a)	Type	Three pole operated simultaneously by acommon shaft
b)	No of phase	3
c)	Arc interruption in dielectric medium	SF-6
d)	Type of Charging, Mechanism:	Manual (spring assisted) as well as motorized with 230 VAC operated motor
e)	Continuous Rating	630Amp at ambient design 40 deg C
f)	Short Ckt Withstand	21 KA for 3Sec
g)	Fault making Capacity	52.5 KA
h)	Fault Breaking Capacity	21 KA minimum
i)	Current transformer	3 nos. epoxy cast Current Transformers with 15 VA burden STR of 21 KA for 3 second metering accuracy Class 0.5 and protection accuracy 10P10 and having of CTR 150/75/5A.

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

j)	Potential Transformer	3-phase draw out type PT of Ratio 11000/110 Volts of 50 VA burden to meet with auxiliary requirement with Class 0.5 accuracy including HT fuses on both incomer end.
k)	Protection Relay	Numeric type or updated version (Make: SCHNEIDER/ALSTOM/SIEMENS/C&S) with the protection of inverse, definite time, short circuit, over current, instantaneous and earth fault, master trip and trip supervision.
l)	Metering Compartment	Multi-Function meter having digital type (single) with voltage, current, PF, frequency, KW and KWH (Make – ENCRON/L&T / Conzerv)
m)	Accessories	2 sets of operating handle, spring charging handle, spanner set and other required accessories.
n)	Optional	One no. shunt trip and tripping coil operating on 12VDC. 2 nos. of space heater with ON/OFF switch and thermostat in each side of panel & Cable chamber

The SF-6 breaker shall be completed with necessary interconnection with fine wiring, ferruled properly including foundation bolts, earthing etc. The layout drawing, dimensional drawings and electrical wiring diagram and operation & maintenance manuals shall be supplied with SF-6 Breaker. The SF-6 breaker shall be supplied in conformity with relevant ISS i.e. with up to date amendments along with manufacturers test certificate. This includes all labour and material as directed by Engineer-in-Charge.

### • TRANSFORMER:

The transformer shall be fully tested for routine tests, as per BIS-1985. The tenderer shall furnish data regarding adequacy DIN of Transformer capacity.

a)	Transformer capacity	250 KVA (DRY TYPE)
b)	Primary voltage	11 KV +/- 10%
c)	Frequency	50 HZ
d)	No. of Phases	3
e)	Insulation Class	'F'
f)	Cooling	Natural Air
g)	Temperature	Max 115 C by RTD
h)	Percentage Rise	As per IS
i)	In winding	90 degree C
j)	Winding connection	Star/Delta
k)	Impedance	As per IS/BIS/DIN
l)	Vector Group	Dyn 11

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

m)	Neutral Grounding	HV ungrounded LV Solidly Grounded
n)	Winding material	Copper
o)	Noise Level	As per IEEE 141
p)	Vibration Level	3 G (min.)
q)	Painting	632 Shed of IS:5 or BIS/DIN Standard
r)	Tapping Range	+/- 5%
s)	Losses	Maintain as per IS/BIS/DIN
t)	Make	Siemens/Crompton/BHEL/Schneider

- **LV SWITCHGEAR.**

The L.V side should be designed to equip the following: -

**a) Low voltage Bus bar system**

The equipment shall have all the following features -

a)	LV bus bar	From transformer LV bushing to ACB and from ACB to MCCBs
b)	Bus bar size for phase & neutral	Tinned copper busbar, size shall be as per manufacturer design. <b>All the phases and neutral busbar shall be same rating / size.</b> Bus bar size for phase & neutral Suitable spreader to be provided at outgoing side of MCCB to connect 120sqmm cable through aluminum lug.
c)	Bus bar support	insulators 1 kV voltage class, SMC epoxy
d)	Bus bar sleeve	insulation Color coded, for 1kv
e)	Bus bar rated current	Suitable for 800A continuous current rating within the 10K class enclosure @ 400 C ambient temp
		ambient temp
f)	Bus bar short circuit	withstand 50 kA for 1 sec

- **Low voltage switchgear, ACB.**

The equipment shall have all the following features -

a)	Rated operational voltage (V) at 50 Hz	440V
b)	Rated frequency (Hz)	50Hz
c)	Current rating Amps (rms)	325Amps
d)	Rated insulation voltage (V) at 50 Hz	1000
e)	Number of poles	4
f)	Rated impulse withstand voltage(kV)	8

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

g)	Rated Ultimate Short circuit breaking capacity at 415 V, 50 Hz ( kA rms) Icu	50
h)	Rated Service Short circuit breaking capacity at 415 V,50 Hz ( kA rms), Ics	50
i)	Rated short circuit making capacity at 50Hz (kA peak), expressed as multiples of Icu	105
j)	Rated short time withstand current for 1 sec at 50 Hz (kA rms), Icw, expressed as percentage of Icu	50
k)	Category of utilization	B
l)	Shutters on 'Trip' & 'Close' push button with sealing facility	Yes
m)	Accessory mounting	Accessories shall be front accessible plug in type. Accessories namely motor shunt trip & closing coil, UVT etc. should be common for the entire range & shall be suitable for both AC & DC voltages.
n)	Operating mechanism	Spring charging stored energy type , manual & Automatic
o)	Mechanical life (Operating cycles)	20000
p)	Indications	Breaker shall have following mechanical indications: 1. ON, 2. OFF, 3. TRIP 4. SPRING CHARGE STATUS
q)	Sensing	True RMS based
r)	Type	Microprocessor based
s)	Control Terminal	Should be front accessible and minimum NO/NC contacts shall be provided for electrical interlocking.

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

t)	Protection	<u>Overload protection</u> Pick up 0.4 to 1.0 Time delay 0.2 to 40 sec <u>Short Circuit</u> Pick up 2 to 10 Time delay 20 to 400 Micro sec <u>Instantaneous Over current</u> Pick up 4 to 16 & <u>OFF Earth Fault</u> Pick up 0.2 to .6 & OFF Time delay 100 to 400 msec
u)	Metering required	Multi-Function meter for measuring 3 Ph current, 3 Ph Voltage, KWH, KVAH, Power Factor, Max Demand (KVA), Fault History of Minimum Events,
v)	Indication	Release shall give individual indication for each type of fault

### • Low voltage switchgear, MCCB.

a)	a) For 325 Amps b) For 160 Amps c) For 100 Amps. d) For 63 Amps	Outgoing feeders – 1 nos Outgoing feeders – 2nos . Outgoing feeders – 2 nos. Outgoing feeders – 4 nos
b)	MCCB rated voltage & Rated frequency (Hz)	415v +/- 10% at 50Hz
c)	Number of poles	4
d)	Current rating Amps (rms)	325/250/125Amps
e)	MCCB rated 3 phase short circuit breaking capacity $I_{cs} = I_{cu}$ Rated impulse withstand voltage (kV)	50/35/25/16 KV minimum at 415v and 50Hz
f)	MCCB rated 3 phase short circuit withstand capacity, $I_{cw}$	8kA/8KA/8KA /6 for 1sec
g)	Rated insulation voltage (V) at 50 Hz MCCB mechanical & electrical Endurance	1000 As per IS 13947 / IEC
h)	MCCB category of duty	B as per IS / IEC 947
i)	MCCB indications	ON, OFF & TRIP



## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

j)	MCCB protection	Adjustable / front accessible thermal and magnetic setting. (Thermal setting for overload adjustable from 70% - 100% of the rated current & magnetic setting for short circuit adjustable 4-10 times / 5-10 times).
----	-----------------	---

- **Safety Devices:**

Rubber Mats, Fire Extinguisher & First Aid Box should included along with the Compact Substation. The rate should be inclusive of all taxes, levies, service tax, VAT loading at manufacturer's depot, transportation and unloading at the site of work etc. This includes all labour and material as directed by Engineer-in-Charge.

### 13. Technical Specification No.13 of Part-A

#### Supply, Installation, Testing and commissioning of DP structure with 11KV

##### A.B. Switch on 9MTR RSJ POLE

The work involves Supply, Installation, Testing and commissioning of DP structure with 11KV A.B. Switch on 9MTR RSJ POLE. The Double polestructures have to be firmly installed on the site and two layers of anticorrosivecoating and three layers of high quality paint with best workmanship is to be done.This also includes painting numbering the poles in 100mm round dia.

Double pole structure should be solidly earthed from two points with individual earthing and a 'Danger' sign board should be provided on the Double Pole structure as instructed by Engineer in Charge.

The below table shows tentative items (but not limited) to be used for this work. The same may be used for reference. However, the bidder is suggested to visit the site for ascertaining actual requirement of items.

SR	PARTICULARS (For One DOUBLE POLE STRUCTUREWITH 11 KV A.B.SWITCH ON 9MTR RSJ POLE)	UNIT	QTY
1	9 MTR RSJ POLE (minimum 116mmX100mmX10mm)	NO.	2
2	M.S.Angle Top FEBRI.65x65x6mm - 2750mm <b>MS with Hot Dip Galvanization</b>	NO.	2
3	M.S.Angle 11 KV A.B.Switch - Fabri 65x65x6mm- 2750mm	NO.	4
4	M.S. Angle Fabri. 65x65x6mm - 2750mm for cross bracing	NO.	4

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

5	11 KV A.B. SWITCH 400 AMP.	SET	1
6	Side Clamps for mounting A.B Switch (M.S Flat of size 50X6)	NO.	16
7	(a) Ancher rod - 1 No.	NO.	4
8	(b) Turn buckle - 1 No	NO.	4
9	( c ) Eye Bolt - 1No(16mmX590 mm Round Bar)	NO.	4
10	(d) Stay wire- 7/12	KG	11.2
11	(e) HT Guy Insulator - 1 No.	NO.	4
12	(f) Guy Clamp - 1 Set.	SET	4
13	(a ) GI Wire No. 8 From Pole Top to Earthing Coil	KG	2.32
14	(b) Rigid PVC Pipe -20mm dia ( 1.5 Mtr) - 1No	NO.	2
15	( c ) Earthing Bolt	NO.	2
16	(d) Earthing Coil (GI Wire No 8)	NO.	2
17	(a) 11 KV Porcelyn Disc Insulator	NO.	12
18	(b) 11KV Disc. Hardware	SET	6
19	(a) M.S.Bolts & Nuts 65x16mm	KG	7.2
20	(b) M.S.Bolts & Nuts 180x16mm	KG	2.49
21	(c) Suitable P.G.Clamp for 'Dog' Conductor	NO.	9
22	(d) Binding tape HT for jumpering	MTR	20
23	(e) Alu. Binding wire	KG	0.5

**Note:** Above table is just for reference and summarizes minimum requirement of materials for one DP structure with 11KV A.B. Switch on 9MTR RSJ POLE. Actual quantity may be envisaged for as per Annexure-I Bill of Quantities using reference the above table. Any item with MS has to be Hot Dip Galvanized.

### 14. Technical Specification No.14 of Part-A

#### Preparation and installation of Earth Station

This includes preparation of earth station with chemical treated backfilled compound 85 mm diameter Pipe in Pipe GI Type 3 Mtr Depth, Maintenance free including all accessories & Masonry work Enclosure with cover plate. The value of earth pit shall be less than 5ohm. A cement concrete (ratio of Cement:Sand:Metal should be 1:2:4) chamber of at least 30cm x 30cm shall be provided just below the surface of ground over the funnel for

## **Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla**

watering and having RCC/CI cover of suitable size as directed. This also includes removal of extra-excavated earth from the site. The work shall be carried out to entire satisfaction of Engineer-in-charge. This work includes all labour and material as directed by Engineer-in-Charge.

### **15. Technical Specification No.15 of Part-A**

**Supply, laying, fixing including termination / connection of following type and size of earth strips 50X6 mm Hot Dip GI strips**

This includes supply, Laying & connecting, Hot Dip G.I. strip of size 50 X 6 mm. Hot DIP coating on GI as per the earthing system, connected to two separate and distinct main earth as directed and shall be clamped suitably on wall /floor or buried in the ground/pucca trench as directed. The pieces of GI strips shall be connected using GI nut bolts rigidly and the GI strip shall be laid either on RCC with proper clamping or in the ground minimum 300 mm. below the ground level as the case may be and as directed and shall be buried properly or as directed by Engineer-in-charge.

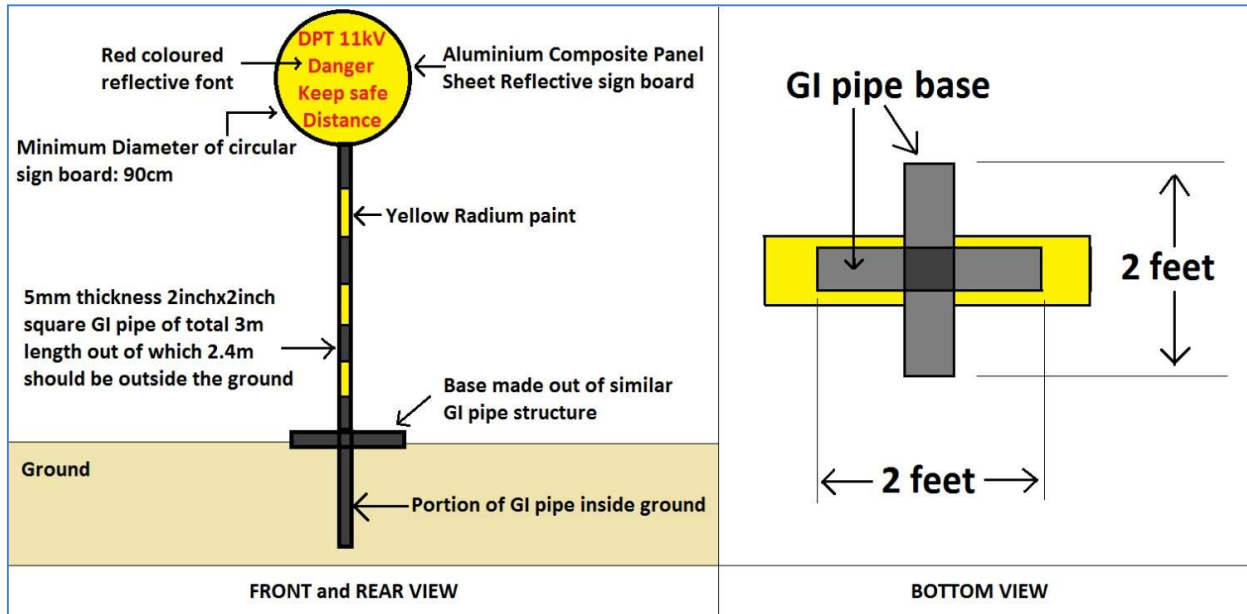
### **16. Technical Specification No.16 of Part-A.**

**Supply and installation of reflective sign boards**

This includes supply and installation of reflective sign boards at various locations as directed by Engineer-in-charge. The reflective sign boards have to be made out of Aluminium composite panel sheet with at least 3mm thickness and circular shape with minimum 90cm diameter of the circular sign board with reflective yellow coloured background and reflective red coloured bold fonts that are legible at least from a distance of 10meter. The reflective sign boards should be mounted on square GI pipes of minimum thickness 3mm and minimum length 3meter. Out of 3meter length of the GI pipe, 2.4meter should be above the ground level post installation and rest has to be grounded firmly. The base of the GI pipe should also be made with the similar GI pipe and the 'X' base formed should be welded properly with the main pole GI pipe using appropriate welding rods for GI pipe welding. Improper workmanship or fit and finish is liable to be rejected and is at the sole discretion of Engineer-in-charge.

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

The GI pipe should be painted with double coats of anti-corrosive paint and later with black colour and reflective yellow colour alternatively as referred to in the below figure.



The installation of GI pipe should be perfectly vertical so as to make the sign board perfectly erect without any tilt and all the sign boards should be meticulously installed at almost the same height. The GI pipe base should be affirmed by muffling the base with 2.5feetx2.5feetx2feet concreting of the ratio 1:2:4 of Cement:sand:metal. The concreted structure has to be painted with waterproofing coating twice and later with two layers of yellow coloured radium paint and black paint in form of strips. Please note that the concrete structure is not shown in the above figure but has to be compulsorily installed for all the sign board GI pipes without fail. The above figure is indicative and can be used for reference for better understanding of the requirements. The land is soft, muddy type marshy land hence a PCC carpet of 50mm thick shall be provided at the bottom and cured before erection of GI pipes of sign boards wherever necessary as directed by Engineer-in-charge.

### 17. Technical Specification No.17 of Part-A

**Guarding assembly for 1km under 11kV Overhead line with approximate pole span 30m**

This work includes the supply, installation, testing and commissioning of Guarding Assembly under 11kV Overhead line using M.S. Bolts & Nuts 65x16mm Hot Dip Galvanized, M.S. Bolts & Nuts 180x16mm Hot Dip Galvanized, P.G. Clamp

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

for Rabbit/Wedge Connectors 70 sq.mm, Aluminum Binding wire and HT Tape as per the standards set by PGVCL and as per the directions of Engineer-in-Charge.

### 18. Technical Specification No.18 of Part-A.

**Supply, Installation, testing and commissioning of 11kv line using ABC (aerial Bunched Conductor) of size 11kV 3x120sqmm + 100sqmm on 9mtr RSJ poles with wind pressure 100 kg/m<sup>2</sup> (approximate span 30 mtr)**

The composite cable shall comprise three single-core cables twisted around abare aluminium alloy messenger wire, which will carry the weight of the cable. Therated voltage of the cables shall be 6.35KV/11KV and the maximum operatingvoltage shall be 12 KV. Unless otherwise stipulated in this Specification, the following Standards shall be applicable: i) IS: 7098 (Part-II) - 1985 – Cross linked Polyethylene Insulated PVC Sheathed Cables ii) IS: 8130-1984 - Conductors for Insulated Cables iii) IS: 398 (Part-IV) - 1979 - Aluminium Alloy Conductors iv) IEC-60502 (Part-II) 2005 - Polyethylene Outer Sheath

The cable conductors shall be of round, stranded and compacted aluminium of nominal cross sectional area 120mm<sup>2</sup>. The conductor screen shall be of extruded semi-conducting cross inked polyethylene compound of thickness not less than 0.5mm. The insulation shall be of extruded cross linked polyethylene (XLPE), Dry Gas cured/wet cure process, of nominal insulation thickness 3.6mm and its properties shall conform to IS: 7098 (Part-II). The insulation screen shall comprise extruded semi-conducting compound and/or semiconducting tape. Thickness of the screen shall be not less than 0.6 mm. The metallic screen shall consist of Copper tape of thickness not less than 0.045mm. The outer sheath shall be black polyethylene. The nominal thickness of sheath shall be 2 mm and it shall conform to the technical requirements of ST-7 of IEC-60502 (Part-II) 2005.

The dimensional and electrical data for single-core cable is given below:

Sr. No.	Description	Nominal Area of Conductors
		120mm <sup>2</sup>
i)	Nominal conductor diameter (mm) / No. of wires in conductor	13.1/15
ii)	Approx. over dia. of cable (mm)	28
iii)	Max. D.C resistance at 20°C Ohm/Km	0.253
iv)	Max. SC current for 1 sec. kA	11.32
v)	Max. Continuous load (Amps.)	260

The bare messenger wire shall be of 100 mm<sup>2</sup> (nominal area) aluminium

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

alloy, generally conforming to IS:398 (Part-IV) - 1994, comprising of 7 strands and shall be suitably compacted/non compacted to have smooth round surface to avoid damage to the outer insulating sheath of single-core phase cables twisted around the messenger. There shall be no joints in any wire of the stranded messenger conductor except those made in the base rod or wires before finally drawing.

The technical characteristics of the messenger wire shall be as follows:

Sr. No.	Item	Nominal Area of Messenger
i)	Nominal sectional area (mm <sup>2</sup> )	100
ii)	No. of wires	7
iii)	Nominal dia. of wires/compact conductor (Approx.) mm	4.26/12.78
iv)	Approx. mass Kg/Km	272.86
v)	DC resistance at 20° C Ohm/Km	0.339
vi)	Breaking load (KN)	29.26

**Note:** The value in item (v) above is to be guaranteed. A tolerance of (-) 5% is permissible on the value in item (vi) above.

The designation and parameters of finished cables are given in the following table:

Sr. No.	Designation	Complete Bunched Cable	
		Overall dia (approx.) mm	Total mass (approx.) Kg/Km
i)	3 x 120 mm <sup>2</sup> + 100 mm <sup>2</sup>	67	2650

**Note:** The first part of the designation refers to the number and size of phase conductor and the second to the size of messenger wire. The sizes shown represent the nominal cross sectional areas in mm.

All the cable sizes i.e. items offered should have been fully type tested as per the relevant standards at any NABL accredited/Govt. of India's recognized Laboratory. The bidder shall furnish the type test reports along with the offer. These type tests must have been conducted within last five years prior to date of Bid opening. For any change in design/type, already type tested and the design / type offered against this specification, the purchaser reserves the right to demand repetition of type tests without any extra cost. DPT also reserves the right to have tests carried out at his own cost by an independent agency, whenever there is a dispute regarding the quality of supply.

All the relevant Type tests and Routine Tests shall be carried out on the cables as per IS: 7098 (Part-II) & Type tests and Routine Tests certificates shall be furnished invariably before delivery on site.

This includes supply at site & stringing of 11kV 3x120sqmm + 100sqmmABC as per IE rules and latest applicable standards and same is to be string on

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

HT pin and strain insulators, binding on insulators, jumpering, the jointing in HT line will be done by twisting sleeve joints as per standard practice. Care must be taken in handling the ABC to protect against cuts, scratches or kinks. The ABC must not be drawn over hard surface ground, where it is liable to be damaged. ABC must be drawn on wooden or aluminum pulley only. Wastage and cutting should be avoided as far as possible. Not more than 2% sag will be accepted in the materials account. The sag and spans and line erection/installation guidelines must be maintained as per PGVCL norms.

This also includes painting with two coat of metal primer and three coat of silver paint, thereafter numbering the poles in 100mm round dia. This also includes planting the pole to 1/6<sup>th</sup> height in the ground strengthening with cement concrete and above ground level muffing is to be done.

The cross arms insulators must be so fixed that neither tilt nor bend from position. The rate quoted should be for 3x120sqmm + 100sqmm ABC route per kilometer. The sagging should be uniform for all conductors and uneven sagging will not be allowed. The ground clearance and line to line clearances, etc. have to be maintained as per latest IE Rules.

The land is soft, muddy type marshy land where poles are to be erected after excavation for erection of poles, a PCC carpet of 50mm thick shall be provided at the bottom and cured before erection of poles.

The vegetation below the line shall be removed by the contractor. The contractor shall prepare the drawing of the line work (5 copies) and shall submit all the required documents which are required for getting clearance from CEA. However, the submission, uploading of documents and payment of statutory charges are in the scope of DPT.

The below table indicates tentative (but not limited) items to be used for 1km of 11kV ABC line which may be used for reference:

Particulars	Unit	Quantity
9mtr RSJ POLE (minimum 116mmX100mmX10mm)	No.	35
Anchor Rod - 1 No	No.	8
Turn Buckel - 1 No	No.	8
Eye Bolt - 1 No	No.	8
Stay wire - 7/12	kg	27.20
HT Guy Insulator - 1 No	No	8

## Providing Power supply & Illumination to Oil Jetty No 8 at DPA Kandla

Guy Clamp - 1 Pair	pair	8
(a) GI Wire No. 8 From Pole Top to Earthing Coil	Kg	49
(b) Rigid PVC Pipe -20mm dia ( 1.5 Mtr) - 1No	No.	35
(c) Earthing Bolt	No.	35
(d) Earthing Coil (GI Wire No 8)	No.	35
11 KV 3x120sq.mm. + 100sq.mm. bare messengerAerial Bunched cable	km	1.05
Self tightening anchoring (Dead end) clamp with pole bracket using Stainless Steel Strap & Buckle	No.	4
Self locking Suspension Clamp with pole bracket using Stainless Steel Strap & Buckle	No.	31
Providing & fixing Heat Shrinkable type Cable Jointingkit suitable for 11 KV 1Cx120 sqmm AB Cable for Outdoor Termination application	No.	18
Stainless Steel of Size Strap 20mm*0.7mm & Buckle width20 mm	No.	70

**Note:** Above table is just for reference and summarizes minimum requirement of materials for one km route length of 11kv line using ABC (aerial Bunched Conductor) of size 11kV 3x120sqmm + 100sqmm on 9mtr RSJ poles. Actual quantity may be envisaged for as per Annexure-I Bill of Quantities using reference the above table. Any item with MS has to be Hot Dip Galvanized.



**Important:**

- 1) If any ancillary work arises during the execution of work the Contractor shall complete the item/items by carrying out such ancillary work without any extra payment.
- 2) The work shall be carried out with entire satisfaction of Engineer-in-Charge.

----

**PART B****1 Technical Specification No-1 OF Part-B.**

The work includes supply, Installation, testing & commissioning of 6 mtr. mini mast GI hot dipped galvanized with 80microns coating inside & outside the tower, carriage & its hardware's. The carriage shall be operated with hand-operated winch with handle, 4Nos of LED flood light will be mounted on same for illumination of oil jetty & its pathway. As ships will discharge petroleum product, PESO norms are to be followed while executing electrical work (Explosion proof ZONE II). The minimast shall be fabricated from 4mm sheet, base plate shall be 10mm with four holes, same is to be fixed with 4Nos anchor bolts of suitable size at site, The installation shall be in plumb and with proper alignments ,this also includes insertion of LT cable and joints shall be covered by heat shrink sleeve,& flameproof JB's, work shall complete to entire satisfaction of engineer in charge.

**2. Technical Specification No-2 Part-B:**

The work includes supply, Installation, testing & commissioning of 60 watt Explosion proof ZONE II floodlight IP66 of 230v,50HZ AC, 4Nos of LED flood light will be mounted on minimast carriage for illumination of oil jetty & its pathway. As petroleum product will be discharged by ships, PESO norms are to be followed while executing electrical work. The aiming shall be proper for covering maximum floor area, this also includes insertion of LT cable and joints shall be covered by heat shrink sleeve, & flameproof JB's, work shall complete to entire satisfaction of engineer in charge.

**3. Technical Specification No-3 of Part-B:**

The work includes supply & laying of site 1.1 KV grade, 4 core aluminium conductor, XLPE insulated armoured cable confirming to IS: 7098 (Part-I) 1985 and IS. 17505 (Part-I) fire survival cable with up to date amendments and of approved make with ISI mark. The manufacturer shall produce TYPE TEST certificate with similar size of cable, which shall not be more than 1 years old. The cable shall have marking/embossing at the interval of every meter showing its progressive length. During the cable inspection, the manufacturer shall show the relevant ROUTINE TESTS to inspecting authority or otherwise the manufacturer shall produce the routine test certificate during supply of cable at site. The rate shall inclusive of all taxes, packing, forwarding, insurance, transportation and unloading at site of work etc. Apart from same single length of cable is to be laid in existing cable trench by removal of cover and after laying of cable, trench cover is to be relayed on it properly. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

**4. Technical Specification No-4 pf Part-B.**

This work includes supply & laying of site 1.1 KV grade, 4 core aluminium conductor, XLPE insulated armoured cable confirming to IS: 7098 (Part-I) 1985 IS. 17505 (Part-I) fire survival cable with up to date amendments and of approved make with ISI mark. The manufacturer shall produce TYPE TEST certificate with similar size of cable, which shall

not be more than 1-year-old. The cable shall have marking/embossing at the interval of every meter showing its progressive length. During the cable inspection, the manufacturer shall show the relevant ROUTINE TESTS to inspecting authority or otherwise the manufacturer shall produce the routine test certificate during supply of cable at site. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Apart from same single length of cable is to be laid by excavation in soft soil, marshy land at a depth of 1mtr and wide 300mm, brick & sand is to be laid along with cable for cushion and protection of cable. Cable marker shall be fixed on top for caution, Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **5. Technical Specification No-5 of Part-B.**

This work includes supply & laying of site 4way flame proof Junction box Die cast aluminum LM6 Explosion proof ZONE II. The cable will be terminated in the JB contractor has to produce test certificate of same. However before ordering contractor shall obtain the clearance of JB from DPT regarding its dimension thickness etc. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Apart from same is to be fixed in hazardous area at suitable height for fixtures etc. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **6. Technical Specification No-6 of Part-B.**

This work includes supply, Installation testing & commissioning flame proof feeder pillars Die cast aluminium LM6. The cable will be terminated from bottom; contractor has to produce certificate of same that it can withstand in hazardous area. However before ordering contractor shall obtain the clearance of feeder pillar from DPT regarding its dimension thickness, accessories etc. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Apart from same is to be fixed in free standing (hazardous area Explosion proof ZONE II). Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **7. Technical Specification No-7 of Part-B**

This work includes supply, Installation testing & commissioning of chemical earthing as per IS norms. The length of pipe shall be 3mts with flat of size 26X6mm is to be laid by excavation and back fill by its chemical bags thereafter earthing flat is to be connected to same by proper hardware's, contractor has to produce test certificate of earthing. However before ordering contractor shall obtain the clearance of chemical earthing from DPT regarding its details. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Apart from same is to be fixed in oil jetty. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **8. Technical Specification No-8 of Part-B**

This work includes supply, Installation testing & commissioning flame proof industrial wiring with conduit pipe of 32mm along with its accessories such as bend, extension, etc with 2.5sqmm FRLS copper stranded wire 3 run for phase, neutral & earth. The point wiring is to be done on wall, beam, column complete

with labour and flameproof accessories as per site conditions. However before ordering for point wiring material contractor shall obtain the clearance EIC. The point wiring rate shall inclusive of all charges. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **9. Technical Specification No-9 Part-B.**

This work includes supply, Installation testing & commissioning flame proof 4 feet LED tube light of 22/24 watt and above with its accessories, along with GI heavy duty clamps & hardware's. The tube light is to be fixed on wall, ceiling, beam as per site conditions including labours. contractor has to produce test certificate of same that it can withstand in hazardous area. However before ordering contractor shall obtain the clearance of tube light. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **10. Technical Specification No-10 Part-B.**

This work includes supply, Installation testing & commissioning flame proof 400mm wall mounting fresh air fan of 215V,50Hz single phase and above with its accessories, along with GI heavy duty clamps & hardware's. The fan is to be fixed on wall, ceiling, beam as per site conditions including labours. contractor has to produce test certificate of same that it can withstand in hazardous area. However before ordering contractor shall obtain the clearance of fan. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **11. Technical Specification No-11 Part-B.**

This work includes supply, Installation testing & commissioning flame proof 300mm wall mounting exhaust fan of 215V,50Hz single phase and above with its accessories, along with GI heavy duty clamps & hardware's. The fan is to be fixed on wall, as per site conditions including labours. Contractor has to produce test certificate of same that it can withstand in hazardous area. However before ordering contractor shall obtain the clearance of fan. The rate shall inclusive of all taxes, packing, forwarding, insurance, and transportation and unloading at site of work etc. Work include complete labour & materials and to entire satisfaction of engineer-in charge.

#### **12. Technical Specification No-12 of Part-B.**

##### **High Mast Specification**

The work include design, supply and erection testing & commissioning of 20M high mast flood lighting towers, including the installation, testing and commissioning of LED cool white flood light and other electrical accessories ,arrangement for raising and lowering the lights during maintenance.

#### **APPLICABLE STANDARDS**

The following shall be the Reference Standards for the loading of the high mast:

BS Code of Practice, CP-3, Gradient of wind related to height Chapter-V,

BS 4360 Grades of MS Plates

BS 5135 Welding

BD 729 Galvanising

Technical Report (TR) No.7 – 1996 Specification for Mast and Foundation.

IS 875 (Pt-III) 1987 Code of Practice for Design Loads for structure

## **TECHNICAL SPECIFICATIONS HIGH MAST**

### **Structure**

The High mast shall be of continuously tapered, polygonal cross section, 20 sided or as per proven design, presenting a pleasing appearance and shall be based on proven In-Tension design conforming to standards, to give an assured performance and reliable service.

The mast height shall be 20 meters, with minimum diameters as per proven design. Minimum plate thickness of bottom section shall be 6mm and other sections 5mm. The PCD of the mast flange shall be minimum 740 mm or as per proved design. The structure shall be suitable for wind loading as per IS-875, part-3, 1987 or relevant to site condition.

### **Construction**

The mast shall be capable of safely withstanding the strong winds prevailing at site. The deflection at the top during heavy storm periods shall therefore be considered in the design and the mast designed in such way that the above deflection during worst periods is kept to a minimum value. The mast shall be fabricated from special steel plates, conforming to BS-EN10-025, cut and folded to form a polygonal section as stated above and shall be telescopically jointed and fillets welded. The welding shall be in accordance with BS:5135. The procedural weld geometry and the workmanship shall be exhaustively tested on the completed welds. The 20-meter size mast shall be delivered in sections, and shall be jointed of the entire section. The base flange shall be provided with supplementary gussets between the bolt holes to ensure elimination of helical stress concentration. For the environmental protection of the mast, the entire fabricated mast shall be hot dip galvanized, internally and externally, having a uniform thickness of 65 microns.

### **Door Opening**

An adequate door opening shall be provided at the base of the mast and the opening shall be such that it permits clear access to equipment like winches, cables, plug and socket, etc. and also facilitate easy removal of the winch. The door opening shall be complete with a close fitting, vandal resistant, weather proof door, provided with a heavy duty double internal lock with special paddle key. The door opening shall be carefully designed and reinforced with welded steel section, so that the mast section at the base shall be unaffected and undue buckling of the cut portion is prevented.

### **Dynamic Loading for the Mast**

The mast structure shall be suitable to sustain an assumed maximum reaction arising from a wind speed as per IS 875, and shall be measured at a height of 10 meters above ground level.

### **LANTERN CARRIAGE Fabrication**

A fabricated Lantern Carriage shall be provided for fixing and holding the flood light LED fitting. The Lantern Carriage shall be of special design and shall be of steel tube construction, the tubes acting as conduits for wires, with holes fully protected by grommets. The Lantern Carriage shall be so designed and fabricated to hold the required number of LED floodlight fittings and junction boxes, and also to have a perfect self-balance. The Lantern Carriage shall be fabricated in two halves and joined by bolted flanges with stainless steel bolts and plastic lock type stainless steel nuts to enable easy installation or removal from the erected mast. The inner lining of the carriage shall

be provided with protective PVC arrangement, so that no damage is caused to the surface of the mast during the raising and lowering operation of the carriage. The entire Lantern Carriage shall be hot dip galvanized after fabrication. and raise the Lantern Carriage Assembly. To enable this, a suitable Winch Arrangement shall be provided, with winch fixed at the base of the mast and the specially designed head frame assembly the top.

### **Winch**

The winch shall be of double drum type as per IS 807, suitable to lift optimum mechanical load, shall be operated manually & electrically, Permanent oil bath of SAE 90 or equivalent of proven design. The gear ratio may be according to manufacturer's standard. However, the minimum working load shall be not less than 400Kg. The winch drums shall be grooved to ensure perfect seat for stable and tidy rope lay, with no chances of rope slippage. The rope termination in the winch shall be such that distortion or twisting is eliminated and at least 5 to 6 runs of rope remains on the drum even when lantern carriage is fully lowered and rested on the rest pads.

It shall be possible to remove the double drum after dismantling, through the door opening provided at the base of mast. Also a winch gear box for simultaneous and reversible operation of the double drum winch shall be provided as part of the contract.

### **Head Frame**

The head frame which is to be designed as a capping unit of the mast, shall be of welded steel construction, galvanized both internally and externally after assembly. The top pulley shall be appropriate diameter, large enough to accommodate the stainless steel wire ropes and the multi-core electric cable. The pulley block shall be made of non-corrosive material, and shall be of die cast aluminium alloy (LM-6). Pulley made of synthetic material such as plastic or PVC are not acceptable. Self-lubricating bearings and stainless steel shaft shall be provided to facilitate smooth and maintenance free operation for a long period. The pulley assembly shall be fully protected by a canopy galvanized externally and internally, Close fittings guides and sleeves shall be provided to ensure that the ropes and cables do not dislodge from their respective positions in the grooves. The head frame shall be provided with guides and stops with PVC buffer for docking the lantern carriage.

### **Stainless Steel Wire Ropes**

The suspension system shall be essentially be without intermediate joint and shall consist of any non-corrosive stainless steel of AISI 316 or better grade. The stainless steel wire ropes shall be of 7/19 construction, the central core being of the same material. The overall diameter of the rope shall not be less than 6 mm. The breaking load of each rope shall not be less than 2350kg individually, giving factor of safety or over 5 for system at full load, the minimum recommended value as per the TR-7 referred to in the beginning of the specification. The end construction of rope to winch drum shall be fitted with talurit. The thimbles shall be secured on ropes by compression splices. Two continuous lengths of stainless steel wire ropes shall be used in the system and no intermediate joints are acceptable in view of the required safety. No intermediate joints, either bolted or else is provided on the wire ropes between winch and lantern carriage.

### **CABLE:**

Trailing cable EPR Insulated and PCP sheathed 2.5sqmm 5core annealed copper cable.

**LED SPECIFICATION**

Cool white LED, Warranty, Power 250W, Lighting effect grade 100LM/W, Input Voltage AC85V~265V, Frequency Range 50Hz~60Hz, Power Factor >0.95, Power Efficiency >92 %

Lifetime >50000 Hrs, die cast metal body. IP 65. Qty 40Nos

**Power TOOL (Integral to system)**

3Phase, 415v, 50 HZ, AC +/- 5% Rating of the motor shall be suitable to the design with control & torque limiting protection single speed.

**CIVIL FOUNDATION**

High mast civil foundation is also in the scope of contractor, the design of foundation shall be approved from our Design section civil department, similarly its execution will also be under civil department. The soil bearing capacity is 5T/Mtsquare; however, during start of work contractor has to obtain complete detail of soil and based on same design is to be done. Work include complete materials & labour, and to entire satisfaction of Engineer In charge.

**13. Technical Specification No-13 of Part-B.**

The work include supply, Installation, testing & commissioning of M.S guarding for 20mtr High Mast tower. The guarding shall be fabricated from MS angle of 75 X 75x6mm duly welded and bolted to form square guarding of 5Mtr x 5Mtr with total height of guarding shall be 1.5Mtr height with 300mm in excavated soil having CC of 1:2:4 of 300x300mm foundation 8 members and cross angle to same. Work include proper cleaning & applying metal primer & three finish coat of silver paint. Work includes complete labour & materials and to entire satisfaction of EIC.

**14. Technical Specification No-14 of Part-B.**

The work include supply, Installation, testing & commissioning of 200 KVA, 415v, 50HZ, autochangeover switch silent DG set diesel operated. This also includes its cement platforms of 150mm height extended at least 600mm from DG main dimensions. This also include two nos copper earthing for its neutral & two GI earthing for body along with suitable size of LT cable to reach the mains. Contractor has to first fill the HSD up to 90% of its tank capacity, The rate shall be inclusive of complete transportation, loading unloading and trial test to entire satisfaction of EIC.

Contractor Signature & Seal.

EXECUTIVE ENGINEER (E)  
DEENDAYAL PORT AUTHORITY

## SECTION VI

### Bill of Quantities (BOQ)

Sr. No.	Description	Qty.	Unit	Rate		Amount
				In Figure	In Words	
PART - A						
1	Supply, Installation, Testing and commissioning of 11KV overhead line with 100mm2 AAAC Conductor with wind pressure 100kg/m2 on RSJ 9mtr pole (Approximate span of 30m) as per					
(a)	technical specification no.1	15	KM			
(b)	Supply	15	KM			
	Erection testing & Commissioning					
2	Supply, Installation, Testing and commissioning of Cement Concreting of 1:2:4 ratio mixtures for Poles / Guys including CC for Poles and Guys as per site requirement as per technical specification no.2					
(a)	Supply	450	M³			
(b)	Erection testing & Commissioning	450	M³			
3	Supply, Installation, testing and commissioning of Stay Set (Extra) with Erection as per technical specification no.3					
(a)	Supply	90	Set			
(b)	Erection testing & Commissioning	90	Set			
4	Supply, Installation, Testing and commissioning of DP structure with 11KV A.B. Switch & D.O. Fuse on 9 MTR RSJ POLE as per technical specification no.4					
(a)	Supply	2	No.			
(b)	Erection testing & Commissioning	2	No.			
5	Supply at site XLPE 3Cx185sqmm insulated armoured aluminium conductor cable as per Technical Specification No.5	5000	Mtr.			
6	Laying of Double circuit (two parallel cables) 3CX185 Sq.mm (E) XLPE Cable through Hard/Soft Soil Excavation and laying through Half Round Pipe (2 Nos.) 6" inner Diameter and 1 Meter length as per technical specification no.6 (Route Length: 2150 Mtr).	4300	Mtr.			

7	Laying of Double circuit (two parallel cables) 3CX185 Sq.mm (E) XLPE Cable through RCC/Road/Rail Crossing by Putting Suitable HDPE pipe in between Crossing as per technical specification no.7 (Route Length: 200 Mtr).	400	Mtr.			
8	Supply, fixing and testing of Outdoor Cable Termination kit for 11kV 185sqmm XLPE Cable as per technical specification no.8					
(a)	Supply	10	No.			
(b)	Erection testing & Commissioning	10	No.			
9	Supply, fixing and testing of Indoor Cable Termination kit for 11kV 185sqmm XLPE Cable as per technical specification no.9					
(a)	Supply	4	No.			
(b)	Erection testing & Commissioning	4	No.			
10	Supply and installation of Earthing coils at each end of the cable individually for each cable as per technical specification no.10					
(a)	Supply	9	No.			
(b)	Erection testing & Commissioning	9	No.			
11	Supply, Installation, Testing and Commissioning of 7 Way Gas Insulated Maintenance free RMU IP54, 12kV 630A 21kA 3 sec with Robotically welded SS304 tank manufactured according to ISO 9001, 14001 and OHSAS 18001 as per technical specification no.11					
(a)	Supply	1	Set			
(b)	Erection testing & Commissioning	1	Set			
12	Supply, Installation, Testing and Commissioning of 250kVA 11/0.43kV Outdoor Type Compact Substation with HT Panel, Transformer, LT Panel, Protection and Metering Device, etc. and other relevant accessories in a suitable enclosure with IP54 as per technical specification no 12.					
(a)	Supply	2	No.			
(b)	Erection testing & Commissioning	2	No.			
13	Supply, Installation, Testing and commissioning of DP structure with 11KV A.B. Switch on 9MTR RSJ					



(a)	POLE as per technical specifications no.13.	10	No.			
(b)	Supply Erection, testing & Commissioning	10	No.			
14	Preparation and installation of Earth Station as per technical specification no.14					
(a)	Supply	10	No.			
(b)	Erection, testing & Commissioning	10	No.			
15	Supply, laying, fixing including termination / connection of following type and size of earth strips 50X6 mm Hot Dip GI strips as per technical specification no.15					
(a)	Supply	800	Mtr.			
(b)	Erection, testing & Commissioning	800	Mtr.			
16	Supply and installation of reflective sign boards as per technical specification no.16					
(a)	Supply	50	No.			
(b)	Erection, testing & Commissioning	50	No.			
17	Guarding assembly for 1km under 11kV Overhead line as per site requirement approximate pole span 30m as per technical specification no.17					
(i)	M.S. Angle 65x65x6mm - 2 Mtr for guarding Angle cross arm/Guarding Channel					
(a)	Supply	74	No.			
(b)	Installation	74	No.			
(ii)	Side clamp (Flat Bar of size 50X6) for Guarding					
(a)	Supply	74	No.			
(b)	Installation	74	No.			
(iii)	G.I. WIRE NO.10 (3.15 MM) for Guarding					
(a)	Supply	40	No.			
(b)	Installation	40	No.			
(iv)	G.I. WIRE NO. 8 for Guarding					
(a)	Supply	250	No.			
(b)	Installation	250	No.			
(v)	Eye Bolt - 1No (16mmX590 mm Round Bar) for Guarding.					

(a)	Supply	148	No.			
(b)	Installation	148	No.			
(vi)	Bolts & Nuts - 65x16mm for Guarding					
(a)	Supply	30	No.			
(b)	Installation	30	No.			
(vii)	Aluminium Binding wire for Guarding					
(a)	Supply	8	No.			
(b)	Installation	8	No.			
18	Supply, Installation, testing and commissioning of 11kv line using ABC (aerial Bunched Conductor) of size 11kV 3x120sqmm + 100sqmm on 9mtr RSJ poles with wind pressure 100 kg/m <sup>2</sup> (approximate span 30 mtr) as per technical specification no.18					
(a)	Supply	300	Mtr.			
(b)	Erection, testing & Commissioning	300	Mtr.			
<b>Total Amount (Part-A) Rs.</b>						
<b>PART - B</b>						
1	Supply, Installation, testing & commissioning of 6mtr high octagonal mini mast GI tower with all accessories such as hand operated winch with GI steel wire and lantern carriage base flange for quay & walkway illumination. and as per technical specification No 1	30	No.			
2	Supply installation testing commissioning of 60 W LED flameproof flood light IP 66 as PESO approved cool white, to be fixed on 6 Mtr mini mast GI tower complete with labour & materials. and as per technical specification no 2	100	No.			
3	Supply, laying of aluminium Conductor steel armoured LT XLPE cable as per latest IS, same is to be layed in existing trench from jetty to pump room complete with labour and materials. and as per technical specification no 3					
(i)	4C X 16 sq.mm	1000	Mtr.			
(ii)	4C X 70 sq.mm	500	Mtr.			
(iii)	4C X 35 sq.mm	500	Mtr.			

4	Supply, laying of aluminium Conductor steel armoured LT XLPE cable as per latest IS, same is to be layed by excavation of 1mts deep and 0.5mtr width and brick & sand laying in marshy soil from Substation to pump room partial in existing cement concrete as per technical specification no 4					
(i)	4C X 16 sq.mm	500	Mtr.			
(ii)	4C X 70 sq.mm	200	Mtr.			
(iii)	4C X 35 sq.mm	500	Mtr.			
5	Supply and fixing of 4way flameproof JB with connector inside to fix 10sqmm aluminium conductor, on wall, on tower as per site condition complete with labour & materials and as per technical specification no 5	42	No.			
6	Supply Installation testing commissioning of flameproof feeder pillar of stainless steel sheet of 316 grade along with its pedestal of MS hot dipped angle 50x50x6mm thickness for free standing having one MCCB of 415V, 100 Amp, 50HZ, 25Ka four pole as I/C and having 3 pole contactor of 40 amp or of above rating with astronomical timer for switching ON & OFF of lighting as per timing, complete with labour & materials. and as per technical specification no 6	3	No.			
7	SITC of chemical earthing with 3Mtr GI flat in pipe with 25x6mm along with its filling bags complete with labour & materials. and as per technical specification no 7	20	No.			
8	Supply, Installation testing commissioning of Industrial wiring with heavy duty CPVC pipe of 32mm with pipe accessories, this include flameproof electrical board & junction box for completion of point wiring with 2.5sqmm FRLS copper stranded wire 3run viz. phase, neutral & earth. The point wiring is to be done on wall, beam, column at suitable height with GI clamp of					

	2mm thickness, complete with labour & materials as per technical specification no 8 & to entire satisfaction of Engineer In charge	55	No.			
9	SITC of 4feet 22/24 W LED cool white light of 230v, 50HZ AC, in flameproof cabinet of approved make to be fixed on wall, ceiling etc. as per site requirement and as per technical specification no 9, Complete with labour & materials.	75	No.			
10	SITC of flameproof fresh air wall mounting fan of size 400 mm, 230v, 50HZ AC, of approved make to be fixed on wall, etc. as per site requirement and as per technical specification no 10. Complete with labour & materials	7	No.			
11	SITC of flameproof heavy duty exhaust fan of size 300 mm, 230v, 50HZ AC, of approved make to be fixed on wall, etc. as per site requirement and as per technical specification no 11. Complete with labour & materials	5	No.			
12	Supply Installation testing & commissioning of 20Mtr High mast GI tower along with its civil foundation as per Soil Bearing Capacity of approx. 1.5T/Mtr square, This also includes supply & fixing of 250W LED cool white flood light fitting, complete as per technical specification no 12.	3	No.			
13	Supply Installation testing & commissioning of guarding to 20Mtr High mast GI tower along with guarding foundation. The guarding is to be fabricated from MS angle of 75x75x6mm duly welded and bolted to form square guarding of 5mtrx5mtr complete with painting two coat metal primer & two coat final finish enamel paint, work include complete labour & materials. and as per technical specification no 13	3	No.			

14	Supply Installation Testing commissioning of 200KVA, 415V, 50HZ AC, silent DG set as per GEM norms ,and as per technical specification no 14.	1	No.			
<b>Total Amount (Part-B) Rs.</b>						
<b>Total Amount (Part-A + Part-B) Rs.</b>						

**(In Words: Rs.\_\_\_\_\_)**

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

**Seal & Signature  
of Contractor**

**Executive Engineer (E)  
Deendayal Port Authority**

**SECTION-VII**

**EVIDENCE TOWARDS SITE VISIT**

I, Shri \_\_\_\_\_ authorized representative of M/s. \_\_\_\_\_ (authorization letter issued by the firm with my specimen signature and passport size photo and adhaar card are enclosed) have visited the site on \_\_\_\_\_ with DPA representative Shri \_\_\_\_\_, (Designation) \_\_\_\_\_ for the work of "AMC for electrical works at Administrative Office Building and Gopalpuri Colony for a period of two years" and the sites and other issues related to tender to my satisfaction.

<b>Seal, name and signature of the bidder</b>	<b>Name, designation and signature of DPA representative who assisted bidder during site visit.</b>	<b>Seal, name and signature of XEN (E)</b>

## **SECTION VIII**

### **Approved Make List for Electrical Items**

<b>Sr. No.</b>	<b>Description</b>	<b>Recommended Makes</b>
1	HT VCB	SIEMENS / CROMPTON GREAVES/ABB/Schneider/JYOTI
1(a)	HV Gas Insulated Breakers	SIEMENS /Schneider/ABB
2	POWER TRANSFORMERS	VOLTAMP/CROMPTON GREAVES /BHARAT BIJLEE/ BHEL/ SIEMENS/ ABB/ Schneider/T&R
3	DISTRIBUTION TRANSFORMERS	EMCO/KIRLOSKAR/PATSON/VOLTAMP/ ABB / Schneider / T&R
4	RESIN CAST TRANSFORMERS	
	A) RESIN CAST IMPREGNATED	VOLTAMP / KIRLOSKAR / EMCO
	B) DRY CAST	VOLTAMP/KIRLOSKAR/EMCO
5	HT XLPE CABLES	POLYCAB/TORRENT/RPG ASIAN/ /GLOSTER/ UNISTAR/ UNISTAR/KEI/FINOLEX/HAVELS
6	LT XLPE CABLES	POLYCAB/TORRENT/RPG ASIAN/ / RALLISON/PRIMECAB/ HAVELLS/ UNISTAR/AVOCAB / ADCAB
7	LT ACB	SIEMENS/L&T/SCHNEIDER/C&S
8	PROTECTION RELAYS	AREVA/L&T/SIEMENS/ABB/C&S
9	LT PANEL	CPRI APPROVED
10	CHANGE OVER SWITCH	SIEMENS/L&T/ABB/C&S/SCHNIDER/ LEGRAND / INDOASIAN
11	SFU FOR MAIN LT DISTRIBUTION PANELS	SIEMENS/L&T/ABB/C&S
12	SFU FOR DISTRIBUTION PANELS & FEEDER PILLERS	SIEMENS/L&T/ABB/C&S/ SCHNEIDER/ LEGRAND/ INDOASIAN/HAVELLS
13	MCCB FOR MAIN LT DISTRIBUTION PANELS	SIEMENS/L&T/ABB
14	MCCB FOR DISTRIBUTION PANELS AND FEEDER PILLERS	SIEMENS/L&T/ABB/C&S/ SCHNIDER/ LEGRAND/ INDOASIAN/HAVELLS
15	MCB/ELCB/RCCB/ RCCBO FOR MAIN LT DISTRIBUTION PANELS	SIEMENS/HAGER L&T/ABB
16	MCB FOR DISTRIBUTION PANELS AND FEEDER PILLERS	SIEMENS/L&T/ABB/C&S/ SCHNEIDER/ LEGRAND/ INDOASIAN/ HAVELLS/ STANDARD
17	MCB DISTRIBUTION BOARD	STANDARD / HENSEL/LEGRAND / INDOASIAN / HAVELLS
18	MULTI FUNCTION DIGITAL METER FOR MAIN LT DISTRIBUTION PANELS/DIGITAL KWH METERS/ABT METER	L&T/ENERCON/SECURE/L&G/ RISHABH or APPROVED BY PGVCL Make.
19	ANALOG VOLT/AMPARE METER	RISHABH/AE/ENERCON/L&T

	FOR DISTRIBUTION PANELS AND FEEDER PILLERS	
20	SECTOR SWITCH FOR VOLTMETER/AMPARE METER	L&T/SIEMENS/C&S
21	POWER CONTACTOR & OVER LOAD RELAYS	L&T/SIEMENS/ABB
22	QUARTZ TIME CLOCK SWITCH	L&T/INDOASIAN/SIEMENS
23	PVC WIRE WITH COPPER CONDUCTOR	RR KABEL / KEI / POLYCAB/MILEX/GUJCAB/ STANDARD / FINOLEX / ANCHOR
24	FLUSH TYPE SWITCHES, SOCKETS, HOLDERS AND CEILING ROSES & ELECTRONIC REGULATORS	ANCHOR/MK/NORTHWEST/VINAY /PANAMA / HAVELLS
25	DOOR BELLS/CALL BELLS	ANCHOR/LEGEND/MK/NORTHWEST
26	MODULAR SWITCHES, SOCKETS, PLATES & BOXES	ANCHOR / MK / NORTHWEST / LEGRAND /HAVELLS / INDOASIAN / SIMENS.
27	PVC CONDUIT/OVAL CONDUIT & CASSING CAPPING AND ACCESSORIES	PRECISION/VULCAN/FINOLEX/ GARWARE/ RESTOPLAST/ SWASTIK / BPI
28	GLS LAMPS & FLUORESCENT LAMPS	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE
29	HPSV, HPMV & METAL HELIDE LAMPS	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE
30	IGNITORS FOR HPSV, METAL HELIDE LAMPS	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE
31	LUMINARIES	PHILIPS / BAJAJ / WIPRO / CROMPTON GREAVES / OSRAM / SURYA ROSHNI / GE/C&S
31a	LED LUMINARIES	Philips /Bajaj/Wipro/CG/Surya/Pyrotech/Syska/Nessa/C&S having surge Protection $\geq 10\text{KV}$ for fittings & internal Surge Protection for Driver of $\geq 4\text{KV}$ , LED Chip only OSRAM/CREE/Philips Lumileds/Citizen/ with LM-79,80 CERTIFICATION
32	CEILING FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC
33	WALL MOUNTING FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC
34	EXHUAST FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC
35	HEAVY DUTY INDUSTRIAL WALL MOUNTING FANS	BAJAJ/ORIENT/USHA/CROMPTON GREAVES / ALMONARD/GEC or its equivalent
36	WATER COOLER	VOLTAS/SHRIRAM USHA/BLUE STAR
37	AIR CONDITIONERS	VOLTAS/CARRIER/BLUESTAR/USHA/ HITACHI/LG/ SAMSUNG/ONIDA
38	REFRIGERATORS	VOLTAS / CARRIER / BLUESTAR / USHA / HITACHI / LG / SAMSUNG / WHIRLPOOL



39	VOLTAGE STABILIZER	VEELINE / CAPRI
40	INVERTERS	SUKAM / MICROTEK
41	D.G. SETS	
	A) ENGINE	CUMMINS/GREAVES/KIRLOSKAR/ CATERPILLAR /ASHOK LEYLAND /VOLVO
	B) ALTERNATOR	STAMFORD/CROMPTON GREAVES /JYOTI/ KIRLOSKAR ELECTRIC
42	ELECTRIC MOTOR	ALSTOM/CROMPTON GREAVES /SIEMENS/ KIRLOSKAR/ABB
43	WATER PUMPS	SWASTIK / KSB
44	WATER GEYSER	BAJAJ/USHA / CROMPTON GREAVES / SPHEREHOT / RACOLD
45	LUGS & CABLE GLANDS	DOWELLS / JAINSON / BRACO

Note:

In case of supply of Make of material which is not in the DPA approved Make list, the said material should be supplied as per the latest GETCO approved Make list.

In case of supply of Make of material which is neither available in the DPA approved Make list not in the latest GETCO approved Make list, the said material should be supplied as per the Make decided by EIC for which written intimation will be given to the contractor.

Before procurement of material, the Make of the material should be approved by EIC in writing.

## **SECTION-IX**

## SECTION - XI

Permit to Work FormElectrical Division

PTW No. :

Date :

Permit valid only for job mentioned and the maximum validity is only for \_\_\_\_ Hrs./Days from \_\_\_\_ Hrs./Days on \_\_\_\_/\_\_\_\_/2021.

(This copy is to be displayed at work site & preserve after closure.)

## A. Type of Permit :

Electric ☐ Excavation ☐ Confined Space Entry ☐ Hot Permit ☐ Lifting & Slings  
Work at Height.

## B. Job Details :

Location :

Job Executed by :

## C. Nature of Work :

☐ Civil Job ☐ Backfilling ☐ Dewatering ☐ Excavation ☐ House Keeping ☐ Overhauling  
☐ Protection to Cables ☐ Routine Maintenance ☐ Work at Height ☐ Finding of Fault at HT Cable  
☐ Finding of Fault at LT Cable ☐ Finding of Fault at 11 KV Switchgear ☐ Finding of Fault at 66 KV Equipment  
at Yard ☐ Finding of Fault at 66/11 KV Transformer ☐ Finding of Fault at 11/0.440 KV Transformer  
☐ Finding of Fault at 440V/220 V Cable ☐ Finding of Fault at Wiring ☐ Finding of Fault at Switchgear  
☐ Finding of Fault at HT Panel ☐ Finding of Fault at LT Panel.

## D. PPEs &amp; Fire Protection at Site :

Gloves ☐ Helmet ☐ Safety Shoes ☐ Face Shield ☐ Safety Glasses ☐ Dust Mask ☐ Fire Shield  
Safety Belt.

## E. Isolation List :

S. No.	Isolation of	Tagging Condition	Un-Tagging Condition	Lock

## F. Description :

Details	Name, Designation & User ID	Signature
Contractor's Supervisor : I've been communicated & understood the work to be executed and the precautions & safety measures to be taken and agreed to abide by the same.		
Approve : I've checked all the safeguards, and also, verified that it is isolated from all sources of energy, discharged, tested & earthed and all the hazards have been identified, assessed & controlled adequately and I approve this Permit.	JE (E)/Electrical Supervisor	

## G. Permit Closure/Cancellation :

Details	Date & Time	Signature	Name & Designation
Job Completed & Permit Closed			JE (E)/ Electrical Supervisor
Job Cancelled / Permit Cancelled			JE (E)/ Electrical Supervisor
Job Pending / Issue New Permit			JE (E)/ Electrical Supervisor

**Signature & Seal  
of Contractor**

**XEN (E)**

**SECTION-X**  
**Format for submitting information for Bid Capacity**

**For calculating “A” of the formula.**

Sr. No.	Financial Year	Value of work undertaken	Multiplying factor as given in the pre-qualification criteria	Value updated to the price level of the year (Col C x col D)
A	B	C	E	F
1				
2				
3				
4				
5				
6				
7				

**For calculating “B” of the formula**

Sr. No.	Name of client	Name of work	Work order no. and date	Schedule period of completion as per work order with start date	Contract value	Value of work done	Remaining value of work done	Anticipated date of completion	Remaining value of work done (Completion period of the work for which bids are invited by DPA) from the date of opening of preliminary bid

**Signature & Seal of Contractor**