

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

DEENDAYAL PORT AUTHORITY

ISO 9001:2008 | ISO 14001 | ISPS COMPLIANT PORT



MECHANICAL ENGINEERING DEPARTMENT

ELECTRICAL DIVISION

TENDER NO. EL/WK/2827

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Superintending Engineer (E)
Electrical Division
Deendayal Port Authority,
Ground Floor,
Port & Custom Building,
New Kandla – 370 210.
Phone No. (02836) 220636/270184
Fax No. (02836) 270184/270475
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CONTENTS OF TENDER DOCUMENT

Bid Reference No. EL/WK/2827

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- **SECTION I : Instruction to Bidders**
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TENDER NOTICE NO.EL/WK/2827

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Estimated cost put to tender	₹ 9,84,39,697.00/-																																				
Tender fee :	<p>Rs. 5000 + 900 (GST) Present rate of GST is 18% Through on line transfer in PNB bank account no. 2177002100004628 - Deendayal Port Authority - (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-42202,35109,43219 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 along with Bid Securing Declaration Form (Form 7 in Section IV) in preliminary bid.</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – F</td><td>CONSTRUCTION</td></tr> <tr> <td>Division – 42</td><td>CIVIL ENGINEERING</td></tr> <tr> <td>Group - 422</td><td>Construction of utility projects</td></tr> <tr> <td>Class – 4220</td><td>Construction of utility projects</td></tr> <tr> <td>Sub Class - 42202</td><td>Construction/erection and maintenance of power, telecommunication and transmission lines</td></tr> </tbody> </table> <p>OR</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – F</td><td>CONSTRUCTION</td></tr> <tr> <td>Division – 43</td><td>Specialized construction activities</td></tr> <tr> <td>Group - 432</td><td>Electrical, plumbing and other construction installation activities</td></tr> <tr> <td>Class – 4321</td><td>Electrical installation</td></tr> <tr> <td>Sub Class - 43219</td><td>Other electrical installation n.e.c.</td></tr> </tbody> </table> <p>OR</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 – F	CONSTRUCTION	Division – 42	CIVIL ENGINEERING	Group - 422	Construction of utility projects	Class – 4220	Construction of utility projects	Sub Class - 42202	Construction/erection and maintenance of power, telecommunication and transmission lines	Level	Description	Section – F	CONSTRUCTION	Division – 43	Specialized construction activities	Group - 432	Electrical, plumbing and other construction installation activities	Class – 4321	Electrical installation	Sub Class - 43219	Other electrical installation 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.
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EMD	<p>₹ 9,84,397/- (Rupees Nine lakhs Eighty four thousand three hundred ninety seven only)</p> <p>Through the form of Bank Guarantees (as per enclosed format Form-6 InSection IV) to 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 asper National Industrial Classification-42202,35109,43219 mentioned in the table below only shall be come eligible for exemption from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate along with Bid Securing Declaration Form (Form 7 in Section IV) in preliminary bid.</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – F</td><td>CONSTRUCTION</td></tr> <tr> <td>Division – 42</td><td>CIVIL ENGINEERING</td></tr> <tr> <td>Group - 422</td><td>Construction of utility projects</td></tr> <tr> <td>Class – 4220</td><td>Construction of utility projects</td></tr> <tr> <td>Sub Class - 42202</td><td>Construction/erection and maintenance of power, telecommunication and transmission lines</td></tr> </tbody> </table> <p>OR</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – F</td><td>CONSTRUCTION</td></tr> <tr> <td>Division – 43</td><td>Specialized construction activities</td></tr> <tr> <td>Group - 432</td><td>Electrical, plumbing and other construction installation activities</td></tr> <tr> <td>Class – 4321</td><td>Electrical installation</td></tr> <tr> <td>Sub Class - 43219</td><td>Other electrical installation n.e.c.</td></tr> </tbody> </table> <p>OR</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 – F	CONSTRUCTION	Division – 42	CIVIL ENGINEERING	Group - 422	Construction of utility projects	Class – 4220	Construction of utility projects	Sub Class - 42202	Construction/erection and maintenance of power, telecommunication and transmission lines	Level	Description	Section – F	CONSTRUCTION	Division – 43	Specialized construction activities	Group - 432	Electrical, plumbing and other construction installation activities	Class – 4321	Electrical installation	Sub Class - 43219	Other electrical installation 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.
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Last date of downloading	08/07/2024 upto 15:00																																				
Last date and time of submission of E-tender	08/07/2024 upto 15:30 only on website https://kpt.nprocure.com :																																				
Pre-bid meeting	14/06/2024 @ 15:00 Hrs. in the Old Board Room, A. O. Building, Gandhidham																																				

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Date and time for opening of E- tender	08/07/2024 at 16:00 hrs
Downloading websites	https://kpt.nprocure.com , http://www.deendayalport.gov.in as well as http://www.eprocure.gov.in .
Corrigendum, if any, will be placed on websites only.	

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

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NOTICE INVITING ON LINE TENDER

Details about tender:

Department Name	Mechanical Engineering Department
Circle/ Division	Electrical Division, Port & Customs Building, Ground Floor, New Kandla-(Kutch)-370210
Tender Notice No.	EL/WK/2827
Name of Project	"Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years"
Name of Work	"Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years"
Estimated Contract Value (INR)	₹ 9,84,39,697.00/-
Period of Completion (in Months)	24 months from the date of issue of work order
Bidding Type	Open
Bid Call (Nos.)	One
Tender Currency Type	Single
Tender Currency Settings	Indian Rupee (INR)
Integrity Pact	<p>1) <i>The Employer / Authorized person of Employer shall sign the IP in the presence of a witness from their side, who shall also affix his /her signature thereof and then the same IP shall be uploaded by them on n-procure portal;</i></p> <p>2) <i>The potential bidders shall download and print the IP Agreement signed by the Employer and their witness and affix his/her signature on the IP Agreement in the presence of a witness from his/her side, who shall also affix his / her signature thereof. Having completed the signing procedure, the potential bidder shall upload the duly filled and signed IP Agreement on n-procure portal.</i></p> <p>3) <i>The procedure mentioned above regarding signing of Integrity Pact Agreement by both the parties (Employer and potential bidders) shall be completed online. However, In case of any technical glitch due to which of any potential bidders is unable to upload the IP Agreement, then he/she shall submit the hard copy of the duly filled, signed IP Agreement, to the Department concerned of DPA within a period of</i></p>

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	<i>seven days and prior to opening of the Technical Bid, failing which Bid of potential bidders shall be treated as disqualified.</i>																						
Pre-Qualifying Criteria:	<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 31st March of the previous financial year, should be at least ₹ 147.66 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> <p>i) Three similar completed works each costing not less than the amount equal to ₹ 196.88 Lakh.</p> <p style="text-align: center;">Or</p> <p>ii) Two similar completed works each costing not less than the amount equal to ₹ 246.10 Lakh.</p> <p style="text-align: center;">Or</p> <p>iii) One similar completed work costing not less than the amount equal to ₹ 393.76 Lakh.</p> <p>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.</p> <table border="1"> <tr> <td>Financial Year</td><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td></tr> <tr> <td>Index</td><td>152.5</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></tr> </table>							Financial Year	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17	Index	152.5	139.4	123.4	121.8	119.8	114.9	111.6
Financial Year	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17																
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	Multiplying Factor	1.00	1.09	1.24	1.25	1.27	1.33	1.37	
	<p><u>IMPORTANT:</u></p> <p>(i) The value of annual turnover is not to be considered towards —A as mentioned in the formula.</p> <p>(ii) The information may be provided as per the format given at Section XIII.</p> <p>(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.</p> <p><u>Note:</u></p> <p>(i) The particular row in the TDS certificate (Form 16A or Form 26AS), which indicates the credit of the payment received from the client, should be highlighted.</p> <p>(ii) 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.</p> <p>(iii) In case any discrepancies between the TDS (Form 16A or Form 26AS) and the declaration given by the Chartered Accountant with regard to payment received from the client, it should be explained.</p> <p>(E) The contractor shall have valid electrical contractor's license and electrical supervisor 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-VIII towards evidence of site visit. (The bidder who has not physically visited the site and not uploaded document given at Section-VIII, 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.</p>								
Similar Work Definition	<p>Similar works means:</p> <p>(1) Having experience in SITC of 11KV and above substation and its associated equipment's with maintenance.</p> <p style="text-align: center;">OR</p> <p>(2) SITC of High mast tower with associate equipment's, like 11 KV or</p>								

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	<p>above substation with maintenance.</p> <p style="text-align: center;">OR</p> <p>(3) SITC of both (1) and (2)</p> <p style="text-align: center;">OR</p> <p>(4) Annual Maintenance contract of above (1) and (2)</p>																																				
Joint Venture	Not Allowed																																				
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Bid Document Fee:	<p>Rs. 5000 + 900 (GST)= 5900/- Present rate of GST is 18% (non-refundable)/-(Five Thousand Nine Hundred Only)</p> <p>Through online transfer in PNB bank account no. 2177002100004628 - Deendayal Port Authority - (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-42202,35109,43219 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 along with Bid Securing Declaration Form (Form 7 in Section IV) in preliminary bid.</p> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – F</td><td>CONSTRUCTION</td></tr> <tr> <td>Division – 42</td><td>CIVIL ENGINEERING</td></tr> <tr> <td>Group - 422</td><td>Construction of utility projects</td></tr> <tr> <td>Class – 4220</td><td>Construction of utility projects</td></tr> <tr> <td>Sub Class - 42202</td><td>Construction/erection and maintenance of power, telecommunication and transmission lines</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Level</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Section – F</td><td>CONSTRUCTION</td></tr> <tr> <td>Division – 43</td><td>Specialized construction activities</td></tr> <tr> <td>Group - 432</td><td>Electrical, plumbing and other construction installation activities</td></tr> <tr> <td>Class – 4321</td><td>Electrical installation</td></tr> <tr> <td>Sub Class - 43219</td><td>Other electrical installation n.e.c.</td></tr> </tbody> </table> <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 – F	CONSTRUCTION	Division – 42	CIVIL ENGINEERING	Group - 422	Construction of utility projects	Class – 4220	Construction of utility projects	Sub Class - 42202	Construction/erection and maintenance of power, telecommunication and transmission lines	Level	Description	Section – F	CONSTRUCTION	Division – 43	Specialized construction activities	Group - 432	Electrical, plumbing and other construction installation activities	Class – 4321	Electrical installation	Sub Class - 43219	Other electrical installation 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.
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Date & Place of Pre Bid Meeting	14/06/2024 @ 15:00 Hrs. at A.O. Building, Gandhidham																																				
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Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Condition

(1) **Tender Fee : Rs. 5000 + 900 (GST)= 5900/-** Present rate of GST is 18% (non- refundable)/-(Five Thousand Nine Hundred Only)

Through on line transfer in PNB bank account no. 2177002100004628 - Deendayal Port Authority - (IFSC code PUNB0217700). Scanned copy of RTGS no. and date of transfer may be uploaded on—(n)procure website.

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2) **EMD: ₹ 9,84,397/-** (Rupees Nine lakhs Eighty four thousand three hundred ninety seven only)

Through the form of Bank Guarantees (as per enclosed format Form-6 In Section IV) to be uploaded on—(n)procure website.

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3

- 1) *The Employer / Authorized person of Employer shall sign the IP in the presence of a witness from their side, who shall also affix his /her signature thereof and then the same IP shall be uploaded by them on n-procure portal;*
- 2) *The potential bidders shall download and print the IP Agreement signed by the Employer and their witness and affix his/her signature on the IP Agreement in the presence of a witness from his/her side, who shall also affix his / her signature thereof. Having completed the signing procedure, the potential bidder shall uploaded the duly filled and signed IP Agreement on n-procure portal.*
- 3) *The procedure mentioned above regarding signing of Integrity Pact Agreement by both the parties (Employer and potential bidders) shall be completed online. However, In case of any technical glitch due to*

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

	<p><i>which of any potential bidders is unable to upload the IP Agreement, then he/she shall be submit the hard copy of the duly filled, signed IP Agreement, to the Department concerned of DPA with in a period of seven days and prior to opening of the Technical Bid, failing which Bid of potential bidders shall be treated as disqualified.</i></p> <p>Accordingly, offer of those bidders shall only be opened whose EMD, Tender Fee and Integrity pact (duly signed by principal, bidder and witness in proper format attached) and along with Bid Securing Declaration Form (Form 7 in Section IV) are received electronically.</p> <p>However, for the purpose of realization, bidder shall send the same in original to SE(E) at the time of tender opening or send the same by hand/courier/RPAD/Speed post so as to reach the Supdt. Engineer (E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla-(Kutch)-370210 within 07 days from the last date of opening without fail, without which the bid shall be treated as non-responsive.</p>
Remarks	The hard copies should reach to the Electrical Division within 07 days from the date of opening of preliminary bid.
Bid Opening Date	Technical Bid will be opened on 08/07/2024 @ 15:30 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	<ul style="list-style-type: none"> a. Documents in support of fulfilling Qualifying Criteria as indicated above. b. EMD -As indicated above. c. Tender fee - As indicated above. d. Integrity pact (duly signed by bidder and witness) e. Documents Mentioned in Eligibility Criteria. f. Bid Security Declaration form (In case of MSE).
Officer- Inviting Bids:	Superintending Engineer (E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla-(Kutch)-370210
Bid Opening Authority :	Superintending Engineer (E)
Address:	Superintending Engineer (E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla-(Kutch)-370210
Contact Details :	Superintending Engineer (E), Electrical Division, Port & Custom Building, Ground Floor, New Kandla (Kutch)-370210 Phone: 02836-270209, 270342. Fax No. 02836 270184.
Corrigendum, if any, will be placed on websites only.	

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: -

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

(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

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

-Sd/-

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION – I

INSTRUCTION TO BIDDERS

A. GENERAL

1. Scope of Bid

1.1 The Superintendent Engineer (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 The Bidders shall fulfil the following pre-qualification criteria:-

Sr. No	Particulars	Supporting Documents
(a)	Average Annual financial turnover during the last 3 years, ending 31 st March of the previous financial year, should be atleast ₹ 147.66 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	(a) A copy of the completion certificate in respect of the successfully completed similar work.

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

	<p>be either of the following:</p> <p>(i) Three similar completed works each costing not less than the amount equal to ₹ 196.88 Lakh. Or</p> <p>(ii) Two similar completed works each costing not less than the amount equal to ₹ 246.10 Lakh. Or</p> <p>(iii) One similar completed work costing not less than the amount equal to ₹ 393.76 Lakh.</p>	<p>(b) A copy of detail work order should also be submitted for which the bidder is submitting the completion certificate.</p> <p>Such completion certificate should be issued on the letter head of the client and invariably reflect the following details:-</p> <ol style="list-style-type: none"> 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>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. Along with the TDS certificate, a statement should be submitted giving details showing the name of the client, gross amount of the work, TDS amount and net payment received. The statement should be signed by the Chartered Accountant.</p>
(C)	<p>Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity is more than the total bid value.</p> <p>The available bid capacity will be calculated as under: Assessed</p> <p>Available Bid capacity = $A \times N \times 2 - B$, Where,</p> <p>"N" = Number of years prescribed for completion of the subject contract.</p> <p>"A" = Maximum value of works executed in any one year during last seven years (at current price level).</p> <p>"B" = Value at current price level of existing commitments and on-going works to be completed in the next 'N' years.</p> <p>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.</p>	

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	Financial Year	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17
	Index	152.5	139.4	123.4	121.8	119.8	114.9	111.6
	Multiplying Factor	1.00	1.09	1.24	1.25	1.27	1.33	1.37
	<p><u>IMPORTANT:</u></p> <p>(i) The value of annual turnover is not to be considered towards —A as mentioned in the formula.</p> <p>(ii) The information may be provided as per the format given at Section XIII.</p>							
(d)	<p>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><u>Note:</u></p> <p>(i) The particular row in the TDS certificate (Form 16A or Form 26AS), which indicates the credit of the payment received from the client, should be highlighted.</p> <p>(ii) 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.</p> <p>(iii) In case any discrepancies between the TDS (Form 16A or Form 26AS) and the declaration given by the Chartered Accountant with regard to payment received from the client, it should be explained.</p>							
(e)	<p>The contractor shall have valid electrical contractor's license and electrical supervisor 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>							
(f)	<p>Upload duly signed document given at Section-VIII towards evidence of site visit. (The bidder who has not physically visited the site and not uploaded document given at Section-VIII, 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.</p>							
(g)	Similar works means				(1) Having experience in SITC of 11KV and above sub station and its associated equipment's with maintenance.			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

		<p style="text-align: center;">OR</p> <p>(2) SITC of High mast tower with associate equipment's, like 11 KV or above sub station with maintenance.</p> <p style="text-align: center;">OR</p> <p>(3) SITC of both (1) and (2)</p> <p style="text-align: center;">OR</p> <p>(4) Annual Maintenance contract of above (1) and (2)</p>
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4.2 All bidders shall scan and forward the following information and documents with their bids.

- a. 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.
- b. 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
- c. 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.
- d. Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past three years ending 31st March of the previous financial year.
- e. Duly filled Forms mentioned in Section – IV- Part – I.
- f. PAN, Registration with GST, VAT, Provident Fund Authorities.
- g. Valid Electrical Contractor License issued by respective State / Central Govt. (Without uploading of Valid Electrical Contractor License bid will be considered irresponsible)**
- h. EMD in form of Bank Guarantees (as per enclosed format Form-6 In Section IV) Through on line transfer in PNB bank account no. 2177002100004628 - Deendayal Port Authority - (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 shall become eligible for exemption from payment of Tender fee/EMD. Such bidder shall upload the scanned copy of valid certificate in preliminary bid.

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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.

- i. Tender fee in form of Digital Transfer only.
- j. Information regarding any litigation, current or during the last five years, in which the Bidder is involved, the parties concerned, and disputed amount.
- k. A certificate by the bidder that they have not been banned / black listed by any govt. Agency.
- l. Power of attorney (dully accompanied by resolution of Board in case of company).
- m. Qualifications and experience of key site management and technical personnel proposed for the contract.
- n. 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 shall 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 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.

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- r. Bidders should give an undertaking 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.
- t. Duly signed Integrity pact agreement by the bidder and witness (also to be arranged by bidder) to be submitted in preliminary bid.

u. Bid Securing Declaration Form for MSE's (Form 7 in Section IV)

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 be disqualified. The bidder can be disqualified from bidding for any contract with DPA for a period of three years from the date of notification.

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

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9.1 The set of bidding documents comprises the documents listed in the below and addenda issued in accordance with clause-19:

Invitation for Bids (NIT)

Bid Reference No. EL/WK/2827

•	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
•	SECTION VII	:	Drawings
•	Section VIII	:	Evidence Towards Site Visit
•	Section IX	:	Approved Make List for Electrical Items
•	Section X	:	Maintenance Schedule
•	Section XI	:	Format for work Permit
•	Section XII	:	Line clearance Format
•	Section XIII	:	Information of bid capacity
•	Section XIV	:	Integrity pact

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 Website <https://kpt.nprocure.com>, www.deendayalport.gov.in, and 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 14/06/2024 @

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15:00 hrs at 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 or 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) Bid Security i.e. EMD and Tender Fees and Integrity Pact (Preliminary Bid) and **along with Bid Securing Declaration Form for MSE's (Form 7 in Section IV)**

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, Duties, and other incidentals charges like Transportation, Loading, Unloading, Boarding & Lodging etc. except GST and shall remain firm till completion of work. All other duties, taxes, cesses applicable if any, shall be borne by the contractor

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

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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.

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)

The tender shall be accompanied by Earnest Money Deposit of **Rs. 9,84,397/- (Rupees Nine lakhs Eighty four thousand three hundred ninety seven only)**

(i) The tender not accompanied with EMD shall not be considered & their technical and price bid will be returned un-opened. Through Bank Guarantees (as per enclosed format Form-6 In SectionIV) 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 **along with Bid Securing Declaration Form (Form 7 in Section IV)** in preliminary bid in order to become eligible for exemption from payment of EMD. It may be noted that exemption certificate issued by any other authority will not be entertained.

(a) EMD

- (i) The EMD of successful Bidder will be refunded on submission of performance guarantee (in Form 10 of SECTION IV) as per the tender clause and executing the agreement (in Form9 of SECTION IV) 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: **Necessary action shall be taken to disqualify the bidder from bidding process of any contract with DPA for a period of 03 years, 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
 - a) sign the Agreement or
 - b) furnish the required performance Guarantee

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- (iv) The bidder submits more than one bid
- (v) If L-1 Bidder fail to justify the abnormal rate quoted by them or rates not quoted considering ALC/CLC rate of labour prevailing at the time of bidding, offer of the L-1 bidder shall be rejected, EMD shall be forfeited and they will be liable for debarring further tender from the DPA bidding for a period of three years.

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.

D. 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 Infotower,
Bodakdev, Ahmedabad. Tel.
91 79 26857316/17/18
Fax: 91 79 26857321
Mobile: 9327084190 / 9898589652.
E-mail: nprocure@gnvfc.net.

The accompaniments to the tender documents as described under Clause **4.2** shall be Scanned and

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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 Superintendent Engineer (Electrical) on same day & time of opening of the tenders.

20.1 The envelopes shall be addressed to:

(a) Superintendent Engineer (E)
Deendayal Port Authority,
Electrical Division, Ground Floor,
Port & Customs Building,
New Kandla – 370210.Gujarat-State.

(b) bear the following identification:

Accompaniments for "Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years"

Bid reference No **EL/WK/2827**

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> not later than 15:00 Hrs on 08/07/2024.
- 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> 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> 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> 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> and the one submitted by the tenderer, the conditions mentioned in the port's tender document uploaded on <https://kpt.nprocure.com> shall prevail. Besides, the tenderer shall be liable for legal action for the lapses.

22. Late Bids

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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, the bidder can be disqualified from bidding for any contract with DPA for a period of three years from the date of notification.

E. Bid Opening and Evaluation

24. Bid Opening

- 24.1 On the due date and time, the employer will first open 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> and www.deendayalport.gov.in as well as 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 or 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

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- (a) Has been properly digitally signed,
- (b) Meets the eligibility criteria defined
- (c) Is accompanied by the required Bid security and tender fees;
- (d) is responsive to the requirements of the Bidding documents.
- (e) GST 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.

F. Award of Contract

28. Award Criteria

The employer will award the work to the bidder whose bid has been evaluated to be technically – commercially responsive and the lowest evaluated bid subject to submission of agreement and performance security.

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

However prospective bidder(s) may raise query relating to bidding conditions, bidding process and/or rejection of its bids. The reasons for rejecting a tender or non-issuing tender to a prospective bidder will be disclosed where written enquiries are made by concerned bidder.

30. Letter of Award:

The Chief Mechanical Engineer will issue the Letter of Award (Form No.8) intimating the successful bidder about the proposed pre-acceptance of tender.

31. Notification of Award and Signing of Agreement

- i) The Bidder whose 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 Award") 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

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furnishing of a performance security in accordance with the provisions of tender condition.

- iii) The Agreement will be submitted by successful Bidder within 14days (National Bid) 28 days (Global Bid) of issue of the notification of award (Letter of Award). 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 Award.

- i) The successful Bidder will be required to execute an agreement at his expense on three Hundred Rupees (Rs.300/-) Non-Judicial Stamp Paper in the proper departmental format (Form 9) for the due and proper fulfilment of the contract within 14 days (national Bid) 28days (Global bid) from the date of Letter of Award.

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 Rs.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 initialed.

33. Performance Security

Security deposit shall consist of two parts; a) Performance Guarantee to be submitted after issue of LOI, and b) Retention money to be recovered from Running Bills.

- 1) Performance Guarantee shall be 10% of the contract price, of which 5% of contract price should be submitted as Performance Guarantee in form of BG/FDR/Digital Transfer within 21 days, on receipt of Letter of Award and balance 5% to be recovered as Retention Money from Running Bills. Recovery of 5% Retention Money to commence from the First RA Bill

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onwards @ 5% of the Bill Value from each Bill. Retention Money will be refunded within 14 days from the date of payment of final bill. Balance SD will be refunded immediately not later than 14 days from completion of defect liability period.

- 2) Successful Bidder has to submit the Performance security @ 5% of Contract price within 21 days of receipt of Letter of Award, failing which the work will not be awarded and the Bid Security i.e., EMD will be forfeited.
- 3) The Deendayal 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 bank guarantee towards performance guarantee cum security deposit will be accepted in the form of BG/FDR/Digital Transfer from any nationalized bank/scheduled bank (Except co-operative bank) having its branch at Gandhidham.
- 5) The Deendayal 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 refunded immediately not later than 14 days from completion of defect liability period.
- 7) 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 is superseded by Clause No. 1 under Special Conditions, 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 twenty four (24) months from the date of issue of Work Order. The contract period is extendable to a period of up to one year on the same rate, terms and condition on mutual consent.

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 any thing of

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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**

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

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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 Deendayal Port Authority, 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 Award, 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 and excise 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.

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- 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"** re 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

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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:

(This clause is superseded by Clause No. 2 under Special Conditions, Section-III)

All payments shall be made in Indian rupees unless specifically mentioned.

(I) In respect of tender for supply and installation (Changes to be made as per nature of the Work)

- i. 70% of above 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 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) and 90% of item rate for item covers only supply/laying/fixing (if any).
- iii. 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).

II) In respect of lump sum work (Changes to be made as per nature of the Work)

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8.4 All the materials shall stand insured from the time of arrival at site till commencement of erection against fire, pilferage, damage and against natural calamities for the value of 90% of each item.

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.

9. Time Extensions:

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:

(This clause is superseded by Clause No. 4 under Special Conditions, Section-III)

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.

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 upto ten percent (10%) of the contract value and forfeit the security deposit made by the contract besides getting the work completed by other

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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:

(This clause is superseded by Clause No. 11 under Special Conditions, Section-III))

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 Schedule – B:

The overall as well as individual variations shall be $\pm 30\%$ 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

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rate separately, which shall be reimburse 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:

Income-Tax deductions and surcharge 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. 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 Authority 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 Authority. Further, in case of any delay due to stoppage of work ordered by the Port Authority to avoid interruption in other important activities of Port Authority 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.

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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

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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 Authority 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.

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(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 may delegate any of the duties and responsibilities to other Officers / officials 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

(This clause is superseded by Clause No. 5 under Special Conditions, Section-III)

(i) Electricity, and water execution of the work at site shall be provided on Free of cost subject to availability. Necessary arrangements has to be borne by contractor.

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(ii) The employer will not provide accommodation, during the tenure of contract. However, suitable accommodation will be provided for site office purpose at inside cargo jetty area.

(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 will clarify queries on the Technical Data.

32. Approval by the Engineer-in-Charge.

The Contractor shall submit the make of material, equipment's, specifications and drawings for proposed Work to the Engineer-in-Charge, who is to approve them subject to compliance with the Technical specifications and drawings.

The Engineer-in-Charge 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 authorised 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

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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 selector dispose off 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:

(This clause is superseded by Clause No. 6 under Special Conditions, Section-III)

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- i. The Third Party Inspection Agency shall be arranged by DPA and cost of Third Party Inspection mentioned below shall be borne by DPA.
- ii. 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.
- iii. The Third Party shall carry out inspection of work as per tender specification/relevant standard.
- iv. 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

(This clause is superseded by Clause No. 8 under Special Conditions, Section-III)

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 4th and 19th 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.

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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:

(This clause is superseded by Clause No. 7 under Special Conditions, Section-III)

All the tools, tackles, 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 provided by DPA free of cost obtained from the concerned authorities of the port.

54. Indian Dock Safety Regulations:

Necessary Indian Dock Safety Regulations for the safety purpose shall be adhered to by the

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contractor and he will be held responsible for any violation of the same.

55. Valid Electrical Contractor License and 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 Commissioner of Electricity, Energy & Petrochemical Department, (Inspection wing), Block No.18, 6th floor, Sector No.II, Udyog Bhavan, Gandhinagar, Government of Gujarat without which the tender shall not be accepted. Contractor shall submit certificate and copy of the license in lieu of the same for consideration.

The contractor shall engage a person having valid Electrical Supervisor's certificate of competency, issued from the Commissioner of Electricity, Energy & Petrochemical Department, (Inspection wing), Block No.18, 6th floor, Sector No.II, Udyog Bhavan, Gandhinagar, Government of Gujarat or equivalent authority from the other states/central Govt, under whose supervision electrical work will be carried out.

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 service tax), duties, fees, Cess etc. and all incidental charges.

58. Labour License:

The contractor will have to obtain License from Assistant Labour Commissioner (ALC), Goplapuri, 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 case the port shall resort to forfeiture of EMD (of any) / SD/BG of the bidder, apart from blacklisting the firm for the nest 3 years.

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

-Sd/-

**Signature & Seal
of Contractor**

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

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SECTION –III

SPECIAL CONDITIONS

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

1. Issue of work order (The clause No. 34 of Section-I is replaced as under)

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

Sr. No.	Description	Time period for submission
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
3	Bringing the tools & tackles on site mentioned in the Clause no 32 of Section V.	21 days from the date of receipt of LOI
4	Submission of the staff profile as per Clause no 27 of Section V.	21 days from the date of receipt of LOI
5	Photo ID card issued by the contractor in respect of the staff engaged by the contractor & Bank Account no of each member of the staff.	21 days from the date of receipt of LOI
6	Bringing the consumables as per Clause no 22 of Section V	21 days from the date of receipt of LOI
7	Copy of insurance applicable in tender	21 days from the date of receipt of LOI
8	Policy Verification Certificate of the staff engaged by the contractor as per the tender condition	21 days from the date of receipt of LOI
9	List of material to be supplied & its make mentioned in schedule B & Clause no 22 of Section V obtain approval of EIC	21 days from the date of receipt of LOI
10	Copy of RC Books & relevant documents of vehicles to be submitted by the contractor during the contract period	21 days from the date of receipt of LOI

2. Payment Terms:

(The Clause No. 7 of Section –II is replaced as under)

All payments shall be made in Indian rupees unless specifically mentioned.

(a) (1) Monthly running bill account payment.

Monthly payment will be released on the submission of bill in the prescribed format along with invoice in triplicate and spiral binding of following documents.

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Documents to be submitted	
1	Duly filled applicable maintenance schedule filled up and complete in all respect with a specific certificate from concerned EIC that the maintenance work has been carried out by the contractor is satisfactorily.
2	Shift wise Duty roaster certificate from concerned EIC
3	Copy of Labour Licensee issued by ALC (if applicable and to be given only once except in case extension or issue of new labour license after it's validity period)
4	Duly filled in labour report for the billing period
5	Statement showing the name employees engaged during the billing period, designation, minimum monthly pay (basic pay + DA) as declared by the central government for area C from time to time and actual monthly pay paid.
6	A copy of the bank statement or pass books showing the corresponding amount of payment credited during the billing period. The salary is mandatory to be credited in the bank account of the staff engaged by the contractor.
7	TPIA certification of billing period.
8	Compliance of the observations, if any, raised by TPIA during previous bill.
9	A certificate that PPE kit has been provided to the staff engaged by the contractor.
10	Copy of insurance policy (To be given only once except in case of extension or renewed insurance policy)
11	A certificate mentioning about any change in the staff engaged during the billing period. If any changes in staff has been made, the staff profile as per Clause no 24 of Section V and their police verification certification are required to be submitted.
12	Submission of muster roll of the billing period mentioning the name of staff engaged by the contractor. The muster roll should match with the attendance sheet. This will be the base for ascertaining pay and overtime of staff.
13	A certificate duly signed by EIC that the register required as per clause no. 31 of Section VI has been prepared and updated by the contractor in all respect during the billing prepared.
14	A certificate from SDO (E) about successfully carrying out the raising up and down of each high mast in every 90 days. In case of failure to do so, a statement showing the calculation of penalty along with date and time.
15	A statement showing the status of the all activities for which penalties is to be levied. In case of not imposition of penalty, a "nil statement is required to be submitted.
16	A copy of combined challan generated from website of Employees' Provident Fund Organization and a challan statement prepared by the contractor showing the details of deduction of subscription at the applicable rates (present rate is 12%) done by the contractor from the salary of the staff engaged by the contractor for the work should be submitted. In the challan statement the PF No. And UAN No. Of each staff engaged by the contractor should invariably mentioned. No postponement of the provident fund deduction will be allowed.

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Note:

- (i) 1st RA bill will be accepted for payment only after receipt of the material as per Sr. No. (1) of Table -A of Section – III (ii) Calibration certificate of the measuring instruments in Clause no 32 section V
- (ii) The RA bill for payment for the AMC period after 180 days from the date of issue of work order will be accepted after (1) receipt of the material as per Sr. No. (2) of Table -A of Section-III, (2) after completion of filtration of transformer oil and (3) Submitting report of Dissolved Gas Analysis.
- (iii) The RA bill for payment for the AMC period after 365 days from the date of issue of work order will be accepted i) after OEM inspection as decided by Engineer-in-charge ii) White washing work of all substation inside cargo jetty should be completed iii) Calibration certificate of the measuring instruments in Clause no 32 section V.
- (iv) The RA bill for payment of 18 month after date of issue of work order will be accepted after filtration of transformer oil.
- (v) The payment of final bill will be subject to handing over of port quarter and office spaces, if any, allotted to the contractor and clearance of all outstanding dues.
- (vi) The payment from 2nd bill to pre-final bill, shall be released, subject to the condition that the documentary evidence (copy of paid challan in government 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.

- (2) 100% Payment to be released against receipt of material for Part B at site in good condition and after inspection of same by Engineer -in- Charge/ TPI. The schedule of delivery of material is as under:

Table - A		
Sr. No.	Quantity of material	Delivery schedule
1	50% of quantity of each item of Schedule B of Section VI	Within 60 days from the date of issue of work order
2	Remaining Quantity of material	Between 180 days and 210 days from the date of issue of work order
Note: No part supply of the quantity will be accepted.		

- a) In order to get the reimbursement of the cost of spare parts procured or any major repair got done through OEM by the contractor as per scope of work Clause No. 6 & 7 of Section-V, the contractor is required to submit the following documents:
 - 1) Certificate of being OEM or authorized dealership certificate.
 - 2) Price list of OEMs/Authorize Dealer.
 - 3) A certificate from OEM/authorized dealer that the rate quoted by them is same as being quoted to other government agencies.
 - 4) A report containing justification for requirement of such spare parts.
- b) The reimbursement of the spare parts mentioned in Clause No. 6 & 7 of Section-V will made by DPA on actual basis after receipt of the material in good condition and after acceptance of the same by DPA. In such case, the contractor will be paid 4% as convenience charges on the any payment made to the supplier, which will be calculated for a period of 30 days or from the date of payment made to the supplier to the date of delivery of spare parts made to DPA, whichever is earlier. Such convenience charges will be paid only in case of where procurement cost of spare parts is more than Rs. 1.00 lac.

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3. Insurance:

(The Clause No. 8 of Section-II is replaced 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.

4. Liquidated Damages/Penalties:

(The Clause No. 11 of Section-II is replaced as under)

4.1 Shortfall of consumables

As per Clause No. 22 of scope of work the quantity of Consumables shall be maintain & same should be re-cooped and to be deposited in cranes sub division store every month (i.e. 1st week of every month). The said consumable will be issued on production of Requisition by contractor duly signed by DPA representative. If the consumable is not maintained by Contractor the penalty amounting to Rs: 100/- per one week per item after that double the rate will be charged per item per week till the consumable not updated in DPA store.

4.2 Shortfall of staff

If manpower mentioned above Clause No. 24 of Scope of Work, shall not report on any day same shall be treated as non-deployment of staff on that days/day. In that case the penalty amounting to Rs. 1100/- per day for Site Engineer, Rs. 1000/- per day for Site Supervisor, Rs. 900/- per day for Electrician, Rs 800/- day for Helper & Rs. 800/- day Sweeper whosoever absent on that day.

4.3 Tools and tackles

During the inspection if any instruments mentioned above Clause No. 32 , which required to be kept by the contractor during the contract period as per the tender condition, are not available, penalty at the rate of Rs.: 100/- per instrument per day and Rs. 50/- per tool per day and part thereof the payment will be recovered from the contractor till the time the tools are brought back by the contractor.

4.4 Restoration in HT power supply

In case if the contractor fail to restore the HT power supply within stipulated time period 2 hrs. after intimation (through mobile/text message/whatsapp/email or through any other mode of communication which will be subsequently recorded in site order book also) except for major breakdown like cable fault/ transformer fault, PGVCL incomer failure the penalty of Rs. 500 per hour and part thereof will be levied for the period of first 24 hrs. after which double the amount will be charge uptill the restoration of power.

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4.5 Restoration in LT power supply

In case if the contractor fail to restore the LT power supply within stipulated time period 2 hrs. after intimation (through mobile/text message/whatsapp/email or through any other mode of communication which will be subsequently recorded in site order book also) except for major breakdown like cable fault/ transformer fault, PGVCL incomer failure the penalty of Rs 500 per day up to till the restoration of power.

4.6 Vehicle

If the vehicle mentioned in schedule Part 1 of A for item no 2 (a), (b) & (c) & Part -2 of "A" for item no 2 is not made available on any working day, penalty at the rate of Rs 5000/- per day of 24hrs period will be levied till the vehicle is made available relaxation will be given for servicing of vehicle once in a month for 8hrs period. Log book should be available in individual vehicle and same is to be maintained in each Shift with signature of Contractor supervisor / site in-charge with name of driver and Kilo Meter operated and same should be verified by DPA in charge in each shift, If any log book of the vehicle not maintained daily, then penalty of Rs 500/- per day per vehicle will be imposed.

4.7 Penalty for Lighting

- (i) Contractor is required to maintain 85% glowing of fixture in single tower if the glowing of fixture is reduced below 85% in particular tower then penalty of Rs 1000/- per day will be charged up till illumination of the complete towers.
- (ii) If any area the tower is completely not working except for the incomer cable fault of the feeder panel of the particular tower then penalty will be levied @ Rs. 500/- each Tower per day up-till one week after that double the rate will be charged till the 100% glowing of fixture on the tower.
- (iii) If any of the High mast /Lattice tower not working or illumination is reduced below 80% in the particular area for i.e. 7th berth area, 8th berth back up area, Cargo jetty, 40hecter, New NDA, Old NDA etc.). Then penalty of Rs. 1000/- per tower will be imposed up till one week after that double the rate will be charged till the 100% illumination of the tower is maintained.
- (iv) If in any area less than 80% of the street light pole working. Then penalty of Rs. 500/- for the particular area will be imposed till one week after that double the rate will be charged till 100% illumination of the all the lighting tower is maintained.

4.8 Non-use of PPE by the staff engaged by the contractor.

In case it is noticed that any of the staff engaged by the contractor are working on the site without PPE, a penalty of Rs. 1000.00 per person per incident will be levied on the contractor.

4.9 Delay in the submission of documents

If any delay in the submission of the documents mentioned at **clause no. 31** of Section III, penalty of Rs. 1000.00 per day and part thereof will be levied till completion of complete documents.

4.10 Non raising up and down of high mast tower.

All High Mast tower needs to be raise up and down once in every 90 days of time for carrying out maintenance as per the scope of work. Any failure to do so in the prescribed time period of 90 days, penalty of Rs. 1000.00 per high mast per day and part thereof will be levied. The quantum of penalty will double after every eight day.

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4.11 Time line for find of cable faults

The maximum time allowed to finding fault and fixing the same is 48 hours for LT cable and 24 hours for HT cables failing which Rs. 500.00 per fault per hour and part thereof will be levied.(fault finding machine, associated material for cable jointing, tools & tackles & manpower is in the scope of contractor)

4.12 Non-functioning of Diesel Generator Set

In the event of any requirement, if DG set is found to be non-functioning, it will be considered as poor maintenance of the contractor and penalty of Rs. 1000.00 per hour and part thereof will be levied till the DG set starts functioning. The DG Set should function in auto mode.

4.13 Taking shutdown without work permit

It is found that the contractor has taken up the specific work as envisaged in the Work permit form and for the purpose of shutdown as mentioned in clause no. 9 (a) of Section V without obtaining the permission in the Work Permit Format given at Section-XI, a penalty of Rs. 10,000.00 per such incident will be levied. This lapse on the part of the contractor will be specifically reflected in the completion certificate.

4.14 Not Taking Line Clearance

While carrying out maintenance work at 11 KV sub stations and down stream, Line clearance as per clause no, 9 (b) is invariably required to be obtained from the concerned official not below the rank of Jr. Engineer format given in Section-XII failing which a penalty of Rs. 10,000.00 per such incident will be levied. This lapse on the part of the contractor will be specifically reflected in the completion certificate.

4.15 Non Maintenance of 11KV Sub-Stations.

If any Substation inside cargo jetty area from berth no 0 to 10 & from 13 to 16 berth is not taken under maintenance during the particular month mention in the date mention in the schedule penalty of Rs. 5000/- per substation will be lived if same is continued for next month double the amount will be imposed. While submitting the maintenance schedule all the documents proof should be submitted such as informal letter submitted to DPA supervisor requesting for power shut down, LC register, Work permit all counter signed by DPA Supervisor.

4.16 No Proper House Keeping

If any Substation found in filthy condition or not cleaned properly or any unwanted material lying in the sub-station, then penalty of 500/- will be imposed per day per substation.

4.17 Maintating Staff Duty Roaster.

Contractor should submit the duty roaster 1 week prior duly signed by the Engineer-in-engineer and same to be updated in group Whatsapp and notice board both in cargo jetty substation and 13 berth substation and accordingly the staff should follow the duty roaster and accordingly report on work place, if any person coming in wrong shift same will be marked absent and penlty will be levied as per CI no. 4.2 (short fall of staff).

Maximum penalty will be 100% of the contract value.

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5. **Employer's Obligation:**

(The Clause No. 30 (I) to (iv) of Section-II is replaced as under)

- (i) Two quarters will be allotted DPA at Kandla Colony on chargeable bases as per prevailing license fee, water charges, sanitation charges and electricity charges as per DPA Norms during the tenure of contract subject to availability and the same shall be handed over by contractor on completion of contract to DPA, failing which standard rent as per prevailing DPA norms will be deducted & stern action will be initiated.
- (ii) Subject to availability and on chargeable basis, for room for office purpose and for keeping tools, tackles, consumables etc. will be allotted and its electricity bill is also to be borne by contractor as per DPA Norms.
- (iii) Providing transformer oil to the contractor free of cost for oil filtration of transformers.

6. **Third Party Inspection:**

(The Clause No. 46 of Section-II is replaced as under)

DPA shall appoint the TPIA for monitoring the AMC work, if any observations/queries are made by Third Party Inspection Agency; the same shall be complied by Contractor before the next schedule visit. The TPIA / DPA Engineer-in-charge will check and certify the same. Payment for subsequent month may withhold if any quarries raised by TPIA are not complied by AMC Contractor (under the scope of AMC works). The charges incurred for Third Party Inspection Agency will be borne by DPA.

7. **Tools & Tackles:**

(The Clause No. 52 of Section-II is replaced as under)

All the tools and tackles as per **Clause no 32** of Section V, will have to be arranged by the contractor at his own cost for executing the work. 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.

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

(The Clause No. 47 of Section-II is replaced as under)

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.

9. **Integrity Pact:**

The Integrity Pact duly signed by authorized person(s) with witness to be submitted by the bidders along with the tender documents as per the format provided in Section IV.

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".

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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.

The procedure of signing of Integrity Pact Agreement by both the parties (Employer and Potential bidders) shall be completed online. However, in case of any technical glitch due to which if any potential bidder is unable to upload the IP Agreement, then he / she shall submit the Hard Copy of the duly filled, signed IP Agreement to the Department concerned of DPA within a period of seven days and prior to opening of the Technical Bid, failing which Bid of potential Bidder shall be treated as disqualified.

10. The rates shall be inclusive of all taxes duties payable by them (except GST). Income tax at prevailing rates and surcharge as applicable thereon shall be deducted at source by DEENDAYAL PORT AUTHORITY in accordance with Income Tax act in accordance with instruction issued by TAX Authorities on this behalf from time to time for this TDS will be given. The deduction of TDS @2% under GST act shall be made.

The TDS under GST Act is required to be deducted @2% (1% CGST and 1%SGST or 2% IGST) from payment / credit given to contractors / professionals and others for the work order /contracts exceeding Rs.2,50,000.00/-

Contractor / Service provider / Supplier etc. has to ensure timely and proper filling of GSTRI so that Deendayal Port Authority 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.

11 **Variation**

(The Clause No. 12 of Section-II is replaced as under)

In case of any management decision to give all or any of berth no. 13 to 16 to private operator, the connected assets which are under maintenance, will be removed from the scope of work for which the contractor cannot claim for any kind of compensation from DPA. DPA will allow suitable reduction in the manpower engaged by the contractor for berth no 13 to 16.

Berth-wise proportionate deduction will be done by DPA in AMC rate.

The decision of DPA in reduction of manpower and in monthly AMC rate will be final and binding on the contractor.

Where the quantity supplied/miscellaneous work by the contractor is exhausted during the currency of the contract and if any requirement arises prior to completion of the contract, variation in Quantities of Part "B and C" of BOQ shall be considered by DPA.

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

**Signature & Seal of
Contractor**

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION IV

FORMS OF BID

Part – I

To be submitted by Bidders with their Bids

NOS. OF FOMAT	NAME OF FORMS/FORMAT
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.	Specimen EMD (Bank Guarantee Format)
7.	Bid security declaration form (For MSEs)

Part – II

To be used by successful Bidder

NOS. OF FORMAT	NAME OF FORMS/FORMAT
8.	Letter of Award
9.	Agreement form
10.	Specimen bank guarantee of Performance Guarantee / Security Deposit
11.	Letter of authority from bank for all BGs
12.	Format of Extensions (Part – I)
13.	Format of Extension (Part-II)
14.	Certificate to be issued by Third Party Agency on their Letter Head
15.	Certificate to be issued by Manufacturer on their letter head

Form -1

SPECIMEN OF APPLICATION

(To be executed on bidder's letter head)

To

The Superintendent Engineer (E)

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/WK/2827)**

(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.

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(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)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form -2

Specimen format for Pre-qualification of bidders

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) i.e. last three financial years ending 31st march of the previous year	2020-21	
	2021-22	
	2022-23	

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 23**.

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.	2017-18		
	2018-19		
	2019-20		
	2020-21		
	2021-22		
	2022-23		
	2023-24		

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:

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

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.

1. 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

2. 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)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form-3

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 n-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) _____

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form-4

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:

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form-5

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.

Sr. No.	Page No. of Bid Document	Clause No.of Bid Document	Subject Deviation

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]

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form -6

Specimen EMD (Bank Guarantee Format)

[The Bank shall fill in this Bank Guarantee Form in association with the instructions indicated. To be executed on Rs. 300/- non Judicial Stamp Paper]

(Bank's name and address of Issuing Branch or Office)

Beneficiary's Bank details area as under

Account No. 10316591671

IFSC Code : SBIN0060239

Beneficiary: (Name and Address of Employer/Board) The Board of Deendayal Port Authority

Date:

Tender Guarantee No.:

We have been informed that [name of the Tenderer] (hereinafter called "the Tenderer") has submitted to you its Tender dated (hereinafter called "the Tenderer") for the execution of [name of contract] under Invitation for Tenders No.[Number]. Furthermore, we understand that, according to your conditions, Tenders must be supported by an EMD.

At the request of the Tenderer, we [name of Bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [amount in figures] ([amount in words]) upon receipt by us your first demand in writing accompanied by a written statement stating that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

(a) Has withdrawn its Tender during the period of tender validity specified by the Tenderer in the Form of Tender; or

(b) Having been notified of the acceptance of its Tender by the Employer/Board during the period of Tender validity, (i) fails or refuses to execute the Form of Agreement, if required, or (ii) fails or refuses to furnish the performance guarantee, in accordance with the Instructions to Tenderers.

This guarantee will expire unless otherwise extended or informed by the Employer/ Board:

(a) If the Tenderer is the successful Tenderer, upon our receipt of copies of the contract signed by the Tenderer and the performance guarantee issued to you upon the instruction of the Tenderer; or

(b) If the Tenderer is not the successful Tenderer, upon the earlier of

(i) Our receipt of a copy of your notification to the Tenderer of the name of the successful Tenderer; or

(ii) Twenty-eight days after the expiration of the Tenderer's tender or any extended period thereof;

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

[Signature(s)]

[Authorization letter from the issuing bank that the signatory of this BG is authorized to do so should also be enclosed]

(Applicable for MSME's)

Form-7

FORMAT OF BID SECURITY DECLARATION FROM BIDDERS
(On Bidders Letter head)

Bid Security Declaration Form

Date: _____ Tender No. _____

To (insert complete name and address of the Employer/ Purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of **three** year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form-8

LETTER OF AWARD FORMAT

No: _____

Date: _____

To _____

(Name and Address of the Contractor)

Sub: Tender No. _____ (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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form-9

SPECIMEN CONTRACT AGREEMENT

(To be executed on Rs.300-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 Port Authorities Act, 2021 having 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 the Performance security deposit @ 5% of contract price amounting to Rs. _____

_____. In following manner for the due fulfillment of all the conditions of the contract.

Rs. _ paid in form of BG/FDR/Digital Transfer (to be submitted within 21 daysof issue of LOI)

2) Balance amount of Rs. ___ to be

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

recovered from the work bills.

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 Superintendent 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) BG/FDR/Digital Transfer for security deposit.

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

1. Name & Address_____Signature of Contractor

Seal

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 Deendayal Port Authority affixed in the presence of:

1._____

Secretary

2._____

Deendayal Port Authority

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Form-10

SPECIMEN BANK GUARANTEE TOWARDS PERFORMANCE

GUARANTEE/SECURITY DEPOSIT

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

To,

The Board of 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, 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 Lodgement of Government Promissory Loan Notes for the due fulfilment 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

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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 forceable 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) 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)."

(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

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Form-11

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 favouring yourselves, issued on account of M/s. _____ validity for expiry up to 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 Office

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Form-12

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) 1st extension vide EE's No. Dated Month Days
 - (b) 2nd extension vide EE's No. Dated Month Days
 - (c) 3rd extension vide EE's No. Dated Month Days
 - (d) 4th 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.

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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

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Form-13

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 fromContractor for the work ofin 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 Superintendent Engineer)

1. Date of receipt in the Divisional Office.
 2. Superintendent Engineer's 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

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and justification for extension recommended.

3. Superintendent Engineer's recommendations:

(The present progress of the work should be stated and whether the work is likely to be completed by the date up to 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 Superintendent Engineer

Date

Dy. HOD/SE's recommendations

Signature of Dy. HOD

Date

HOD's recommendations/approval.

Signature of Chief Mechanical Engineer

Date

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Form-14

(Applicable in case of Procurement of Equipment)

**(CERTIFICATE TO BE ISSUED BY THIRD PARTY AGENCY ON THEIR LETTER
HEAD)**

To,

M/s. Deendayal Port Authority,

Kandla (Kutch)

Gujarat, INDIA.

This is to certify that the (name of equipment) designed, manufactured and supplied to Deendayal Port Authority are conforming with the Quality Assurance and Standards as per proven design and Model No. / Drawings submitted by M/s _____ in the Tender No. _____ of Deendayal Port Authority.

Signature & Seal of Authorized

Representative of Classification Society.

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Form-15

(Applicable in case of Procurement of Equipment)

(CERTIFICATE ISSUED BY MANUFACTURER ON THEIR LETTER HEAD)

To,

M/s. Deendayal Port Authority,

Kandla (Kutch)

Gujarat, INDIA.

This is to certify that the proven design submitted with Bid conforms with all the standards and generic specifications of (name of equipment) given at Page No._of the Tender No. (insert tender no.) of Deendayal Port Authority.

Signature & Seal of Authorized

Representative of the Manufacture

SECTION-V

Scope of Work & Technical Specification.

1. This Maintenance Contract shall be carried out on the basis of 24 X 7 at Inside Cargo jetty area from north Gate to Berth no 10 & from Berth no 13 to Berth no 16 including backup area.
 - Maintenance Contract includes Daily, Periodical, Preventive and Breakdown Maintenance,
 - Cable Fault finding both for H.T/ L.T cable which means fault finding, excavating the pin point fault location, jointing the cable by using Heat shrink cable jointing kit or M-Seal kit the complete work includes material, tools & tackles & man power for the cable to restore power within the stipulated time.
 - Attending Operation, breakdowns, routine testing and cleaning of electrical equipment's at 11KV Substations located at different location mentioned in Annexure-
 - Contractor has to obtain prior approval of maintenance schedule for equipment installed at 11KV substation & Lighting tower also should submit the pre-monsoon maintenance schedule for approval before commencement of monsoon.
 - Maintenance & trouble shooting of High mast lighting, mini mast, Lattice tower lighting, Pathway Lighting, Street Lights & its accessories including Non Residential Buildings (Gate office/ shed master room/ toilet block /traffic offices /Fire office etc.) situated inside cargo jetty from north gate to Berth no. 10 & at Berth no 13 to 16 .
 - The tentative details of various equipment's installed in each 11KV Substations, non-residential building & detail of high mast & lattice tower are given in Annexure – I, II, III & Annexure I(a) & I(b)
2. The Maintenance Contract will be entered initially for two years for Part 1 & 2 of A, B & C of the Schedule, however the same is likely to be extended for further period of One year or up to the finalization of new AMC contract on the same rates and terms and conditions of tender by mutual consent and approval of DPA.
3. Area of work: Inside Cargo jetty from North Gate to Berth no 10 & from Berth no 13 to Berth no 16 including entire backup area.
4. Maintenance of all electrical equipment like sub-station HT & LT panel boards, transformers, HT / LT cables, pump houses power supply system, power supply to all offices, non-residential buildings, internal wiring & its accessories and record maintain of earthing also is covered under scope of this maintenance contract.
5. **MAINTENANCE SPARES**
The items which cover only supply items in Schedule "B" shall be supplied by the contractor as per the following schedule for the first year of AMC.
 - (i) 50% of quantity of each of the individual item from Schedule "B" of BOQ (**Section VI**) of Electrical spares (**part B & B-1**) to be supplied **in 60 days from the issue of work order** with written intimation of Engineer-in-charge except for battery i.e Item no 35 Part B-1 should be supplied as required after approval of Engineer-in-Charge.
 - (ii) Remaining Quantity of material of the Supply Items to be supplied between 180 days and 210 **days from the date of issue of work order** with written intimation of Engineer-in-charge.
 - (iii) However, whenever the quantity of **Electrical spares (Part B& B-1) supplied & Miscellaneous works (Part C)** by Contractor is exhausted within 2 year of AMC period and if any requirement arises prior to completion of the contract variation in Quantities of Schedule of **Electrical spares (Part B & B-1) supplied & Miscellaneous works (Part C)** shall be considered by DPA. The overall as well as individual variations shall be $\pm 30\%$ in quantity for which the rate quoted by the bidder and accepted by the employer

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- shall be applicable.
- (iv) The miscellaneous works as mentioned in Schedule "C" will be informed as per requirement and availability at site accordingly the contractor shall deploy adequate manpower to meet target given by DPA during execution of work. AMC staff should not be involved for the work mentioned in Schedule "C" also if the work is not carried out within the stipulated period the work will be carried out by outside agencies and the amount will be deducted from the RA Bill
6. The spares mentioned in Schedule "B" supplied by the contractor will be maintained by DPA for smooth Operation & Maintenance. But if any spares left out from Schedule "B" and is not available in DPA stores and required urgently for the functioning of the equipment (un-interrupted power supply) the contractor should arrange the proprietary spare immediately for smooth maintenance the reimbursed by DPA on actual basis to the contractor on production of relevant original documents. The rate includes the charges of packing, forwarding and transportation up to site at Kandla. (The supply order regarding proprietary material shall be placed to the Contractor after approval of competent authority) (Format of draft Supply order is incorporated at Pg no ____).
7. During the execution of Maintenance Contract, if any kind of repairs is considered to be of the major nature like repairing/rewinding of transformer, replacement of potential/current transformer, Major repair of RMU, Including Gas filling, Compact Substation etc. and if same is absolutely necessary for healthy power supply system, the cost of such repairs shall be reimbursed by Deendayal Port Authority on actual basis to the contractor on production of relevant original documents. The rate includes the charges of dismantling, packing, forwarding and transportation up to manufacturer's place and back to site at Kandla and re-erection of same material. . (The Work order regarding such major repairs shall be placed to the Contractor after approval of competent authority). However, the loading, unloading and transportation will be responsibility of AMC contractor during the AMC period.
8. The contractor shall keep separate tools and tackles, testing instruments for i) From Zero panel to 10th berth & 2) Berth no 13 to 16 at site during maintenance contract period.
9. a) The contractor shall inform well in advance in writing for taking power shut down as and when required for preventive / periodical maintenance in 11 kV Substation in order to intimate concerned port officials to enable them to make necessary arrangements during power shutdown. The above permission letter record should be maintained by the contractor in proper manner. Before executing any work, work Permit is to filled up by the contractor Supervisor / in-charge signed by DPA supervisor, sample of work permit is placed at section XI.
- b) At the time of maintenance work carried out on any 11KV line / substation which are feed from 66KV Substation line clearance is required to be obtained from the concerned official of DPA Supervisor / Junior Engg/ Asst. foreman etc. A line clearance register is to be maintained in the format given at XII.
- c) Contractor's Site in-charge has to submit the date & day of monthly maintenance schedule to be carried out of all the substation at the beginning of each month from Zero panel to 10th berth and from 13th to 16th berth. At the end of each month the Site in-charge should submit the maintenance report of each substation along with the LC register having both LC taken & return back dully signed by 66KV operator & DPA Supervisor, daily maintenance & cleaning work should be carried out regularly.
10. The Contractor shall attend day-to-day maintenance work like housekeeping, cleaning of Substation, HT & LT panels, Transformers & Compact substation etc.
11. Contractor has to maintain all the D.G Set situated inside Cargo jetty area 0 to 10 berth & from Berth no 13 to Berth no 16 as mentioned in Annexure -III with its connected Electrical system (i.e. AMF PANEL) if provided with the system, by properly cleaning and maintaining the water

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level in battery & twice a day running of D.G set for at least 1/2hr & provide backup power under load shedding immediately. Register should be maintained giving the running hrs & status of the DG set Working in Auto / Manual mode & regular maintenance of the DG set should be carried out, also diesel top up should be done as and when required with entry in register & entry of requisition slip no in the register all the register should be updated with signature & name of the foreman/ In-charge with entry of Diesel top-up in each Gen-set with signature of DPA in-charge (Diesel, filer, coolant & Engine oil will be supplied by DPA)

12. The AMC also includes filtration of transformer oil within first 6 months from date of award of contract and second time after one year from date of first one (18 months from date of issue of work order)(Transformer Oil will be supplied by Deendayal Port Authority).
13. Maintenance of the complete Industrial lighting system in various cargo handling area in DPA including repairing, rectifying, re-fixing and commissioning of High Mast light fittings, lattice type tower light fittings, Godown & street light fittings, flood light fittings with the material & manpower mentioned in Schedule A, B & C. Maintenance register separately for the HM, Lattice tower, Street light & Godown lighting area-wise to be maintained by the contractor mentioning the material repaired / replaced and issued from the store with signature of store-in-charge. While replacing the material such as MCCB/ Contractor/ timer /MCB the Site-in-charge should give in writing and deposit the old material to store keeper. However, if any minor repair such as change of oil seal etc. is in the scope of contractor in case of any major repair required and same not mentioned in the schedule it should be done through clause no 6 & 7.
14. Each High Mast raising up & lowering down operation for lantern has to be carried out once in two month including complete servicing and overhauling of high mast accessories with application of proper grease & oil on wire ropes. Also filling of gear oil in gear of motor and accordingly record should be maintained while undergoing this operation all the Luminary glass should be properly cleaned with sweet water. AMC site-in-charge should maintain separate register for the high mast and Lattice tower maintenance mentioning the complete detail (history) of the high mast & material available & Condition of the LT/ HM with that total no of lights in working condition. In short history book should be maintained for both HM & LT from the day of taking over the site by the AMC contractor.
15. Contractor should submit monthly bill within one week after completion one month AMC, along with the bill below mentioned documents should be submitted by Contractor all the connected register should be submitted to site office
 - a) Maintenance schedule daily/weekly & monthly of all 11 KV Substation (both part) along with approved Schedule date chart of each substation, power shut down register, LC register, Work Permit. Substation wise equipment wise Register. Register for earthing resistance value of each substation updated to be submitted.
 - b) Lighting details such as ON & OFF Register, Tower wise / Area wise HM /LM register (history book), Schedule date and maintenance report along with work permit duly signed by DPA supervisor,
 - c) 11KV Staff & lighting Staff attendance sheet for 0to 10th berth & 13 to 16th berth, approved Duty Roaster of the AMC staff, Daily Progressive Register having signature of the staff, Xerox copy of gate pass of AMC Staff, NOC of staff engaged in AMC work, up dated profile of the staff with left out & new Staff duly signed by Site in charge of Contractor.
 - d) Register maintained for DG set duly signed by Site-in-charge of Contractor and DPA supervisor.
 - e) Site order book, tools & tackle register & updated site consumable material register with Requisition book.
16. Fixing, connection and commissioning of SFUs/switches/ MCB's/ MCCB's, Time switches etc. of various capacities as directed (Required material will be supplied by DPA.)


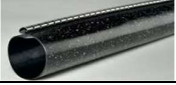
Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

17. Switching 'ON' and 'OFF' the lighting system in all locations during the 'Sunset' and 'Sun rises' as per instructions /directions, and adjustment of Auto-timer settings of High mast/Lattice/Min mast tower as per the instruction/direction of Engineer-in-charge.
18. This AMC include repairing of High Mast Accessories like repairing of damaged lantern carriage, repair/replacement of lighting fixtures of High Mast, replacement of safety and suspension wire rope, replacement of hoist trailing cable, repairing/overhauling of double drum winch, power tool, Gear Box complete, Replacement/Fixing of luminaries with wiring and control gear box etc (Material required will be supplied by DPA).
19. The Repairing / welding work required in the AMC the work has to be done by the contractor for which a welder and welding rod /tools required for welding is to be provided by Contractor.
20. This AMC also includes laying and testing of varies sizes of cable as and when required, LT/HT cables shall be lay in through excavated hard/soft soil, in existing RCC Cable trench, on wall through saddles & clamps, through GI Class-B pipe on wall or road. (The cables required for laying will be supplied by DPA).
21. Contractor shall get approval of maintenance schedule including pre-monsoon maintenance for equipment's installed at various Substations & Load point / feeder panel of all towers (H.M& L.T) within one week of commencement of maintenance contract from Engineer-in-Charge during the submission of the staff profile.
22. Consumables are to be provided by Contractor during period of Maintenance Contract at his own cost to carry out routine maintenance work which has to be maintained in the register & the same is to be Deposit in DPA store and material will be issued on production of requisition by Contractor. The following minimum quantity of consumables mentioned below are to be maintained within 7 days of commencement of every month (monthly billing) during currency of Maintenance Contract and shall be verified by Engineer-in-Charge, if any shortage found penalty will be levied for per week per item if shortfall of same item is repeated next month than double the rate will be charged per item per week till the consumable not updated in DPA store. Consumable for Part-A-1&A-2 should be handed over to store and maintained in different register. Part-A-1 is the consumable for zero to 10th berth & Part -A-2 is the consumable for 13 to 16th Berth

CONSUMABLE TO BE MAINTAINED FOR PART -1 for North Gate to Berth no 10.

Sr No	Description	Minimum Qty
1	Gear oil, each drum of 25 Kg.	2no (50KG)
2	Wire rope grease / Dresser each drum of 25Kg.	2 no(50KG)
3	Petroleum Jelly	1Kg
4	"U" clamp and M.S Wire grip suitable for 8 mm & 10 mm	200 no's for 8mm 200 no's for 10mm
5	Sprocket of 30 mt HM	15 no's
6	Chain link	25 mt length(10 no's)
7	Silica Gel	5 Kg
8	Araldite & M-Seal	250 gms. each
9	Insulation tape / H.T heat shrink Tape	50 Roll / 10 Roll
10	H.T Tape /AVL Tape	10 Roll each
11	Water proof flex adhesive sealant Tape	10 Roll
12	Space heater for Panels	20 no's
13	T-5 tube & Choke	100 each
14	40W Fluorescent tube & Choke	100 each
15	Indication lamps LED type / lamp holder	100 each
16	HC-80 (Anti Tracking Spray)	10 tin's

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17	Penetroil (Rust Remover Against WD-40)	10 tin's
18	Elepro 200 (Moisture Displacer)	10 tin's
19	Premium (On Line Contact Cleaner)	10 tin's
20	Aluminum Foil Tape (Cravity Sealing Tape) make 3M	5 No
21	Scotch 23 (High Voltage Tape) make 3M	10 no's
22	Scotch fill Putty (Insulation Putty) make 3M	5 No's
23	Foam Tape (Gasket Form Tape) make 3M	5 No's
24	IHKV HT & 1.1 KVLt Heat shrink Tubes. 	20 no's each for HT & LT
25	Cotton waste /Muslin cloth	100 Kg /50 Mtr.
26	Stainless steel and washer	6mm x 40 mm 50No's 8mm x 40mm 50No's 10 mm x 40mm 50 No's 12 mm x 40 mm 50 No
26(A)	M.s Nut bolts and washer	6mm x 40 mm 50No's 8mm x 40mm 50No's 10 mm x 40mm 50 No's 12 mm x 40 mm 50 No's
27	Emery paper & Scotch Brite	10 Nos each
28	HT Heat shrink wraparound sleeves for cable repair and joint outer re-jacketing. 	i) Suitable for 150Sqmm 10no's. ii) Suitable for 300Sqmm 06 no's. iii) Suitable for 400Sqmm 04 no's
29	LT Heat shrink wraparound sleeves for cable repair and joint outer re-jacketing .	i) Suitable for 10-25 Sqmm 10 no's. ii) Suitable for 35-50 Sqmm 15 no's. iii) Suitable for 70- 95 Sqmm 10 no's iv) Suitable for 120- 185 Sqmm 5 no's iv) Suitable for 220- 300 Sqmm 5 no's
30	DG Set's Air filter	10 no's
31	DG Sets' Fuel Filter	10 no's
32	DG Set's Coolant	3 Ltr.
33	DG Sets Hose Pipe	As per requirement
34	AMF Panel Contactors suitable for 30 KVA DG Sets.	04 Nos.
35	AMF Panel Contactors suitable for 125 KVA DG Sets.	08 Nos.
36	Lugs & ferrule for LT cable size up to 150 sq.mm	100 Nos.
37	Lugs & ferrule for HT cable size up to 150 sq.mm	50 Nos.
38	Lugs & ferrule for HT cable size from 150 sq.mm up to 300Sqmm	50 Nos.
39	Spare L&T make contractor coil CAT NO CS90718 (specify voltage works CAT no CS90741 240V, 50Hz	50 nos
40	Stanvac Z730 Steelweld, 284GMS, Tin	5 tin
41	Stanvac Z814 One Minute Epoxy Putty, Packaging Type: Syringe	5 Syringe
42	Enamel paint (20Ltr) Tin Grey	1Tin
43	Enamel paint (20Ltr) Tin Black	1 Tin
44	Red oxide / Turpentine	1tin
45	Turpentine (20Liter) Tin	1 tin

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46	Brush	10no's
Note : If any other consumables are felt necessary for execution of the work, on the written instructions of EIC, the same shall be arranged by the contractor at their cost.		

CONSUMABLE TO BE MAINTAINED FOR PART -2 for 13 to 16th Berth.

Sr No	Description	Minimum Qty
1	Gear oil, each drum of 25 Kg.	1no
2	Wire rope grease / Dresser each drum of 25Kg.	1 no
3	Petroleum Jelly	1/2Kg
4	"U" clamp and Stainless steel nut bolt	100 no's for 8mm 100 no's for 10mm
5	Sprocket of 30 mt HM	3 no's
6	Chain link	05 mt length (10 no's)
7	Silica Gel	1 Kg
8	Araldite & M-Seal	100 gms. each
9	Insulation tape / H.T heat shrink Tape	30 Roll / 10 Roll
10	H.T Tape /AVL Tape	05 Roll each
11	Water proof flex adhesive sealant Tape	05 Roll
12	Space heater for Panels	05 no's
13	T-5 tube & Choke	25 each
14	Fluorescent tube & Choke	25 each
15	Indication lamps LED type / lamp holder	15 each
16	HC-80 (Anti Tracking Spray)	05 tin's
17	Penetroil (Rust Remover Against WD-40)	02 tin's
18	Elepro 200 (Moisture Displacer)	03 tin's
19	Premium (On Line Contact Cleaner)	15 tin's
20	Aluminum Foil Tape (Cravity Sealing Tape) make 3M	2 No
21	Scotch 23 (High Voltage Tape) make 3M	05 no's
22	Scotchfill Putty (Insulation Putty) make 3M	3 No's
23	Foam Tape (Gasket Form Tape) make 3M	3No's
24	HT & LT Heat shrink sleeves	05 Sets each for HT & LT
25	Cotton waste /Muslin cloth	100 Kg /50 Mtr.
26	Stainless steel / copper Nut bolts, and washer	25 no's (As per site requirement)
27	Emery paper & Scotch Brite	10 Nos each
28	Fuse wire HT & LT	As per Site requirement
29	DG Set's Air filter	6 no's
30	DG Sets' Fuel Filter	6 no's
31	DG Set's Coolant	2 Ltr.
32	DG Sets Hose Pipe	As per requirement
33	AMF Panel Contactors suitable for 125 KVA DG Sets.	02 Nos.
34	AMF Panel Contactors suitable for 400 KVA DG Sets.	02 Nos.
35	Lugs & ferrule for LT cable size up to 150 sq.mm	100 Nos.
36	Lugs & ferrule for HT cable size up to 150 sq.mm	25 Nos.
37	Stanvac Z730 Steelweld, 284GMS, Tin	5 tin
38	Stanvac Z814 One Minute Epoxy Putty, Packaging Type: Syringe	5 Syringe
39	Spare L&T make contractor coil CAT NO CS90718	10 nos

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	(specify voltage works CAT no CS90741 240V, 50Hz)	
42	Enamel paint (20Ltr) Tin Grey	1Tin
43	Enamel paint (20Ltr) Tin Black	1 Tin
44	Red oxide (20Liter) Tin	1tin
45	Turpentine (20Liter) Tin	1 tin
Note : If any other consumables are felt necessary for execution of the work, on the written instructions of EIC, the same shall be arranged by the contractor at their cost.		

23. Statutory Tools & Tackles are to be arranged by Contractor during period of Maintenance Contract and shall be provided by Contractor to his workmen at his own cost. All the measuring instrument should be calibrated during supply and certificate of the same should be produced to EIC.
24. Deployment of Manpower: The following minimum manpower shall be deployed by the Contractor to carryout effective maintenance as per the instructions of the Engineer-in-charge

Staff requirement for Part -1 of "A"

S. No	Designation	General shift (10.00 hrs- 18.00 hrs)	1 st Shift (08.00hrs – 16.00 hrs)	2 nd Shift (16.00hrs – 24.00 hrs)	3 rd Shift (24.00hrs – 08.00 hrs)
1	Site In-charge	1 Nos.	-----	-----	-----
2	Shift Supervisor	2 Nos.	1 Nos.	1 Nos.	1 Nos.
3	Electrician	6 Nos.	3 Nos.	3 Nos.	3 Nos.
4	Helpers to Artisans	6 Nos.	3 Nos.	3Nos.	3Nos.
5	Sweepers	2 Nos.	-----	-----	-----
6	Office clerk	2 Nos.			
	Total	19 no's	7 no's	7 no's	7 no's
	Reliever: - 1 Shift Supervisor, 2 Electrician & 2 Helper to Artisan				
	Total = 45 nos.				

Staff requirement for Part -2 of "A"

S. No	Designation	General shift (10.00 hrs- 18.00 hrs)	1 st Shift (08.00hrs – 16.00 hrs)	2 nd Shift (16.00hrs – 24.00 hrs)	3 rd Shift (24.00hrs – 08.00 hrs)
1	Site in-charge	1 Nos.	-----	-----	-----
2	Shift Supervisor	1 Nos.	1 Nos.	1 Nos.	1 Nos.
3	Electrician	2 Nos.	1 Nos.	1 Nos.	1 Nos.
4	Helpers to Artisans	5 Nos.	2 Nos.	2 Nos.	2 Nos.
5	Sweepers	1 Nos.	-----	-----	-----
	Total	10 no's	4 no's	4 no's	4 no's
	Reliever: - 1 Shift Supervisor, 1 Electrician & 2 Helper to Artisan				
	Total = 26 nos.				

25. Staff mentioned in the above chart shall be posted as per their location separate attendance register & DPR should be maintained as per the location and separate Daily progress report book in which signature of individual person should be there & duly verified by DPA in-charge stationed at Cargo jetty S/s. General staff should be stationed at Cargo jetty Substation for Part - 1 & for Part -2 staff should be stationed at 13th / 16th Berth Substation as per the situation posting of the staff should be carried out from Cargo jetty Substation.
26. The above posting of the supervisor staff can be changed as per the situation arise and as per the requirement of DPA site in-charge i.e. JE / AE. The posting done to the staff should be informed through WhatsApp to concern officer.

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27. The above mentioned staff should have the minimum qualifications mentioned as under:

Sr. No.	Designation	Qualification
1	Site Engineer:	Degree in Electrical Engineering and at least 3 years' experience in operation & maintenance of 11/0.433 KV Substations "OR" Diploma with Electrical Engineering having 5 years' experience of operation & maintenance of 11/0.433 KV Substations
2	Supervisor	Diploma in Electrical Engineering with 3 years' experience on operation & maintenance of 11/0.433 KV Substations & having sound in 11 KV & LT U/g network with competency certificate issued by State Government.
3	Electrician/Wireman (Technician)	ITI Certification in Electrician Trade / Wireman trade with at least 5 year experience on HT/LT Electrical Operation & maintenance of 11/0.433 KV Substations
4	Helper to Artisan	Worked as Helper, Technician fresh ITI holder in Electrician/Wireman field "OR" At least 3-year experience of operation & maintenance of 11/0.433KV Substations & knowledge of wiring of residential & non-residential building
5	Office clerk	12th pass Having knowledge of computer & office work.

- (i) **Site Engineer:** The Site Engineer shall be overall in charge on behalf of Contractor at the site of work specified in the tender i.e. Inside Cargo jetty.
- The Duty of the site in-charge is to collect the report of the activities happen in 24hrs from individual location and new work / maintenance to be carried out at site and submitted a daily report location wise to DPA in-charge in duplicate with attendance statement of individual Location.
 - The Site Engineer shall inspect that all the received complaints from internal and external offices, users etc. & Recording of same in the respective complaint register, allocation of complaint no., phone no. of consumer/user etc. is been carried out properly by the supervisor staff and monitor the complaint attended at individual location.
 - The Site Engineer shall instruct his supervisor staff to depute the staff to attend the respective complaints depending on the priority. Priority may be given as specified i.e. 11KV Incoming & outgoing feeders, 11KV HT service connections if any, water towers, Lighting as directed by Engineer-in-charge.
 - Also, operation of LT and HT indoor sub-station switchgear and recording and issue of Line clearance & normalization of HT / LT Electrical shutdowns works & breakdowns works as per DPA procedures. The recording of the vehicles running and monitoring shall be controlled by Site Engineer.
 - Site Engineer being overall in charge shall reach at site during any major break down even in late hours by calling the Site vehicle and simultaneously inform the above situation to Engineer-in charge and remain present in site up till the restoration of power.
- (ii) **Site Supervisor:** The Site Foreman shall be in charge during Shift on behalf of Contractor at the site of work specified in the Tender and fully responsible to attend the breakdowns/faults

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during his shift and reporting to his Site Engineer.

- Attending of 11KV HT/LT / UG cable complaints including service connections as informed by Site Engineer along with available staff.
- Feedback collection after attending of completes from the customer/ user.
- Reporting of works attended to Site Engineer.
- Recording of details of works executed, rectifications / repairs.
- Efficiently utilizing of staff providing for repair / ratification & solving of complaints recorded / reported from time to time.
- Safety of staff provided for work, proper usage of PPE.
- Communicating with the representative of DPA from time to time for further guidance / instructions from Engineer-in-Charge or superior officials.
- Issue of Line clearance & normalization of HT / LT Electrical shutdowns works & breakdowns works as per DPA procedures.
- Troubleshooting and breakdown Maintenance of electrical equipment's.
- Carrying out of jobs like giving connections for Temporary power supply, lighting / welding machines / fans / utility / Etc.
- Material shifting within site including to / from sub-stores.
- Record keeping of operation & Maintenance activities of shifts in Registers and on Computers. Daily log book should be updated of individual substation from cargo jetty
- Coordinating with the GETCO staff for attending complaints regarding LT / HT service connections will be entrusted.
- No idle time will be entertained. In case non-receipt of any complaint the pending complaints received by the officer-in-charge / noticed during the preventive maintenance will be entrusted.
- Operate all outdoor & indoor switchgear and maintain trouble free power supply for all non- residential building specially Gate office.
- He has to maintain the tower lighting and pathway lighting of oil jetty. Street lighting from 13th Berth to zeera port by the respective area staff if any major break down in lighting same should be noted in the register and forward the information to Site in charge.
- Daily lighting report should be prepared by the night shift site supervisor showing the status of lighting area wise collecting the detail from Electrician / Wireman and submit the report to Shift in charge.

(iii) **Electrician:**

Work on poles, PSC poles, DP/Four Pole structures, HT & LT cables, sub-station equipment, lighting etc., as directed by the Site Engineer / Site Supervisor of Firm and shift engineer / in charge of DPA.

- He should have the knowledge of operating the 11/0.433KV substation equipment and maintain register properly in each Substation. Taking proper safety during switching on /off the H.T/L.T Switch Gear.
- All the safety equipment should be utilized and power break down time should be noted in the S/S register, Every hour current reading should be noted in the log book of the Substation posted by DPA shift-in-charge
- Attend the complaints related to High mast tower, Lattice tower, pathway lighting, street lighting also if required switching ON & OFF of the lights are to done by the electrician and accordingly submit the detail report area wise
- Attend the complaints related to pump house, gen sets, panels, HT /LT cables, control schemes etc.
- Work on pump houses, various starters, gen sets, LT / HT panel boards, lighting etc., as directed by Site Supervisor/Site Engineer (Contractor) and shift in charges (DPA).
- Trimming & cutting of tree branches falling on HT /LT overhead lines / cable trench line, panels etc.
- During any major work care should be taken to take line clearance from particular substation with his name and signature noted in the register with (Do NOT OPERATE) board fixed on the panel. Apart from above work he has to assist the electrician for the above mentioned work.

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- Electrician posted in respective area should maintain the log book of individual sub-station and note down the timings of power breakdown. He should note down in the log book the name of the person switching off the power with its signature and simultaneously during restoring period he should take the signature of the same person to avoid any accident. He should have full knowledge in operating the equipment installed in the substation any damage due to wrong operation then contractor will be held responsible & same repairs has to be carried by them at their own cost.

(iv) **Office Clerk**

Office clerk shall perform duty for maintaining the document, attendance register, other statutory register, staff profile register, documentation etc. Office clerk having good proficiency in Computer. Shall be posted in day shift only.

(v) **Helper to artisan** shall assist Electrician/wireman in their work and time to time work given by Site Supervisor/Site Engineer during shift such as excavation during cable fault etc. The Contractor should engage some of the helper expert in excavation in any type of Soil.

(vi) **Housekeeping Assistant:** - The House keeping Assistant: should daily sweep all the Substation periodically manner as instructed by EIC.

28. Responsibilities of Contractor:

- It is fully the responsibility of the contractor to deploy qualified Site Engineer, Site Foreman, Electricians and Wiremen on experience, relevant License/permits to handle electrical equipment's, etc., as applicable. The Contractor has to submit the Notarized Aadhaar Card/Election Card, Educational & Experience.
- Certificates of his deployed personnel along with Profile of Staff. In case of Helper to Artisans, the Notarized copy of Aadhaar Card/Election Card shall be submitted along with Profile of Staff. No person below 18 years should be deployed for Maintenance Contract. The deployed personnel of Contractor should be well conversant with Indian Standards, Indian Electricity Rule and acts as applicable and should have knowledge of electrical and Industrial safety practices.
- Contractor will ensure consistency of work and work force, correct trouble shooting, good workmanship, follow all safety procedures and will make all necessary efforts to maintain healthy environment and reliable services.
- If any of the staff member appointed by Contractor is found to be 'not competent', he has to be replaced by a right person within a stipulated time as instructed by Electrical Engineer- In-charge
- In no case, the contractor or his/her employees shall claim job / employment with DPA. No transport facility shall be provided for the contractor or his employees.
- It is purely contractor's responsibility to get his staff acquainted/trained with the site conditions, operation and maintenance procedure, equipment detail, safety devices, scope of work etc.,
- Contractor will be responsible for any act of theft, sabotage, misdeed, indiscipline, and negligence on the part of contractor or his employees. Penalty or legal action, as decided by EIC shall be imposed on the contractor.
- The contractor or his supervisor shall meet the EIC or his nominee every day to receive the details of issues / complaints to be attended and after attending to these complaints, a report on the same has to be submitted to the concerned Officer.
- The contractor shall maintain Cell phones (Android type) round the clock for with internet facility for video conference & communication 2 set for 11KV Staff & one set for Lighting Staff for controlling AMC staff of north to 10th berth at the cost and responsibility of the Contractor.
- The contractor shall maintain Cell phones round the clock for proper communication 2 set for 11KV maintenance staff with internet facility for video conference & communication 1 no for controlling AMC & two set for lighting staff at the cost and responsibility of the Contractor.
- The Contractor shall provide his office set up with table and at least five no's chairs, one cupboard and latest Computer (Core i-5) with Xerox cum printer all the documents submitted to DPA should not be hand written.

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- The contractor is responsible for restoring power in case of faults occurring in the above-mentioned areas. The contractor must ensure that their deployed personnel are equipped with all the necessary tools and resources required for prompt and effective troubleshooting and resolution of electrical issues. This includes having access to testing equipment, replacement parts, and any other tools deemed essential for restoring power.
29. DPA will not be responsible for death, accident or injury to the Contractor's employees engaged by him, which may arise in the course of their duty at our premises, nor shall we be responsible and be liable to pay damages or compensation to such persons or to third parties. The Contractor shall at all times indemnify and keep DPA indemnified against all claims which may be under the Workmen's Compensation Act, 1923, or any statutory modifications thereof or otherwise for or in respect of any damages or compensation payable in consequence of any accident or injury sustained by any workman or other person/ person at the Centre or premises, building, equipment's etc. is attributable to the Contractor or his workmen, such damages shall be made good by the Contractor or his workmen, such damages shall be made good by the Contractor.

30. WORKING DAYS AND HOURS:

The working days for the maintenance contract will be all days throughout the year. The working hours for day to day maintenance will be as follows:

- a). General Shift: 10:00 Hrs to 18:00 Hrs.
- b). 1st Shift 08:00 Hrs to 16:00hrs
- c). 2nd Shift 16:00 Hrs to 24:00 Hrs.
- d). 3rd Shift 24:00 Hrs to 08:00 Hrs.

Accordingly, Contractor shall prepare the Duty Roaster and same shall be submitted to the Engineer-in-charge and the staff should follow the duty roaster, no staff will be entertained to violate the roaster and will be marked absent.

Arrival & Departure of staff should be well-planned to up-keep the maintenance requirement. Punctuality should be maintained at site any person coming late will not be tolerated a grace period of 10 minutes will be accepted above 10 minutes period absent will be marked against the above candidate. Prior permission should be obtained by the Engineer-in -charge for coming late in written only in that condition he may be allowed to attend his duties. The staff should leave the site at end of each shift only after arrival of staff of next shift if any person leaving the site before time the person will be marked absent.

Model Roster for Service Engineer, Site Supervisor, Technicians, Helpers & Sweepers for both AMC of Part 1 & 2. To be submitted to Site in-charge every month along with Gate pass zerox. Copy of the staff.

	Mo	Tue	We	Th	Fri	Sa	Su	Mo	Tu	We	Th	Fri	Sat	Su	Mo	Tu
Shifting Staff for Operation & Maintenance of 11KV Substation & Lighting Inside Cargo Jetty																
Site Supervisor																
Site Supervisor (1)	W	1	1	1	1	1	1	W	3	3	3	3	3	3	W	2
Site Supervisor (2)	1	W	3	3	3	3	3	3	W	2	2	2	2	2	2	W
Site Supervisor (3)	3	3	W	2	2	2	2	2	2	W	1	1	1	1	1	1
Site Supervisor (R)	2	2	2	2	2	2	W	1	1	1	2	2	2	W	3	3
Electrician																
Electrician (1)	W	1	1	1	1	1	1	W	3	3	3	3	3	3	W	2
Electrician (2)	1	W	3	3	3	3	3	3	W	2	2	2	2	2	2	W
Electrician (3)	3	3	W	2	2	2	2	2	2	W	1	1	1	1	1	1
Electrician (1)	2	2	2	W	1	1	1	1	1	1	W	3	3	3	3	3
Electrician (2)	1	1	1	1	W	3	3	3	3	3	3	W	2	2	2	2
Electrician (3)	3	3	3	3	3	W	2	2	2	2	2	2	W	1	1	1
Electrician (R)	2	2	2	2	2	2	W	1	1	1	1	1	1	W	3	3
Electrician (1)	W	1	1	1	1	1	1	W	3	3	3	3	3	3	W	2
Electrician (2)	1	W	3	3	3	3	3	3	W	2	2	2	2	2	2	W
Electrician (3)	3	3	W	2	2	2	2	2	2	W	1	1	1	1	1	1

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Electrician (R)	2	2	2	2	2	2	W	1	1	1	2	2	2	W	3	3
Helper																
Helper (1)	W	1	1	1	1	1	1	W	3	3	3	3	3	3	W	2
Helper (2)	1	W	3	3	3	3	3	3	W	2	2	2	2	2	2	W
Helper (3)	3	3	W	2	2	2	2	2	2	W	1	1	1	1	1	1
Helper (1)	2	2	2	W	1	1	1	1	1	1	W	3	3	3	3	3
Helper (2)	1	1	1	1	W	3	3	3	3	3	3	W	2	2	2	2
Helper (3)	3	3	3	3	3	W	2	2	2	2	2	2	W	1	1	1
Helper (R)	2	2	2	2	2	2	W	1	1	1	1	1	1	W	3	3
Helper (1)	1	1	1	1	1	1	W	3	3	3	3	3	3	W	2	2
Helper (2)	W	3	3	3	3	3	3	W	2	2	2	2	2	2	W	W
Helper (3)	3	W	2	2	2	2	2	2	W	1	1	1	1	1	1	1
Helper (R)	2	2	2	2	2	W	1	1	1	2	2	2	W	3	3	3
GENERAL STAFF																
Site -In-Charge																
Site-In-Charge	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Clerk -1	G	G	G	G	G	G	W	G	G	G	G	G	G	G	W	G
Clerk-2	G	G	G	G	G	G	W	G	G	G	G	G	G	G	W	G
Site Supervisor																
Site Supervisor(G-1)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Site Supervisor(G-2)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician																
Electrician (G-1)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician (G-2)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician (G-3)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician (G-4)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician (G-5)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician (G-6)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Electrician I	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper																
Helper (G-1)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper (G-2)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper (G-3)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper (G-4)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper (G-5)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper (G-6)	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Helper I	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Sweeper																
Housekeeping-1	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2
Housekeeping-2	2	2	2	2	2	2	W	2	2	2	2	2	2	2	W	2

31. DOCUMENTATION

- a) Substation Equipment's parameters should be recorded in daily logbooks. Detailed inventory records like Consumables, materials movement, material consumption; materials disposed etc. also should be maintained. In all documents, for each work, contractor should get signature from Engineer In-charge (Electrical) or his nominees.

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b) Detailed inventory records like materials movement, material consumption, materials disposed etc. also should be maintained. In all documents, for each work, contractor should get signature from Engineer In-charge (Electrical) or his nominees.

- Following Register is to be strictly maintained by AMC Contractor during AMC period as the Contract Labour (Regulation & Abolition) Central Rules, 1971
- Muster Roll Register Form No:-16.
- Register of Wages i.e. Form No:-17.
- Register of overtime i.e. Form No: - 23.
- Register of advance pay i.e. Form No:-22.
- Register of accident, major accident & dangerous occurrence i.e. Form No:-29
- Register of Workman employed by Contractor i.e. Form No:-13.
- A. Profile of staff personnel for posted staff during AMC period.
- B. Consumable register & Store Requisition.
- C. Tools and Plants.
- D. Entry Permit of Staff & Vehicle (Gate Pass).
- E. Maintenance Register of High Mast
- F. Earthing value register to be maintained every month as per EIC.
- G. Duty Roaster 3 copies
- H Power failure register
- I Maintenance & Diesel record register of DG set inside cargo jetty

All the documents prepared by the contractor will be the property of DPA. The contractor will not share the information contained in the above said log books registers with any outside person without written permission of EIC.

The contractor will hand over the logs and registers to DPA at the time of completion of contract period.

32. Tools & tackles

Following measuring instruments after the date of issuance of LOI should be available at site for Part-A-1 AMC;

Sr No	Description	Quantity of tools of PART-A-1	Quantity of tools of PART-A-2
1	Multi meters	2 No	1
2	Lux meter	2 no	1
3	5000V Megger (H.T MEGGER)	3 No	1
4	Earth resistance measurement instrument (0.1 Ohm LC) with kit	1 No	1
5	Phase sequence meter.	1 No	NA
6	Tong tester.	2 No	1
7	Underground Cable live detector	1 No	
8	Transformer oil testing kit.	Whenever required	

Apart from above instrument contractor shall make available the Testing equipment for performing the Half yearly/ Yearly Maintenance schedule for RMU, VCB, Transformers , CT, PT, Meters as and when required.

Following tools after the date of issuance of LOI should always be available at site;

Sr. No	Description	Quantity of tools of PART-A-1	Quantity of tools of PART-A-2
1	Double end open spanner from size 6-7 to 30 – 32 size 9 (metric)	4 sets	2 sets
2	Double end ring spanner from size 6-7 to 30 – 32 size 9 (metric)	4 sets	2 sets
3	6-7 to 30 – 32 size (metric) set	4sets	2sets
4	Adjustable wrenches (12 inch)	2 sets	1sets
5	Hydraulic Crimping tool	2 sets	1 sets

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6	Allen keys set	2 sets	1 sets
7	Tubular spanner set	4 sets	2 sets
8	star screw driver set	4 sets	2 sets
9	Screw driver set	4 sets	2 sets
10	Hammers each (1lb & 2lb)	3 sets each	1 sets each
11	15000V grade Hand gloves.	8 pairs	3 pairs
12	Torque Wrench set	2 set	NA
13	High voltage discharge rod	2 no	1 no
14	Dual mode Air Blower (Normal and Heating Mode)	2 no	2 no
15	Safety Belt	4 no	4 no
16	Emergency lights	4 no's	4 no's
17	Cable Jointing Kit (Gas bottle & Burner)	1 no	1 no
18	Spade	4 no	2 no
19	Aluminium Ladder as site requirement	2 no	1no
20	Concrete / RCC Breaker M/c with RCC breaking Bit	1no	Not required
21	Regular use Drill heavy duty M/c with all types of drill Bit	2 no	1 no
22	Single phase Welding Set with complete Accessories	1no	1no
23	Extension board with hand lamp	2 no	2 no
24	Hot air Blower	5 no	2 no
25	Pressure		
26	3 Phase 50KVA Tyre / Trolley mounted D.G Set (new with year of manufacture 2024)	1 no	
27	3 Phase 5 HP Diesel operated Dewatering pump with all accessories such as cotton hose pipe & G.I fitting etc	1 no	
28	Hydraulic Scissor Lift (operating Height 40-50 ft)	1 no	
29	SF6 Gas filling kit with gas	As per requirement	
30	Pliers to every Electrician and Wireman		
31	Line Tester to every Electrician and Wireman		
32	Test lamps to every Electrician and Wireman		
33	Long through rechargeable Torches to each shifting staff		
34	First aid kits at all substation		
35	5 Sets of Wiper broom stick, Wipers, buckets & Dust bin		

However, any other tools felt necessary for execution of the work would also have to be arranged by the contractor.

33. Uniform & PPE:

The Contractor has to provide uniform to all the employees deployed for Maintenance Contract. Also all the employees of Contractor shall wear the uniform and PPE while on duty the uniform should be with company Logo.

The following PPE shall be provided by Contractor to his deployed staff during Maintenance contract.

Sr no	Description	
1	Helmet	For each Staff member
2	Safety Shoes	For each Staff member
3	Goggles	For each Staff member
4	Rain Coat	For each Staff member
5	Reflective Jacket	For each Staff member
6	H.T Rubber Hand Gloves	Each Substation 2 no's

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7	Face Shield (fire Proof)	Each Substation 2 no's
8	Gum boot	Each Substation 2 no's

34. H.T MAINTENANCE WORKS:

- Maintenance of 11 KV feeders of inside port area, Earth pits, Earthing flats/ Earthing Wires, etc., (material for replacement will be supplied by DPA on free of cost)
- Maintenance of RMU daily cleaning of RMU and routine / periodic maintenance should be carried out. (material for replacement such as P.T, C.T etc will be supplied by DPA on free of cost)
- Maintenance of HT & LT Capacitor Banks located at various places including maintenance/ repair/ replacement of associated switch gears i.e. pole mounted capacitor switches etc., (Material for replacement will be supplied by DPA on free of cost)
- Maintenance of 2 pole/ 3 pole/ 4 pole/ 6 pole structure/ yard including maintenance of Earth pits/ Earth flats/ Earth wires and removal of rank vegetation etc.
- Maintenance of HT / LT lines in port area and including maintenance / repair of LT overhead lines, LT pins /shackle insulators, jumpers, switch fuse units, MCCBs etc., (Materials/ accessories will be supplied on free of cost by DPA).
- Maintenance of the Earth pit, regularly checking of healthiness and taking the record of all the earthing and properly maintain in a log book. Separate log book for substation and its equipment's, Lighting tower & feeder pillar/ Load point & non- residential buildings. If in any area earthing value is found weak same is to put in the knowledge of Engineer-in-charge. Earthing of S/s & equipment should be maintained as per National safety council

35. NON- RESIDENTIAL BUILDINGS MAINTENANCE WORKS

- Replacement of defective/damaged flush type S.P. switches (material will be supplied by DPA at free of cost).
- Replacement of damaged Teak wood switch boards of various sizes with PVC Boards including fixing and commissioning and connection of existing switches (PVC Boards will be supplied by DPA at free of cost).
- Repairing/replacement of the T/L fittings/bulk head fittings/post top lanterns etc. at Non-Residential Buildings. (Required material will be supplied by the DPA at free of cost).
- Replacement of various sizes of defective/damaged switch combined sockets at Non-Residential Buildings. (switch combined sockets will be supplied by DPA at free of cost)
- Repairing/replacement of the existing damaged/unserviceable, buzzer/calling bell with new ones duly fixing on suitable T/W board/round block at Non-Residential Buildings. (Buzzer/calling bell will be supplied by DPA at free of cost).
- Repairing /dressing /replacement of the existing damaged/unserviceable casing capping/conduit wiring with required cable on suitable casing capping/conduit pipe with clips, clamps screws etc., including connections to the devises as directed (required sizes of wires PVC pipes will be supplied by DPA at free of cost)
- Repairing/replacement of defective/unserviceable ICDP/ICTP switch fuse units distribution Boards etc., as required (material will be supplied by DPA at free of cost).
- Replacement of damaged ceiling roses with new ones on suitable round blocks as directed complete with connection etc. (ceiling roses will be supplied by DPA at free of cost).
- Replacement of defective/unserviceable ceiling fan regulators on the existing switch boards with new ones using suitable screws etc., as directed (Ceiling fan regulators will be supplied by DPA at free of cost).
- Replacement of unserviceable energy meters with new/reconditioned energy meters (whichever applicable) on the existing switch board/plank as directed (energy meters will be supplied by DPA at free of cost).

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- Repairing/replacement of defective bulk heads/batten holders/pendent holders etc., existing in the stair case of the buildings by replacing holder, lamps, cover glass, wire guard etc., (required material will be supplied by DPA at free of cost).
- Replacement of unserviceable earth wire with 8/6 SWG GI wire duly fixing to the wall are drawing recessed in the ground and connecting to earth electrode and to the gadgets (GI wire will be supplied by DPA at free of cost).
- Fixing, connecting, commissioning of ICDP/ICTP switches/ DBs /MCCBs of various capacities with suitable hardware as directed by the Engineer-in-Charge (required material will be supplied by DPA at free of cost).
- Clamping of various sizes of cables to the wall/pole with suitable clamps at equal intervals using suitable hardware as directed by the Engineer-in-Charge (required sizes of clamps will be supplied by contractor & Cable will be supplied by DPA free of cost).
- Replacement of defective/unserviceable ceiling fans/wall mounted fans/exhaust fans etc., (fans will be supplied by DPA at free of cost).
- Checking of ceiling fans/wall mounted fans i.e., checking of cotter pin rubber, ceiling bush bolts, nuts, check nuts, washers, hook of the ceiling fan, etc.
- The maintenance staff should attend to electrical works other than those mentioned in the scope of work as per instructions of Engineer-in-Charge from time to time.
- Over hauling & cleaning of ceiling fans/pedestal fans/exhaust fans etc.
- Maintenance of distribution boards / L.T. panel if necessary replacement of MCCB/MCB/Contractors etc. as per the directions of Engineer-in-Charge. (Material will be supplied by DPA at free of cost against the defective material).
- All 3 pin sockets should have proper earthing connection and ensure the voltage between neutral.
- All loose wirings shall be made updated.
- All electrical installations, wirings, lines in non-residential buildings should be maintained intact, handed over to DPA in good working condition/intact on completion of contract.

36. HIGH MAST LIGHTING, LATTICE TOWER LIGHTING, PATHWAY LIGHTING AND STREET LIGHTING

- Repairing/replacement of the LED Flood Light fittings at High mast / Lattice tower situated at Inside Cargo jetty. (Required material will be supplied by the DPA at free of cost).
- Repairing / Replacement of LED fittings on Lattice tower, pump room, substation etc. (Required material will be supplied by the DPA at free of cost).
- Repairing / Replacement of LED Pathway fittings (Required material will be supplied by the DPA at free of cost) west gate 2 inside cargo jetty area. (Required material will be supplied by the DPA at free of cost).
- Maintenance of distribution boards / L.T. panel if necessary replacement of MCCB/MCB/Contractors etc. as per the directions of Engineer-in-Charge. (Material will be supplied by DPA at free of cost against the defective material).
- Repairing of Door / hinges of the boards / L.T. panel welding m/c and tools with manpower is in the contractor scope if any panel door found open during routine visit contractor will be held responsible for any damage and repair / replacement
- Painting of Street light pole / lighting panel etc. (Required material will be supplied by the DPA at free of cost).
- Repairing of feeder pillar of Lattice / High mast tower.

37. Vehicle:

1. Tata yodha / Mahindra Maxi Truck utility type vehicle to be procured by Contractor after getting LOI from DPA and the documentary evidence shall be produced with registration number to Engineer-in-Charge. The vehicle shall be of model 2024. The vehicle shall be exclusively used for shifting of men & material inside cargo jetty, collection of Diesel for DG Sets from Gandhidham.

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2. Mahindra Bolero of 5 seater vehicle to be procured by Contractor after getting LOI from DPA and the documentary evidence shall be produced with registration number to Engineer-in-Charge. The vehicle shall be of model 2024. The vehicle shall be exclusively used for shifting of men inside cargo jetty at different site of work, to & Fro from Gandhidham to Cargo jetty for material purchase etc. which will be under complete control of Engineer-in -charge. The vehicle will work for 12hrs period as decided by Engineer-in-charge.
3. **TRUCK MOUNTED HYDRAULIC SKY LIFT:-**
Contractor shall provide at site, the Hydraulic sky lift vehicle for O/H line maintenance/breakdown, street light maintenance purpose 24 Days X 7 Hrs. basis, the truck mounted hydraulic sky lift vehicle shall be stationed at Cargo Jetty S/S. The works includes providing Drivers on all time basis. The hydraulic sky lift vehicle, fuel, repair, maintenance, damage/failure repair responsibility is under contractor scope. Time to time hydraulic vehicle maintenance & always ready to availability is responsibility of contractor.
Hydraulic sky lift should be provided with safety precautions, elevating platform, having 10 -20 mtr height reachable. So that two person can safely work on the bucket provided at the end. Stability Legs to be provided to stabilize the equipment during process to carry out work safely. Lock valves should be provided to safeguard against the failure of hydraulic system and hand operated hydraulic power pack is to be provided to use during emergency lowering of the bucket to rescue the crew members. Stability legs should be provided at chassis of vehicle which give the stability to whole structure during the working of the equipment and provided swivel pads. Bucket must be of fiberglass material, insulated to 600V, non-slippery and light weight. Parallel links should be provided to keep the bucket horizontal during lifting up its position it should be rotated 360 degree for taking position for working. Operating Valves should be provided at the deck and at bucket. Legs control switches are lever operated and provided at the deck only. emergency Operating system should be provided to stop the equipment in position at the time of vehicle engine failure.

Performance:

1	Max. Working Height Approx.	10-20 meters.
2	Approx. Max. Outreach Approx.	3.5 - 5 meters.
3	Approx. Swivelling angle	360°
4	Safe working Load	120 Kg
5	System Pressure	170

Individual log book should be maintained for each vehicle the site supervisor of DPA shall be responsible and total control of the vehicle. The vehicle should not be used for transportation of manpower from their home to work site. However, for transportation of shift staff, loading & unloading the material for which contractor shall arranged the own arrangement of vehicle at their own cost. The vehicle should not be older than January 2024. Separate log book should be kept in each vehicle and properly maintained daily showing the Kilometer travelled with signature of the supervisor / Site in-charge using the vehicle. The vehicle driver should be provided with company uniform and vehicle should be stationed at Cargo Jetty Substation. Contractor should keep vehicle driver having heavy licenses and copy of the license of driver along with insurance copy of vehicle and copy RC book of individual vehicle should be submitted to site office within 1 week of issue of work order.

38. The contractor is required to make his own arrangement for to & fro for timely transportation of required material as well as staff for maintenance work during the currency of the contract.
39. **OEM Inspection: -**
On the written instruction of EIC, the contractor is required to engage authorized representative of OEM at his own cost for once in a year for Inspection , Overhauling, Gas filling (In case CSS), others essential services of the installed equipment's during the contract period. The contractor

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is required to ensure the site visit of the authorized representative of OEM within 15 days from the date of issue of written intimation by EIC.,

Note:

- Apart from engagement of authorized representative of OEM as mentioned above, if DPA EIC feels necessary for the expertise of OEM for any reason, the cost of the same will be borne by the contractor only.
 - During the visit of OEM / Authorize Service Centre engineers for assessment for all type spares accordingly purchase the genuine spares for carry out the Plan / Preventive / Breakdown maintenance, cost of such spares parts (other than Part-B &Part-C) shall be reimbursement by DPA on production documentary evidence & actual invoice. If OEM inspection not carried out by the contractor in time and even after intimating. The OEM visit will be executed by DPA and cost will be reimbursed from RA Bill of the visit. OEM Engineer / Authorize Service Centre Engineers, service charges, accommodation, Transportation is under the scope of contractor.
- 40 During the currency of the contract, the contractor is required to assess the condition of the transformers by conducting Dissolved Gas Analysis (DGA) technique. In this regard, the results of the DGA for each transformer should be built into a data bank and based on the trend of the gas level over a period of time as well as the faults, if any, that the transformer had suffered, an analysis may be done to establish the exact nature of the incipient fault that may be developing in the transformer. The DGA shall be done through any approved NABL accredited laboratory.
- 41 All substations are required to be cleaned and moped once in a day. Once in every month all the unwanted material from the wall and ceiling should be removed & once in every year white washing of all the substation should be carried out only after doing white washing the next year bill will be released i.e after completion of AMC period of 6months.
- 42 The miscellaneous works as mentioned in Schedule "C" will be informed as per requirement and availability at site accordingly the contractor shall deploy adequate manpower to meet target given by DPA during execution of work. AMC staff should not be involved for the work mentioned in Schedule" C"

Seal & Sign of
Contractor

Sd/-
Superintending Engineer (E)
Deendayal Port Authority

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TECHNICAL SPECIFICATION FOR PART – B

1. Technical Specification for Item no :-1

The contractor should supply Stainless Steel safety wire rope of Usha martin make which should be of make Of ANS1-316 type and 6mm / 8 mm / 10mm dia, with breaking load capacity of 32000 Kgf .sq. and the length of one set of wire rope for each mast should be (32 x 5) i.e 160 mtr.

2. Technical Specification for Item no :-2

The Contractor should supply Electrical Hoist trailing round Cable with PVC insulation copper core should be 5 core x 4.0 sq.mm and the length for each mast should be (35 x 2) 70mtr.

3. Technical Specification for Item no :-3

winch shall be of completely self-sustaining type, without the need for brake shoe, springs or clutches. Each driving spindle of the winch shall be positively locked when not In use, gravity activated Pawls. The capacity, operating speed, safe working load, recommended lubrication pue serial number winch shall be clearly marked on each winch.

The gear ratio of the winch shall be 53:1. However, the minimum working load shall be not less than 1200 kg. The winch shall be self-lubricating type by means of an oil bath and the oil shall be readily available grades of reputed producers. 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 turns of rope remains on the drum even when the lantern carriage is fully lowered and rested on the rest pads. It should be possible to operate the winch manually by a suitable handle or by an integral power tool. It shall be possible to remove the double drum after dismantling, through the door opening provided at the base of the mast. A test certificate shall be furnished by the Vendor from the original equipment manufacturer, for each winch in support of the maximum load operated by the winch. The winch shall be type tested and the type test report shall be submitted. The winch shall be type tested in presence of Institutions like IIT's, NIT's.

4. Technical Specification for Item no :-4

(POWER TOOL)

Supply of Induction motor with Sprocket attached which should match the existing HM fitting

(a)	Model	:	Internal
(b)	Input supply	:	415 Volts, 3 Phase 50 Hz.
(c)	Wattage / HP	:	1.5 Watts / 2 HP
(d)	RPM	:	950 (rpm).
(e)	Duty	:	S4.
(f)	Frame	:	100L.
(g)	IP	:	55.
(h)	Number Of Speeds	:	Single speed. (Reversible)
(i)	Operating Speed	:	2M / Min
(g)	Remote control winch	:	
	i) Type	:	Push button with cords

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ii) Length of control cable : 5 / 6 Mts

5. Technical Specification for Item no :-5

- a) This includes supply of 6 Way double door vertical SP&N MCB DB with IP42 degree of protection. The DB shall be made from special grade of CRCA sheet and powder coated. The DB shall be fitted with Busbar, DIN Rail and neutral link. The rates shall be excluding the cost of MCB as directed by Engineer-in-Charge.
- b) This includes supply of 4 Way double door TPN DB with IP42 degree of protection. The DB shall be made from special grade of CRCA sheet and powder coated. The DB shall be fitted with Busbar, DIN Rail and neutral link. The rates shall be excluding the cost of MCB as directed by Engineer-in-Charge.
- c) This includes supply of 8 Way (8 Incomer + 24 Outgoing) double door TPN DB with IP42 degree of protection. The DB shall be made from special grade of CRCA sheet and powder coated. The DB shall be fitted with Busbar, DIN Rail and neutral link. The rates shall be excluding the cost of MCB as directed by Engineer-in-Charge.

6. Technical Specification for Item no:-6

This includes supply at site MCCB as per the capacity and Breaking capacity mention in the schedule the MCCB supplied to DPA store should match the existing MCCB fitted in the present panels therefore before supply of above material return clearance should be obtained by the Engineer-in-charge to avoid any addition alteration in the existing panel.

7. Technical Specification for Item no :-7.

- a) This includes supply of DIN Rail mounted 'C' Series 6-32 Amps. X 240 Volts 50 Hz. Single Pole MCB with 10kA Breaking Capacity.. The terminals of MCB shall be serrated type.
- b) This includes supply of DIN Rail mounted 'C' Series 6-32 Amps. X 240 Volts 50 Hz. Double Pole MCB with 10kA Breaking Capacity. The terminals of MCB shall be serrated type.
- c) This includes supply of DIN Rail mounted 'C' Series 6-32 Amps. X 415 Volts 50 Hz. Four Pole MCB with 10kA Breaking Capacity. The terminals of MCB shall be serrated type.
- d) This includes supply of DIN Rail mounted 'C' Series 40 Amps. X 415 Volts 50 Hz. Four Pole MCB with 10kA Breaking Capacity. The terminals of MCB shall be serrated type.
- e) This includes supply of DIN Rail mounted 'C' Series 63 Amps. X 415 Volts 50 Hz. Triple Pole Neutral (TPN) MCB with 10kA Breaking Capacity. The supplied MCB shall be conform to IS:8828:1996, IEC:60898-1:1995. The terminals of MCB shall be serrated type.

8. Technical Specification for Item no :-11.

This work includes providing approved make electrical accessories such as Switch disconnecter fuse unit with the quantity as mention in schedule as per the capacity and existing make required to be replaced from the panel and as directed by Engineer-in-charge.

9. Technical Specification for Item no :-15.

This includes supply at site 1.1 KV grade, 4.0 / 10 Sqmm 31/2 / 4 core Aluminium conductor, XLPE insulated armoured cable confirming to IS: 7098 (Part-I) 1985 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 3 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.

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The rate shall exclusive of GST & inclusive of all taxes, packing, forwarding, insurance, transportation and unloading at site of work etc.

10. Technical Specification for Item no :-16.

Supply at site environmental friendly energy efficient 40 Watt tube fixture. The fixture should be of low power consumption & having high efficiency. The housing provided for the above luminary should be of Epoxy powder coated white extruded Aluminium channel housing for efficient heat dissipation. With cover having milky white special polycarbonate diffuser for glare free light distribution and end caps made of elegantly designed white coloured ABS end caps to enhance the aesthetic view for fixture. The luminary should be suitable to be mounted on wall/ceiling by means of mounting SS clips provided in the fixture. The luminary should be, short circuit and surge protection and should be provided with suitable connecting terminal for electrical connection as per technical description given below :

Technical Requirement for LED 40 Watt tube fixture

Sr no	PARAMETER	VALUE
1	Input Voltage	120-260V However, condition for voltage fluctuation should be considered and the system should be robust enough to withstand such variation in supply source.
2	Total Harmonics Distortion	Should be less than 10%
3	Lamp efficiency	≥ 70/w
4	Power consumption	Minimum 40 W
5	Power Factor	≥ 0.90
6	Life Expectancy	About 50,000 burning hours at a ambient temp 45degree centigrade
7	LED Driver	Constant Voltage and current
8	Control Circuit	Compatible to LED
9	Input Frequency	50+/-1Hz
10	Colour Rendering Index	Minimum CRI of 70
11	Colour Temperature	Minimum 3000K
12	Make LED	Cree/Nichia/Edison/Osram/Philips Lumiled / Seoul Semiconductor /Epistar / Samsung (The contractor should produce the certificate of LED Make in the particular luminary used.)
13	Guarantee / Warrantee	Minimum 03 year
14	Certification preferred/essential	LM79/ LM 80

11. Technical Specification for Item no :-17.

This includes supply of 120W LED pre-wired Street Light Fitting with constant current LED driver. Operating voltage for luminaries shall be 230 Volts 50Hz. A.C. supply. The rate shall inclusive of all taxes, excise duty, VAT, packing, forwarding, insurance, transportation and unloading at site of work etc. The luminaries shall be comprises with following Technical particulars.

Sr.	DESCRIPTION	MINIMUM VALUE
01	Input Power	120W
02	Input voltage AC	90-300 V
03	Input Frequency	50 HZ +/-1 HZ
04	Life	50,000 glow hrs.
05	Inter-changeability	Suitable for pole pipe bracket
06	Total Harmonic Distortion	<15% maximum
07	Working Temperature	-20°C to +50°C
08	Working Humidity	10% to 90% RH
09	Temperature	6500° K

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10	Colour rendering index	>75
11	Lumens / Watt	105Lum/W
12	Finishing	Excellent with Powered Coating
13	Power factor	Not less than 0.90
14	Warrantee	Minimum 02 year
15	Heat sink	Good thermal management System should be provided & LED must be mounted on heat Sink conductive aluminium bars With suitable large surface area by Means of fins to dissipate the heat to ambient air.
16	Working Humidity	10% to 90% RH
17	Lamp Housing	Pressure Die cast aluminium housing
18	LENS Material	Convex Lens (Polycarbonate cover/PMMA) 65mm dia
19	Ingress protection Level	IP 67
20	Power efficiency	Min. 80%
21	Road viewing angle Light Source	Horizontal 120 Degree & Vertical 70 Degree SMD LED array with lens
22	Guarantee / Warrantee	Minimum 03 year
23	Makes of LEDs	Cree/Nichia/Edison/Osram/Philips Lumiled / Seoul Semiconductor /Epistar / Samsung (The contractor should produce the certificate of LED Make in the particular luminary used.)
24	Certification preferred/essential	LM79/ LM 80

12. Technical Specification for Item no :-18.

- a) This includes supply of 250 W LED pre-wired Street Light Fitting with constant current LED driver. Operating voltage for luminaries shall be 230 Volts 50Hz. A.C. supply. The rate shall exclusive of GST & inclusive of all taxes, packing, forwarding, insurance, transportation and unloading at site of work etc. The luminaries shall be comprises with following Technical particulars.

Sr.	DESCRIPTION	MINIMUM VALUE
01	Input Power / Lumen Out put	250W / 21000 lumens
02	Light Source	High power discrete LEDs with secondary lenses for optimum optical performance
03	Input voltage AC	110-270 V
04	Input Frequency	50 HZ +/-1 HZ
05	LED efficiency	>100(Lumen/watt)
06	Colour rendering index	>70
07	Operating Maintenance	L70 at 50,000 glow hrs.
08	Working Temperature	-10°C to +50°C
09	LED driver efficiency	> 90%
10	Driver	Driver with in built protection surge vg (upto 405KV) open/short Ckt.
11	Power factor	Not less than 0.95
12	Surge Protection	> /= 10KV (External)
13	Total Harmonic Distortion	<20%
14	Ingress protection rating (IPrating)	IP 66
15	IK rating	IK 08
16	Lamp Housing	Extruded aluminium housing cum heat sink. Pressure Die cast aluminium end covers. Heat resistant toughened glass with IK08 impact resistance.
17	Correlated colour Temperature	5700K+/-500K (option of colour temp)
18	Installation	M.S powder coated mounting bracket Suitable for mounting, Stirrup fixation, mounting bracket
19	Finishing	Excellent with Powered Coating

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20	Guarantee / Warrantee	Minimum 03 year
21	Makes of LEDs	Cree/Nichia/Edison/Osram/Philips Lumiled / Seoul Semiconductor /Epistar / Samsung (The contractor should produce the certificate of LED Make in the particular luminary used.)
22	Viewing angle Light Source	Graduation Disc for precise among flood lights
23	Certification preferred/essential	LM79/ LM 80

13. Technical Specification for Item no :-19.

This includes supply at site, laying, G.I Wire 8 SWG & G.I strip of size 25 x 3 mm from earth station / existing earthing system to L.T. panel, L.T switchgears, etc. as directed. The G.I strip is required for earth station, earth linking of LT switch gears & transformers etc. directly 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 work includes all material & labour required shall done as directed by Engineer-in-charge.

14. Technical Specification for Item no :-20.

This includes supply of 1200 mm sweep ceiling fan inclusive of all taxes, packing, forwarding, insurance, transportation and unloading at site of work. The fan should be fitted with heavy duty grease filled double ball bearing that ensures noiseless performance and long lasting smoother life of fan suitable upto 250V AC supply. The Fan blades aerodynamically balanced to ensure air delivery 210 M³/Minute at 340 RPM & 52 Watts power consumption with ISI & 5 star rating. The blades shall be made of 'heavy gauge' aluminum sheet so as to retain the blade's angel over a longer period. The Fan motor made of superior grade copper wire and impregnated in special varnish for long life operation. The motor shall be totally enclosed and low-loss-silicon steel stampings ensure minimum power consumption with high optimum output. The Fan coated with a special anticorrosive enamel paint that makes them rust free and ensures a classic appearance and longer life. The supplied fan conforming to ISI specifications. The fan shall be supplied with rotary step cut electronic regulator all accessories such as down rod 30/60/120cm long, PVC Bobbin, Stainless Steel Nut Bolt with cotter pin, capacitor etc. of approved make and as per IS: 374 specification as directed by Engineer-in-charge.

15. Technical Specification for Item no :-21.

This includes supply at site double arm detachable type 9 Meter long GI Octagonal Pole. The Octagonal pole shall be designed to withstand the maximum wind speed of 180 Km/hr. Maximum deflection of the pole shall meet the requirement of BS 5649: part 6 1982.

The pole shaft shall have Octagonal cross section and shall be continuously tapered with single longitudinal welding. There shall not be any circumferential welding. The Octagonal pole shaft shall be provided with the rigid Flange plate of 20mm thickness with provision for fixing 4 bolts of size 1200mm long and of 20mm dia. This base plate shall be fillet welded to the pole shaft at two locations i.e. from inside and outside.

The Octagonal pole shall have door of approximate 500mm length at the elevation of 1 meter from the Base plate. The door shall be flush with the exterior surface and shall have suitable locking arrangement. The door shall be vandal resistance and shall be dust proof to ensure safety of inside connections. The base compartment shall have provision to fix up the small Bakelite wooden board of suitable size to mount two nos. of SP MCB, terminal connector & service connections etc. The contractor shall supply the bakelite wooden board. There shall also be welded a cleat of size 40 x 40 x 4mm for the purpose of Earthing as per IS 3043. The pole shall be adequately strengthened at the location of the door to compensate for the loss in section.

The steel of Octagonal pole shall confirming to St35 grade, base plate of the Octagonal pole shall be confirming to IS 226/IS2060 steel and foundation bolts as per IS.

The pole shall be hot dip galvanized as per IS 2629/IS 2633/IS 4759 standards with minimum coating thickness of 65 micron.

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The dimensions of the pole are stated as under:

- | | | | |
|----|--------------------------|---|-----------------------------|
| 1. | Overall Length | : | 9 Meter |
| 2. | Top diameter | : | 100 mm and thickness 3mm |
| 3. | Bottom diameter | : | 200 mm and thickness 3mm |
| 4. | Thickness of base plate | : | 20 mm |
| 5. | PCD | : | 310 x 310 mm |
| 6. | Size of foundation bolts | : | 1200 mm long with 20mm Dia. |

The pole shall be provided on top with the detachable type canopy having double arm emerging from the canopy pipe at an angle of 105 degrees with respect to vertical top pipe.

The side arm shall be of 1500 mm and made from approx. 75 mm OD with having 2.35 mm wall thickness. The octagonal canopy shall be suitable size with respect to top of pole. The overall height of canopy shall be 600 mm, 4 nos. of locking bolts shall be provided on the canopy to hold it in position when put on the top pipe of Octagonal pole. The side arm pipe shall project inside the canopy pipe by 30 mm and shall be suitable nipple for receiving 120 watt LED Road light luminary. The pole manufacturing & galvanizing unit shall be preferably ISO 9001: 2000 & ISO 14001 certified to ensure consistent quality & environmental protection.

16. Technical Specification for Item no :-22.

This includes supply of heat shrinkable Straight through joint suitable for 3 core HT 11KV XLPE cables including providing fixing Aluminium solder lugs for HT switchgears and copper lugs for transformer of suitable size with all required materials. The Heat Shrinkable Straight through joints 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. the Heat Shrinkable Straight through joints offered shall conform to the latest applicable Indian, IEC, or International Standards and in particular, to the IS: 13573- Part 2, 2011 : Type Test and Performance requirement for Cable Termination & Joints on XLPE cable for 6.6KV

17. Technical Specification for Item no:-23.

This includes supply of heat shrinkable indoor/ outdoor end termination joint suitable for 3 core HT 11KV XLPE cables including providing fixing Aluminium solder lugs for HT switchgears and copper lugs for transformer of suitable size with all required materials. The Heat Shrinkable end termination joints kit 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. the Heat Shrinkable Straight through joints offered shall conform to the latest applicable Indian, IEC, or International Standards and in particular, to the IS: 13573- Part 2, 2011 : Type Test and Performance requirement for Cable Termination & Joints on XLPE cable for 6.6KV

**Seal & Sign of
Contractor**

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

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TECHNICAL SPECIFICATION FOR PART – C

1. Technical Specification for Item no :-1.

This work includes Dismantling and Re-erection of the high mast (30M) with the help of suitable tools, Crane/Earthmover, plants & equipment at the existing foundation with replacement of Hardware by new one as per original.

- However, fixing of all the accessories like safety and suspension wire rope, trailing cable, power tool, Gear Box, luminaries with all wiring and control gear box and hire of Crane/earthmovers charges are to be operated from item considered in Schedule "B-I" & "C". However if any major item left out and required to complete the work then the Contractor has to undergo the work and reimbursements can be done as per clause no 6 & 7 of scope of work .
- The details scope as under.
- The works include repair/replaced to lantern carriage & Head Frame its accessories same to be dismantle & dented parts to be strengthen and re-assemble with appropriate size nut, bolts, brackets, hardware and same is to be fitted on High Mast tower as per its original position. Necessary fabrication & fittings, required High Mast Spares (as mentioned in Schedule B-1,B-II & C).
- The work includes replacement of old damaged wire rope, The contractor should replace safety wire rope of length (35X2) and suspension wire rope (35X3).both the suspension and safety wire rope replace for each High mast should be stainless steel, after replacement of new wire rope, contractor should deposit the old exiting wire rope in sub-division store. The work includes all labour and material such as clamps etc. as directed by Engineer-In-Charge.
- The work include repairing/replace to Double Drum winches, Motor, Chain, sprocket, and same is to be made functionally operation, & also implement the necessary oiling greasing in Gear Assembly. The work includes fixing the single /double luminaries fixture as per requirement / as directed by EIC, with control gear box on repaired lantern carriage, with necessary connection of Trailing Cable (Male & Female socket), & same rising on its original position, its control wiring connection is in the scope of contractor with required flexible cable, taken from JB to individual luminaries control gear box.
- Necessary hardware & fasteners shall be SS, shall be under scope of contractor. During the execution of work, contractor shall take the damaged lantern ring / Head frame / Pulley /Bracket from the individual High Mast Location or Sub Division Store for strengthening / necessary special repair, if not available the head Frame / Double Drum winch / Compensating Disc/Motor /Lantern Ring etc. same should be arranged /supplied by contractor reimbursements can be done as per clause no 6 & 7 of scope of work.
- If any reason power supply not available at site for rising & lowering the high mast or other necessary High Mast work, firm shall arranged, own their arrangement for complete the work.
- The work includes Replacement of Lantern Carriage/Double Drum winch / Compensating Disc as & when required. The carriage shall be arranged to locate firmly against stops when in the service position (dock in point) and those stops shall be of adequate strength to ensure that they cannot be damaged by over – winding of the winch. They shall be of stiff enough construction to provide an immediately recognizable increase in winch drive effort when they make contact and to withstand the full pretensioning of the wire rope and the varying forces which will occur in service. The fixing for the luminaries and control gear units shall be such that those units can readily be removed.
- The work includes all labour and material such as U size clamps (S.S), Nut & Bolts etc. which is to be procured by contractor as directed by Engineer-In-Charge.

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2. Technical Specification for Item no :-2.

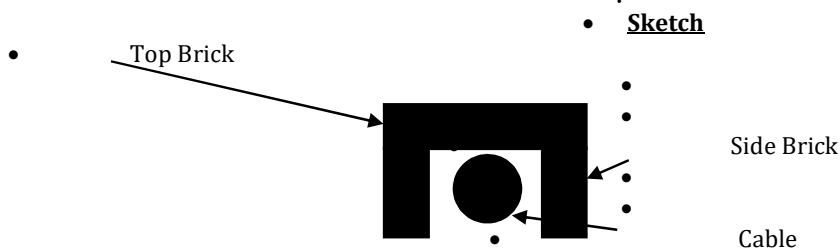
The work consists of laying LT cables of 3.5 / 4 x Core 50 on wall surface, beam, cable tray, etc. with suitable size of G.I. saddles/spacer of 2mm thick and shall be rigidly fixed on cemented wooden gutties or polymeric gutties at a distance of not more than 0.6 mtr interval. And wherever the cable is to be run on tray same shall be fixed with suitable size of clamp & hardware. This also includes termination at both end by required size of cable gland and with suitable size of lugs with all material and labour and as directed by Engineer-in-charge.

3. Technical Specification for Item no :-3.

Cable shall be laid underneath by using Horizontal Directional Drilling (HDD) method by putting suitable diameter HDPE pipe (suitable for cable size up to LT 4C X 300 Sq.mm having strength 10Kg/sq.cm, shall in contractor scope), The contractor should arrange JCB Machine for excavation, water for drilling, de- watering pump, HDD equipment's of 32 Ton or above capacity along with mud pump at their own cost. The cable shall be pass through heavy duty HDPE pipe buried at nominal minimum depth 165 cm or according to construction of RCC Road/ Rail network or as per directed by EIC. For single cable individual HDPE shall be pass through a road /rail crossing, for separate cable. Separate HDPE pipe shall pass through the Tunnel / trench. Laying of HDPE pipes coupled by HDPE socket only after standard length in excavated trench/tunnel and also sealing of HDPE pipe ends by suitable cap at every manhole. Back filling & dressing of excavated trenches as per specification. This includes all labour and material as directed by Engineer-in-Charge.

4. Technical Specification for Item no :-4.

This includes laying of single length cable of size up to 4 core, 150 Sq.mm LT armoured aluminium Conductor XLPE Cable of 1.1KV Grade through excavation in soft/hard soil. The trench to be excavated 300mm wide, 600mm deep. The bed of 50mm of river sand shall be provided in the bottom of the excavated trench. The cable shall be laid over the bed of river sand. The cable shall be protected as per Sketch shown below by providing and laying bricks both the sides lengthwise parallel to the cable & the gaps shall be filled with river sand. The cable shall be covered by keeping two bricks over the side bricks shown in the sketch. The 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 spreaded in low laying area as directed. This includes all labour and material as directed by Engineer-in-Charge.



5. Technical Specification for Item no :-5

Rewinding of Ceiling Fan of 1200/1400mm sweep / Exhaust Fan / Wall mounting fan etc with super enamelled copper winding wire, insulated with insulating varnish and baking of winding including overhauling etc as per Scope of Work

- The Contractor shall collect the defective/failed Ceiling/Wall mounting type Fan from Electrical site offices Cranes Section on 1st & 3rd week of every month, subject to handing over the previous lot collected by Contractor.
- The Contractor shall arrange the transport from DPA site offices to their works & vice-versa on their own.
- The winding of Fan motor shall be done by super enamelled copper wire with 'H' Class

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insulation Polyester Imide + Polyamide (Dual Coat) & Temp. Index 180°C & good quality of insulation paper of 'F' Class. After rewinding, the Red Dr. Beck Polymer shall be applied to the winding after varnishing and fan motor shall be kept for baking for suitable time. However, the rated RPM shall be maintained at the time of winding.

- Bearing should be replaced by new one and same is to shown to DPA Supervisor and same should be procured by contractor.
- Proper register should be maintained by the contractor supervisor and replacement time and DPA supervisor signature should be obtained.
- There should be minimum (10no) stock of the repaired fan kept in the store.
- The scrap material like winding wire, worn out shaft/ bearing shall be retained by Contractor.
- The Supervisors / JE of DPA side shall inspect & confirm the quantity of repaired fans at the works of Contractor and same shall be listed out (Signed by both the Supervisor of DPA & the Contractor) as per of B.O.Q. The copy of list shall be submitted by Contractor along with the Bill.

6. Technical Specification for Item no :- 6.

The works include Providing & fixing chemical treated back filled compound earthing station, in Pipe for 2000 Amps (LT) capacity , complete with civil work. Marking on each earth pit coloured / painted by yellow painted on top and value also mentioned on top which less than 1 ohm. The complete work consists necessary wiring connections and earth linking at both the ends with all materials and labour as directed by Engineer-in-charge.

7. Technical Specification for Item no :- 7.

The works include providing & fixing the following size earth strip from earth station to equipment / Main DB or as per requirement. The complete work consists necessary wiring connections and earth linking at both the ends with all materials and labour as directed by Engineer-in-charge

- i). 12 SWG Hot DIP GI wire,
- ii). 40X 6 Hot DIP GI strips.

8. Technical Specification for Item no :- 8.

The poles shall be bolted on a precast RCC foundation with a set of four foundation bolts for greater rigidity. This includes fixing & erection of 9 meter long with detachable type double arm Octagonal pole on foundation to be prepared by excavation of pit of 600mm (W) x 1000mm (L) x 1300mm deep after carrying out necessary excavation. At the bottom of pit 10cm of sand layer shall be provided and over that 10cm CC of 1:4:8 mix shall be provided and then foundation bolt of size 1200mm long of 20mm dia shall be buried in the CC up to the length of 1165mm and thereafter pit shall be filled with 1:2:4 CC mix of cement sand and 6 to 20mm graded metal course aggregate concrete. The termination and connection through connector and MCB of junction box shall be done through cable brass glands of suitable size including earth linking to the pole and junction box with 8 SWG GI wire with all material and labour as directed by Engineer-in-charge.

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Deendayal Port Authority**

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Annexure-I

DETAILS OF ASSETS/EQUIPMENTS AVAILABLE FROM ZERO PANEL TO BERTH NO. 10 AND BERTH NO. 13 TO BERTH NO. 16

DETAILS OF SUSTATION EQUIPMENT FROM NORTH GATE TO BERTH NO 10

(1) Cargo Jetty Substation:

- The 11/0.433kV Substation has 11 way RMU which comprise of 2 Incomer, 3 Transformer Feeder and 6 Outgoing Feeder. The details of the RMU installation is as below:

Circuit Breaker No.	Type of Feeder	Power supply from/to
1	Incomer	66kV Substation
2	Incomer	6 th Berth Substation
3	O/G Feeder	Port Power House – 1
4	O/G Feeder	Port Power House – 2
5	O/G Feeder	TS – 4 Substation
6	O/G Feeder	Spare
7	O/G Feeder	MBE Crane No. 3
8	O/G Feeder	MBE Crane No. 4
9	Transformer Feeder	Transformer – 2
10	Transformer Feeder	Transformer – 1
11	Transformer Feeder	Spare

- There are two 1500kVA, ONAN, 11/0.433 kV Distribution Transformer of 'Voltamp' make.
- The details of LT distribution panel are as below:
 - (1) LT Panel – 1:
 - Make: C & S, Rating of Incomer Feeder ACB: 3200 A, Rating of Bus Coupler Feeder: 3200 A and other Outgoing Feeder's Rating is 800 A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-1 (C&S)	TS-4 Tower
2		TS-4 Toilet
3		LT JB
4		MBE Crane – 2
5		MBE Crane – 1
6		Spare
7		Bus Coupler
8		Incomer from Transformer – 3
9		Incomer from Transformer – 1
10		WT main cable
11		Main Canteen
12		Spare
13		Spare
14		Godown light No. 10 to 17
15		LP-1

(2) LT Panel – 2:

Make: CG, Rating of Incomer Feeder ACB: 3200 A, Rating of Bus Coupler Feeder: 3200 A and other Outgoing Feeder's Rating is 800 A.

Sr. No.	Panel Tag	Feeder Tag
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1	LT Panel-2 (CG)	Incomer from Transformer – 2
2		TS-1&2, Warehouse A&B
3		Indian Molasis
4		Warehouse
5		Bajaj-2
6		Cargo Jetty S/s
7		ATM Office
8		Bus coupler
9		Bajaj-1 (Not in service)
10		NG 30
11		SDB-12
12		HM Tower (1 To 4)
13		ATM office
14		SDB-13
15		I/c feeder

(3) LT Panel 3:

Rating of Incomer Feeder ACB: 3200 A, Rating of Bus Coupler Feeder: 3200 A and other Outgoing Feeder's Rating is 800 A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-3	Indication and metering feeder
2		ACB
3		Relay Panel
4		Spare
5		Mukand office
6		TS-4
7		Spare
8		Spare
9		Spare
10		Bus Coupler
11		SS lighting
12		Spare
13		Spare
14		Spare
15		Spare
16		Spare
17		I/c feeder

(4) LT Panel 4: (Make: Bajaj) LT panel is not in service.

➤ Substation Lighting & Miscellaneous:

Total tube light	28
(a) On condition	19
Vacant	9
LED Flood Light	3
Industrial Fan	3 Nos.
Fire Extinguisher	3
First Aid box	1 no.

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

(2) TS-4 Substation:

- The 11/0.433kV Substation has 6 way RMU which comprise of 2 Incomer, 2 Transformer Feeder and 2 Outgoing Feeder. The details of the RMU installation is as below:

Circuit No.	Breaker	Type of Feeder	Power supply from/to
1		Incomer	From Cargo Jetty Substation
2		Incomer	Spare
3		O/G Feeder	MBE Crane No. 5
4		O/G Feeder	Spare
5		Transformer Feeder	Transformer – 1
6		Transformer Feeder	Transformer – 2

- There are 2, 1500 kVA, ONAN, 11/0.433 kV Distribution Transformer of 'Voltamp' make, out of which one Transformer is in service and another is out of service.

- The details of LT distribution panel are as below:

(1) LT Panel – 1:

Rating of Incomer Feeder ACB: 3200 A, Rating of Bus Coupler Feeder: 3200 A and Outgoing Feeder's Rating is 800 A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel	Indication and metering feeder
2		ACB
3		Relay Panel
4		Spare
5		Mukand office
6		TS-4
7		Spare
8		Spare
9		Spare
10		Bus Coupler
11		SS lighting
12		Spare
13		Spare
14		Spare
15		Spare
16		Spare
17		I/c feeder

(2) LT Panel – 2: LT panel is not in service.

- Substation Lighting & Miscellaneous:

Total tube light	28
LED Flood Light	250W LED flood light: 3 Nos.
Fire Extinguisher	1 No.
First Aid box	1 No

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

(3) 6th Berth Substation:

- The 11/0.433kV Substation has 8 way RMU which comprise of 2 Incomer, 2 Transformer Feeder and 4 Outgoing Feeder. The details of the RMU installation is as below:

Circuit Breaker No.	Type of Feeder	Power supply from/to
1	Incomer	From 66 kV Substation
2	Incomer	Spare
3	O/G Feeder	Cargo Jetty Substation (LiLo)
4	O/G Feeder	Isolator Room (LiLo)
5	O/G Feeder	Spare
6	O/G Feeder	Spare
7	Transformer Feeder	Transformer – 1
8	Transformer Feeder	Transformer – 2

- There are 2 ONAN, 11/0.433 kV Distribution Transformer of 750kVA 'Bharat Bijlee' make and 1000kVA 'Patson' make, out of which 1000kVA Transformer is working & 750kVA Transformer is out of service.

- The details of LT distribution panel are as below:

(1) LT Panel – 1:

Make: Popular Power Control, Rating of Incomer Feeder ACB: 1000A, Rating of Outgoing (SFU) Feeder: 125A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-1	1F-1 Indication and metering feeder
2		1F-2 ACB
3		1F-3 (Relay Panel)
4		2F-1 (Street light 6 berth)
5		2F-2 (Weight bridge 6 and 7)
6		2F-3
7		2F-4 (Tower-1)
8		2F-5
9		3F-1 (Marine Unloader)
10		3F-2 (Spare)
11		3F-3 (Opposite crane)
12		3F-4 (HM-2)
13		3F-5 (Tower-5)
14		4F-1 (Tower-1)
15		4F-2 (Tower-2)
16		4F-3 (Tower-3)
17		4F-4 (Tower-1 (ii))
18		4F-5 (Tower-5)

(2) LT Panel – 2: LT panel is not in service.

Make: Popular Power Control, Rating of Incomer Feeder ACB: 1000A, Rating of Outgoing (MCCB) Feeder: 250A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-2	Indication and metering feeder
2		ACB
3		Load Point at crane section (Canteen)
4		Spare
5		Spare
6		Substation lighting

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

7		Spare
8		Spare

➤ Substation Lighting & Miscellaneous:

Total tube light	14 Nos.
LED Flood Light	1 No.
Fire Extinguisher	2 Nos.
First Aid box	1 No

(4) 7th Berth Substation:

- The 11/0.433kV Substation has 6 way RMU which comprise of 2 Incomer, 2 Transformer Feeder and 2 Outgoing Feeder. The details of the RMU installation is as below:



Circuit Breaker No.	Type of Feeder	Power supply from/to
1	Incomer	From 66kV Substation
2	Incomer	Spare
3	O/G Feeder	Isolator Room (LiLo)
4	O/G Feeder	Scanner Panel
5	Transformer Feeder	Transformer – 1
6	Transformer Feeder	Transformer – 2

- There are 2 ONAN, 500kVA, 11/0.433 kV Distribution Transformer of 'Kirloskar' make and 'EMCO' make, out of which Kirloskar make Transformer is working & EMCO make Transformer is out of service.

- The details of LT distribution panel are as below:

(1) LT Panel – 1:

Make: Popular Power Control, Rating of Incomer ACB: 1000A, Rating of Bus coupler ACB: 1000A, Rating of Outgoing (MCCB) Feeder: 250A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-1	1F-1 HM tower 5 & 6
2		1F-2. LM-9
3		1F-3. CK Lighting
4		1F-4.(Spare)
5		2F-1.(Back High Mast)
6		2F-2.(Spare)
7		2F-3.(11KV VCB panel 230 V supply)
8		2F-4.(Spare)
9		3F-1.(I/c metering feeder)
10		3F-2 (ACB)
11		4F-1 (I/c metering feeder)
12		4F-2 (ACB)
13		4F-3 (ACB)
14		5F-1 (RAS berth-13)
15		5F-2 (Tower no. 15)
16		5F-3 (Tower no. 15)
17		5F-4 (CK lighting)
18		6F-1 (CK lighting)
19		6F-2 (Spare)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

20		6F-3 (LM-10)
21		6F-4 (Tower-1 7 berth)

(2) LT Panel – 2:

Make: Popular Power Control, Rating of Incomer ACB: 1000A, Rating of Bus coupler ACB: 1000A, Rating of Outgoing (SFU) Feeder: 125A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel 2	1F-1 to 1F-5.(Spare)
2		2F-1 to 2F-5.(Spare)
3		3F-1 to 3F-5.(Spare)
4		4F-1 (I/c metering feeder)
5		4F-2 (ACB)
6		4F-3 (Relay feeder)
7		5F-2 (Bus coupler ACB)
8		6F-1 (I/c metering feeder)
9		6F-2 (ACB)
10		6F-3 (Relay feeder)
11		7F-1 to 7F-3 (Spare feeder)
12		7F-4 (S/s Light)
13		7F-5 (Spare feeder)
14		8F-1 To 8F-5 (Spare feeder)
15		9F-1 and 9F-2 (Spare feeder)
16		9F-3 (LM Tower 1-7)
17		9F-4 and 9F-5 (Spare feeder)

➤ Substation Lighting & Miscellaneous:

Total tube light	17 Nos.
Exhaust Fan	6 No.
Fire Extinguisher	1 No
First Aid box	1 No

(5) 40 Hectare Substation:

➤ The 11/0.433kV Substation has 4 VCB Panels. The details of the VCB Panel installation are as below:

Circuit Breaker Type	Power supply from/to	Remark
I/c-1	66kV Substation	All VCB feeders have energy meter installed.
O/G-1	Transformer – 1	
O/G-2	Transformer – 2	
I/c-2	66kV Substation	

➤ There are 2 ONAN, 1000kVA, 11/0.433 kV Distribution Transformer of 'Voltamp' make.

➤ The details of LT distribution panel are as below:

(1) LT Panel – 1:

Rating of Incomer ACB: 1600A, Rating of Bus coupler ACB: 1600A, Rating of Outgoing (SFU) Feeder: 250A/125A

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-1	1F-1. (LP-1)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

2		1F-2. (LP-2)
3		1F-3. (Weigh Bridge-9)
4		1F-4. (West Gate-2)
5		1F-5. (34 Hector DB side HM)
6		2F-1. (Metering feeder)
7		2F-2. (ACB)
8		3F-1. (Metering feeder)
9		3F-2. (ACB B/C)
10		4F-1. (Metering feeder)
11		4F-2. (ACB I/C)
12		5F-1. (LP-3)
13		5F-2. (Vacant)
14		5F-3 (Spare)
15		5F-4 (West Gate-3)

(2) LT Panel – 2:

Rating of Incomer ACB: 1600A, Rating of Bus coupler ACB: 1600A, Rating of Outgoing (SFU) Feeder: 400A/250A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-2	Metering and ACB Feeder
2		Energy meter feeder
3		400 A MCCB
4		Tag not Available
5		400 A MCCB
6		250 A MCCB (No tag Available)

➤ There is 1 no. 125kVAr, APFC Panel which is not in service.

➤ Substation Lighting & Miscellaneous:

Total tube light	16 Nos.
LED Flood Light	1 No. 250W LED flood light
Fire Extinguisher	2 Nos.
First Aid box	1 No
Exhaust Fan	4 Nos.
Industrial Fan	2 Nos.

(6) **Old NDA Substation:**

➤ The 11/0.433kV Substation has 6 way RMU which comprise of 2 Incomer, 2 Transformer Feeder and 2 Outgoing Feeder. The details of the RMU installation is as below:

Circuit Breaker No.	Type of Feeder	Power supply from/to
1	Incomer	From 66 kV Substation
2	Incomer	Spare
3	O/G Feeder	Spare
4	O/G Feeder	Spare
5	Transformer Feeder	Spare
6	Transformer Feeder	Transformer – 1

➤ There is 2 ONAN, 1500kVA, 11/0.433 kV Distribution Transformer of 'Voltamp' make and out of which one Transformer is out of Service.

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

- The details of LT distribution panel are as below:

(1) LT Panel – 1:

Rating of Incomer ACB: 1000A.

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-1	1F-1 Metering feeder
2		1F-2 ACB-1000 A
3		1F-3 Relay feeder
4		2F-1 Not in Service
5		2F-2 LP-7
6		2F-3 Not in Service
7		2F-4 Not in Service
8		2F-5 Tag not available
9		3F-1 Not in Service
10		3F-2 Substation power
11		3F-3 Godown no.19
12		3F-4 Godown no. 22
13		3F-5 Godown no. 23
14		4F-1 to 4F-5 (Not in used)

- Substation Lighting & Miscellaneous:

Total tube light	14 Nos.
LED Flood Light	1 No. 250W LED flood light
Fire Extinguisher	1 No.
First Aid box	1 No.
Exhaust Fan	4 Nos.

- The cable trench inside the Substation is open and needs to be covered by chequered plates.

(7) **New NDA Substation:**

- The 11/0.433kV Substation has 6 way RMU of 'Siemens' make. The details of the RMU installation is as below:

Circuit Breaker No.	Type of Feeder	Power supply from/to
1	Incomer	From 66kV Substation
2	O/G Feeder	Transformer-1
3	O/G Feeder	Transformer-2
4	O/G Feeder	Spare
5	Incomer	From 66kV Substation (Off Position)
6	O/G Feeder	Godown no. 34 (Bagging Plant)

- There are 2 ONAN, 1000kVA, 11/0.433 kV Distribution Transformer of 'Danke' make out of which one Transformer is working and the other is out of Service.
- The details of LT distribution panel are as below:
- (1) LT Panel – 1:
- Incomer/Bus coupler ACB Rating: 800A

Sr. No.	Panel Tag	Feeder Tag
1	LT Panel-1	1F-1 Patel Weighbridge
2		1F-2 Load Point-2

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

3		1F-3	ACB
4		1F-4	
5		2F-1	
6		2F-2	
7		2F-3	Bus Coupler ACB
8		3F-1	HM 19 to 26
9		3F-2	Load Point-1
10		3F-3	I/c ACB

(2) LT Panel – 2:

Incomer/Bus coupler ACB Rating: 800A

1	LT Panel-2	B/C
2		I/c ACB
3		SFU (125A) HM-15 to 18
4		SFU (125A) HM-6
5		3
6		HM-17 to 18
7		HM-15 to 16
8		6 to 9
9		HM-13 and 14

➤ Substation Lighting & Miscellaneous:

Total tube light	8 Nos.
LED Flood Light	1 No. 250W LED flood light
Fire Extinguisher	2 No. (Empty)
First Aid box	1 No.
Exhaust Fan	6 Nos.

(8) **Isolator Room:**

➤ The Isolator room has 6 way RMU which comprise of 2 Incomer, 2 Transformer Feeder and 2 Outgoing Feeder. The details of the RMU installation is as below:

Circuit Breaker No.	Type of Feeder	Power supply from/to
1	Incomer	7 th
2	Incomer	6 th
3	O/G Feeder	Spare
4	O/G Feeder	TIL Crane no. 10
5	Transformer Feeder	TIL Crane no. 11
6	Transformer Feeder	TIL Crane no. 12

➤ Isolator Room's 11kV Cable entry/exit hole in wall is not properly closed, needs to close the hole properly through Civil Engineering Department.

➤ Substation Lighting & Miscellaneous:

LED Flood Light	1 No. 250W LED flood light
Fire Extinguisher	Not Available
First Aid box	Not Available

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Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Annexure-II

The details assets/equipment from zero panel to Berth no. 10

Sr. No	Area / Location	Qty.
01	40 Hector	20 No. High Mast Towers
02	Cargo Jetty Wharf area (Berth No:-1 to 5)	6 No. High Mast, 9 nos. lattice type Towers
03	7 th Berth Area	7 No. Lattice Type Tower, Located on wharf area (Berth No: - 7 to 10), 14 No. Lattice Tower on back area
04	6 th Berth Area	8 No. lattice Type Tower
05	OLD NDA area	9 No. Lattice Type Towers.
06	West Gate area.	02 No's High Mast Towers
07	West Gate-I	01 No. High Mast Towers
08	North Gate	01 No. High Mast Towers
09	66 Hector Area	34 No. High Mast
10	8 th Berth Back Up area	06 No. High Mast
11	Godown	34 Nos.
12	Street light poles	West gate-1 2 & 3 From berth no 13 to Jeera point
13	Gate Office	North Gate, West Gate1,2 &3
14	Office	ATM Office , Traffic Shed Office at all berth, Fire Brigade office etc
15	Toilet Block	All Toilet Blocks & Rest Rooms at berth area & back Up area
16	Weigh Bridge	All Weigh Bridge form zero Panel to 10 an its Berth back Up area

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Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Annexure-III

The details transformers from zero panel to Berth no 10

Sr. No	Area / Location	Qty.	Age	Location
1	Transformer 1500 KVA 11/.433KV Voltamp make Sr. No. 4856/1	10/98	23 Yrs	Cargo Jetty Substation
2	Transformer 1500 KVA 11/.433KV Voltamp make Sr. No. 4856/2	10/98	23 Yrs	Cargo Jetty Substation
3	Transformer 1500 KVA 11/.433KV Voltamp make Sr. No. 4856/5	10/98	23 Yrs	Cargo Jetty Substation
4	Transformer 1000 KVA 11/.433KV Danke make Sr. No. DP136/1	06/04	17 Yrs	Cargo Jetty Substation
5	Transformer 1500KVA 11/.433KV Voltamp make Sr. No. 4856/4	10/98	23 Yrs	TS -4 Sub station
6	Transformer 1500KVA 11/.433KV Voltamp make Sr. No. 4856/3	10/98	23 Yrs	TS -4 Sub station
7	Transformer 1000KVA 11/.433KV PETSON make Sr. No. 4171/2	09/03	18 Yrs	6th Berth Substation
8	Transformer 750 KVA 11/.433KV SIEMENS make Sr. No. 1421/Z	09/03	18 Yrs	6th Berth Substation
9	Transformer 500 KVA 11/.433KV Power Volt make Sr. No.	03/1993	28 Yrs	7th Berth Substation
10	Transformer 500 KVA 11/.433KV Kirloskar make Sr. No. 99P/1000977	04/1990	28 Yrs	7th Berth Substation
11	Transformer 1000KVA 11/.433KV Voltamp make Sr. No. 41042/1	05/2013	08 Yrs	40 Hector Substation
12	Transformer 1000KVA 11/.433KV Voltamp make Sr. No. 41042/2	05/2013	08 Yrs	40 Hector Substation
13	Transformer 1500KVA 11/.433KV Voltamp make Sr. No. 4856/5	10/98	23 Yrs	Old NDA Substation
14	Transformer 1000KVA 11/.433KV PETSON make Sr. No. 4171/1	09/03	18 Yrs	Old NDA Substation
15	Transformer 1000KVA 11/.433KV Danke make Sr. No. 135/01	2005	16 Yrs	NEW NDA Substation
16	Transformer 1000KVA 11/.433KV Danke make Sr. No. 135/02	2005	16 Yrs	NEW NDA Substation

DG set Available from North Gate to 10th Berth

Sr no	Area / Location	Location	Qty.	Make
1	30KVA	North Gate	1no	Sonalika
2	30KVA	West Gate-1	1no	Sonalika
3	30KVA	West Gate-2	1no	Sonalika
4	30KVA	West Gate-2	1no	Sonalika

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Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

ANNEXURE-IV

The tentative details of assets/equipments from 13 berth to 16 berth areas

Sr. No.	Description	QTY	Unit
1	13 BERTH SUBSTATIONS	1	No.
2	OFFICES	5	No.
3	WEIGHT BRIDGE	5	No.
4	GODOWNS	2	No.
5	15 BERTH SUBSTATIONS	1	No.
6	TOILET BLOCKS	3	No.
7	GATES	2	No.
8	ALL HIGH MAST 25-30 meter Height	29	No.
9	MINI MAST 20 meter height	20	No.
10	AREA LIGHTING OF VERIOUS OFFICES/GATES/JETTYS		

Sr. no	Description	Capacity	Make	Qty.
1	RMU, 3 Way	11 KV, 630 Amps	ABB	1
2	RMU, 5 Way	11 KV, 630 Amps	ABB	1
3	Transformer	11/0.433 KV, 630 KVA	Hind Electrical	1
4	LT Panel, 16 Way	1250 Amps	OHM Energy Management Pvt. Ltd.	1
5	AMF Panel	250 Amps	Siddhi Vinayak	1
6	DG Set	200 KVA	Sudhir	1

Sr. no	Description	Capacity	Make	Qty.
1	Transformer (Dry Type)	11/0.433 KV 630 KVA	Voltamp	1
2	RMU	630 Amp	Siemens	1
3	VCB	1250 Amp	ABB	1
4	Metering Panel	11 KV	Expel Prosys	1
5	LT Panel	11 KV, 1250 Amps	OHM Energy Management Pvt. Ltd.	1
6	DG Set	200 KVA	Volvo Penta	1
Note: - The above equipment's details are tentative. However scope of equipment's (under AMC) covers all the High mast & Mini mast Lighting and HT/LT.				

Note:

Any left out assets/equipment/area required to be maintained and any new area/equipment/asset procured during the currency of the contract are required to be maintained and operated by the contractor under this contract.

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Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Section VI
"PART A-1"

Name of Work: Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

PART "A-1" (Maintenance Contract)

Sr. no	Description	Qty.	Rate	Unit	Amount
1	Providing manpower to undertake breakdown maintenance of 11/0.44KV substation along with electrical installations and its equipment, and maintaining uninterrupted power supply at inside cargo jetty from berth no 1 to 10 including all non-residential buildings, Pump house etc. as per the enclosed Annexure-I along with Maintenance of industrial lighting system i.e., existing flood lighting, street lighting shed/bay lighting etc., provided in various transit sheds, Godwon's, High Masts tower RCC/ Rail/ Tubular Poles, Lattice Type Towers, Buildings/ structures etc. as per Annexure-II situated inside cargo jetty area ncluding road lighting From Zero Port to 10 Berth duly monitoring the fuse off calls of the above areas by maintaining a complaint register round the clock including maintenance of LT/ HT UG lines complete as per the following work schedules and as per the scope of work.	24		Month	
2	Providing Vehicle for transportation of material / execution of work & shifting manpower from one site to another site inside cargo jetty including driver.				
	a) Tata Yodha / Mahindra Maxi truck Utility type vehicle of model 2024 inclusive fuel & driver round the clock for the use of monitoring maintenance works 24 hrs interval as indicated in the scope of work.	24		Month	
	b) Mahindra Bolero 5 seater type vehicle of model 2024 inclusive fuel & driver round the clock for the use of monitoring of lighting works 12 hrs intervals as indicated in the scope of work.	24		Month	
	c) TRUCK MOUNTED HYDRAULIC SKY LIFT for the use of Repairing inside Godown lighting, lighting tower works etc. for 24 hrs intervals as indicated in the scope of work.	24		Month	
TOTAL OF PART A-1					

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Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

"PART A-2"

Name of Work: Operation & Maintenance Contract of Industrial Lighting, open plots, jetty area, Godowns, Weight Bridges, Pump House and Height Mast & Mini Mast, port gates including maintenance of 11/0.433KV Substation inside Cargo Jetty area at Berth No. 13 to 16 area.

PART "A(Maintenance Contract)

Sr. no	Description	Qty.	Rate	Unit	Amount
1	Providing manpower to undertake Operation, periodical, Preventive and breakdown maintenance of 11/0.44KV substation along with electrical installations and its equipment, and maintaining uninterrupted power supply from Berth No. 13 to Berth No. 16 including all non-residential buildings, Pump house etc. as per the enclosed Annexure-I along with Maintenance of industrial lighting system .e., existing flood lighting, High Mast & Mini Mast lighting, Godown lighting etc., provided in various transit s sheds, Godwon's, High Masts tower RCC/ Rail/ Tubular Poles, Buildings/ structures etc. as per Annexure-II situated inside cargo jetty area including road lighting From Berth No. 13 to Berth No. 16 duly monitoring the fuse off calls of the above areas by by maintaining a complaint register round the clock including maintenance of LT/ HT UG lines complete as per the following work schedules and as per the scope of work.	24		Month	
2	Providing Vehicle for transportation of material / execution of work & shifting manpower from one site to another site inside cargo jetty including driver.				
a)	Jeep Mahindra 5 seater Utility type vehicle of model 2024 inclusive fuel & driver round the clock for the use of monitoring maintenance works 24 hrs interval as indicated in the scope of work.	24		Month	
TOTAL OF PART A-2					

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Contractor**

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

PART "B" (Maintenance Spares For Part 1 & 2)

Sr. no	Description	Qty. of Part-1	Qty. of Part-2	Total qty.	Rate	Unit	Amount
1	Supply of Wire Rope as per tech Sp no 1 Suspension Wire Rope: (i) 8mm dia. (ii) 10mm dia AISI 316 grade with 7/19 construction of Make: Usha Martin / Bharat Wire Rope	2000 1000	500 500	2500 1500		Mtr Mtr	
2	Supply of Electrical Hoist trailing round Cable (5 core copper flexible round cable) as per technical Sp no 2	600	600	1200		Mtr.	
3	Supply of Sustaining type double drum double shaft winch suitable for High mast tower meeting the Technical specification no 3	15	5	20		No.	
4	Supply of Power tool suitable for the existing HM & above winch supplied in item no 3 the motor should be supplied along with sprocket & chain as per tech Sp no 4	20	10	30		No	
5	Supply of following type of Distribution Boards as per Technical Specification No 5. (i) SP&N Double door IP 42 6 Way . (ii) TPN Double Door IP 42 DB 4 ways (iii) TPN Double Door IP 42 DB 8 ways	10 05 05	5 5 5	15 10 10		No No. No.	
6	Supply of following type of 4 pole MCCBs, as per Technical Specification No. 6 (i) 40Amps, 415V, 16KA, 50Hz. (ii) 63Amps 415V 16KA 50Hz. (iii) 100 Amps, 415 volts, 25KA, 50 Hz (iv) 125 Amps, 415 volts, 25KA, 50 Hz. (v) 160Amps, 415 Volts, 25KA, 50 Hz (vi) 250Amps,415 Volts, 35KA, 50 Hz.	40 30 15 20 10 20	10 20 5 5 5 5	50 50 20 25 15 25		No No. No. No No. No	
7	Supply of following type of MCBs as per Technical Specification No. 07 (i) SP MCB, 0-32 Amps, "C" type,230Volts. (ii) DP MCB, 0-32 Amps, "C" type,230Volts. (iii) 4 pole, 0-32 Amps, "C" type, 415 Volts. (iv) 4 pole, 40 Amps, "C" type, 415 Volts. (iii) 4 pole, 63 Amps, "C" type, 415 Volts.	35 20 25 25 30	35 20 25 25 30	70 40 50 50 60		No. No. No. No. No.	
8	Supply of Contactor, 70A capacity, 240 Volt with "NO" & "NC" Contacts of make L&T ML-70	36	25	61		No.	
9	Supply of 240V Coil suitable for Contactor of make L&T /Havell's	50	25	75		No	
10	Time Switch, 240V AC /28V DC, 16A make L&T/ Indo Kopp	10	10	20		No	
11	Supply of Switch disconnector fuse unit & as per Technical Specification No. 8 (i) FN 125 A Capacity (ii) FN 200 A Capacity (ii) FN 250 A Capacity	10 05 05	05 5 5	15 10 10		No No No	
12	Supply of surface mounting type Single Pole & Neutral switch fuse units/fuse switches with Rewire able Porcelain Fuse units. a) 32A 240V.	20	10	30		No	
13	Supply of surface mounting type Triple Pole, 415V AC, 50 Hz with Neutral Link switch fuse units/fuse switches with Rewire able Porcelain Fuse units a) 100A, 415V b) 250A' 415V	10 25	10 20	20 45		No No	
14	Supply of surface mounting type On load						

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

	Changeover Switch , housed in sheet steel enclosure with front access having side handle operation a) 63A, 415V b) 200A' 415V	10 15	2 2	12 17		No No	
15	Supply at site 4 Core LT armoured aluminium conductor XLPE cable of 1.1KV grade of the following type & size as per IS: 7098 (Part-I)1985 and as per technical specification no 9 (i) 4 Core X 25 sq. mm. (ii) 4 Core X 70 sq. mm. (iii) 4 Core X 120 sq. mm	2000 1500 1500	1000 500 500	3000 2000 2000		Mtr Mtr Mtr	
16	Supply of Energy efficient 40W LED Tube Light Fixture with complete accessories as per technical specification no 10. a) 40 watt LED Tube light Fixture.	900	500	1400		No	
17	Supply of Energy Efficient 120W LED lamp street light fixture with Complete accessories as per Tech Spec No . 11. a) 120Watt Road way Luminary.	30	25	55		No	
18	Supply of Energy Efficient LED flood light fixture with Complete accessories as per Tech Spec No . 12. a) 250 Watt LED Flood Light Luminary	150	50	200		No	
19	Supply of GI Strips Connecting earth station to the equipment as per Tech Specification No . 13. (i) 12 SWG GI earthing wire. (ii) G.I strip 50 X 6 mm thick.	1000 500	500 500	1500 1000		Mtr Mtr	
20	Supply of following type of supplied ceiling fan as per Tech Spec No. 14 (i) 1200 mm sweep ceiling fan (i) 1400 mm sweep ceiling fan	100 100	50 50	150 150		No. No.	
21	Supply at site 9 Meter long with detachable double Arm Octagonal type Pole as per Technical Specification No. 15	25	0	25		No.	
22	Supply of heat shrink straight through Joint kit of 11KV XLPE 3 Core Aluminium armoured cable, as per Technical Specification No. 16 3C X 95 SQMM 3C X 150 SQMM 3C X 300 SQMM 3c x 400S SQ MM	20 30 20 10	20 20 20 20	40 50 40 30		No. No. No. No.	
23	Supply of heat shrink End termination Joint kit of 11KV XLPE 3 Core Aluminium armoured cable, as per Technical Specification No. 17 3C X 150 SQMM 3C X 300 SQMM 3c x 400S SQ MM	10 08 05	05 04 03	15 12 08		No. No. No	
24	Supply of heat shrink straight through Joint Kit suitable for L.T. 1.1 KV XLPE 4 Core armoured, 1. 4CX 25 SQMM 2. 4CX 50 SQMM 3. 4CX 70 SQMM 4. 4CX 120 SQMM 5. 4CX 185 SQMM 6. 4CX 300 SQMM	25 25 20 20 20 20	15 15 10 10 10 10	40 40 30 30 30 30		No. No. No. No. No. No.	

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Sr no	Description	Qty of Part-1	Qty of Part-2	Total qty	Rate	Unit	Amount
A	Supply of following electrical accessories of approved make as directed by Engineer-in-charge.						
1	6A 1-way piano switch	500	100	600		No	
2	16A 1-way piano switch	60	50	110		No	
3	6A 5Pin Socket	600	50	650		No	
4	16/6A- 6pin Socket	120	100	220		No	
5	3/5Pin 5A Top 230/250V	150	50	200		No	
6	3/5Pin 15A Top 230/250V	48	100	148		No	
7	16/6A 250V Switch socket combined with box	48	50	98		No	
8	16/6A 5in-one combined with box	50	50	100		No	
9	32A 2P w/neon indicator surface mounted	50	25	75		No	
10	Angle holder	50	25	75		No	
11	ELCB 40A, 30mA DP	30	20	50		No	
12	Ceiling fan Oil filled Capacitor (2.5/4mfd)	50	50	100		No	
13	Single module step cut regulator	70	50	120		No	
14	Surface mounted mini fan Regulator	100	25	125		No	
15	Water proof Tape	48	25	73		No	
16	1 /2 / 3 /4 way Gang Box	80	40	120		No	
17	1 switch 1 Socket Gang box	20	10	30		No	
18	3 Switch 3Socket Gang Box (computer point)	20	10	30		No	
19	15 A 1way Gang Box (for A/c)	20	10	30		No	
20	15A 2 way Gang Box (for A/c)	20	10	30		No	
21	Hot press moulded SMC junction box with outer Dia 230x170x105 with left hinged door	50	20	70		No	
22	1.5 Sq mm PVC copper wire (FRLS coil of 90mtrs)	12	10	22		No	
23	2.5 Sq mm PVC Copper wire (FRLS coil of 90mtrs)	12	10	22		No	
24	4 Sq mm PVC Copper wire (FRLS coil of 90mtrs)	12	10	22		No	
25	4 Sq mm PVC insulated, PVC sheathed Al Conductor service wire(90mtr coil)	12	10	22		No	
26	6Sq mm PVC insulated, PVC sheathed Al Conductor service wire (90mtr coil)	12	10	22		No	
27	1.5 sq mm x 4 core PVC Round Copper Flexible Cable of 1.1KV voltage grade (90mtrs Roll)	12	10	22		No	
28	2.5 sq mm x 4 core PVC Round Copper Flexible Cable of 1.1KV grade (90mtrs Roll)	12	10	22		No	
29	4 sq mm x 4 core PVC Round Copper Flexible Cable of 1.1KV grade (90mtrs Roll))	6	06	12		No	
30	6 Sq mm PVC Copper wire (FRLS coil of 90mtrs)	06	06	12		No	
31	Medium class round pipe 20mm size (standard length)	500	200	700		No	
32	Elbow /Tee & required accessories such as clamps ,screws etc. of 20mm size of medium class round pipe	300	100	400		No	
33	PVC Saddle/ PVC Clip, of Size: 20 To 50 Mm (20mm, 25mm,40mm & 50mm)	(4 Pack)	(4 Pack)	8		Pack	
34	Aluminium Ferrol of size from 10 Sq mm to 240 Sq mm (16,25,35,70,95,120,150,240, 300)	(9 Pack)	(9 Pack)	18		Pack	
35	Aluminium cable Lug of size from 10 Sq mm to 240 Sq mm (16,25,35,70,95,120,150,240, 300)	(9 Pack)	(9 Pack)	18		Pack	
36	Battery 180 AH ,Exide , Amaron, luminous	06	04	10		Nos	
37	100 mm Dia HDPE , Class PE-100 pipe having 10 KG/cm2 pressure along suitable coupler	500	200	700		Mtr	
38	100 mm dia Heavy duty Class –B GI Pipe along suitable coupler	100	50	150		Mtr	
39	Enamel paint (4Ltr) Tin Grey/ Black/ Silver	10	10	20		No	
TOTAL Of Part B							

PART – C (Miscellaneous Work)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Sr no	Description	Qty of Part-1	Qty of Part-2	Total qty	Rate	Unit	Amount
1	Dismantling and re-erection of 30 mtrs. High Mast Tower including lantern ring and lighting fixtures as per technical specification No. 1.	30	10	40		No.	
2	Laying of 3.5/4.0 Core LT armoured aluminium conductor XLPE cable of 1.1KV grade of the following type & size on wall through saddles & clamps as per Technical Spec No. 2 a) up to 3.5/4.0 core x 50 Sq.mm	1500	500	2000		Mtr	
3	Laying of all size of H.T/ L.T cable through Road crossing / cement concrete flooring by auguring method as per technical Specification no 3	1000	500	1500		Mtr	
4	Laying of LT armoured aluminium conductor XLPE cable of 1.1kv grade of size up to 150 Sq.mm through excavation in Hard/Soft Soil as per Technical Specification No. 4	1000	500	1500		Mtr	
5	Rewinding of Exhaust / Wall mounting Fan of 450mm to 750mm sweep with super enamelled copper winding wire as per Technical Spec No. 5. a) Exhaust Fan / Wall mounting Fan of all size.	25	25	50		No.	
6	Providing & fixing chemical treated back filled compound earthing, pipe In Pipe for 2000 Amps (LT) capacity, complete with civil work as per Tech Specification No:- 6.	30	25	55		No	
7	Laying, connecting of GI Strips Connecting earth station to the equipment as directed including all labour and material as per Technical Spec No. 7 (i) 12 SWG GI earthing wire. (ii) G.I strip 40 X6 mm thick.	1000 500	600 1000	1600 1500		Mtr Mtr	
8	Erection of supplied 9 Meter long pole along with civil work as per Technical Specification No. 8	25	0	25		No	
9	Hiring of Vehicle as under for a period to under go the work (i) Hiring of 30 meter height Telescopic mobile harbour crane for 8 hrs interval (1 Visit) for maintenance of high mast tower. (ii) Hiring of hydra for 4 hrs interval (1 visit) for maintenance of high mast tower. (iii) Hiring of pay loader/ excavator for 4 hrs interval (1 visit) for maintenance of high mast tower.	10 24 24	8 8 10	18 32 48		Visit Visit Visit	
TOTAL of Part –C							

Seal & Sign of
Contractor

Sd/-
Superintending Engineer (E)
Deendayal Port Authority

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

Section VII

Drawings

Not applicable

**Signature & Seal
of Contractor**

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION VIII

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 "Operation and maintenance contract of industrial light at cargo handling area, open plots, jetty area, godowns, street lighting connecting to port gates including maintenance of 11/0.433 KV substation inside cargo jetty area from zero pan to berth no. 10 and 13th berth to 16th berth " and inspected the site and other issues related to tender to my satisfaction.

Seal, name and signature of the bidder	Name, designation and signature of DPA representative who assisted bidder during site visit.	Seal, name and signature of AXEN (E)

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION IX

Approved Make List for Electrical Items

Sr. No.	Description	Recommended Makes
1	HT VCB	SIEMENS / CROMPTON GREAVES/ABB/Schneider
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	L&T/ENERCON/SECURE/L&G/ RISHABH

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

	METERS	
19	ANALOG VOLT/AMPARE METER FOR DISTRIBUTION PANELS AND FEEDER PILLERS	RISHABH/AE/ENERCON/L&T
20	SLECTOR 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/

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

		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.

**Signature & Seal
of Contractor**

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

SECTION X

**Maintenance
Schedule
for
11KV Substations**

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

MAINTENANCE SCHEDULES TO BE FOLLOWED BY THE CONTRACATOR DURING THE AMC PERIOD

DAILY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
Transformer			
1.	The contractor should take round in day shift for any abnormalities in transformers		
2	The contractor should ensure the condition of Silica Gel; if it is turned pink replacement should be carried out immediately, after informing Electrical Engineer In-charge.		
3	The contractor should monitor Oil Level of the transformer in day shift duty		
4	The reading of MOG (Magnetic Oil Gage) of main tank conservator tank should be checked. In case of unsatisfactory oil level in the MOG, oil is to be filled in transformer.		
5	Transformer tank to be checked for oil leakage. If oil leakage is found, action should be taken to plug the leakage.		
6	The contractor should record Oil Temperature, Winding Temperature and Oil Level Once in every hour in the substation Log book.		
7	Contractor should ensure that there should not be any kind of oil leakage from any part of the transformer. If observed immediately it is to be informed to the Engineer In-Charge and rectification should be done immediately.		
8	Tap Position		
9	Monitoring of Voltage/Load		
VCB/OCB , LT Panel , LDB			
1	Monitoring of Terminal connection on HT & LT side.		
2	Checking of cable boxes and gasketed joint.		
3	Checking of safety devices like Relays, Fuses etc for their proper functioning accuracy.		

Note :- Separate log book should be kept to maintain the transformer in their respective substation daily and duly signed by the staff undergoing the above maintenance and the same should be verified by site in charge.

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

DAILY MAINTENANCE

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
General			
1	General cleaning in the surrounding areas of transformer if dust/Spider web or any other foreign particles found should be cleaned immediately		
2	Checking of battery charger and battery condition of protective system batteries, recording the relevant parameters.		
3	Checking cleaning of L.T distribution panel and its accessories and simultaneously replacement of spares required in the panel which should be properly noted with the name of the person involved in the work		
4	Updating and maintenance of all other registers.		
5	Contractor should monitor voltage/Load current at every hour of day shift and should log in a separate register.		
6	General checking of all the Bus Bars for abnormalities like spark, Heat up etc...		
7	To attend the complaint regarding Substations		
8	The contractor has to maintain daily log book for any attention of sub-station & electrical installation either a routine measure or for rectification of a breakdown/failure and the same should be verified by DPA representative.		
9	Attending to any other work as entrusted.		
10	Cleaning and sweeping of substation In morning hours and evening hours		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

WEEKLY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
<u>H.T. PANELS</u>			
1	Check all internal fuses		
2	Check all measuring instruments		
3	Check Relays Operation		
4	Cleaning of panels		
5	Check all indication lamps		
<u>L.T. PANELS</u>			
1	Check all fuses		
2	Check all measuring instruments		
3	Check indication lamps		
4	Check Relays Operation		
5	Check & tighten control wire connection		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

WEEKLY MAINTENANCE OF BATTERY CHARGER PANEL / D.G Set BATTERY

Location _____

Sr. No.	Activities	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
1	Check all cable connections		
2	Check all fuses		
3	Check all indications		
4	Check charging circuit		
5	Check inter links of Batteries		
6	Check solution level of Batteries		
7	Check all Sp. Gravity of Batteries		

Sr. No.	Sp. Gravity of batteries		Solution Level		Description of works
1	Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance	Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance	

Charging Voltage: _____

Charging Current: _____

Name and signature of technicians of the contractor who attended above work		
1		
2		

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

MONTHLY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
TRANSFORMERS			
1	Check all cable terminal connections		
2	Check oil leaks		
3	Check oil level		
4	Check oil breather condition		
5	Check expansion vent diaphragm		
5	Check alarm/trip circuits		
6	Cleaning of transformer		
7	Check silica gel condition		
8	Check any unusual sound		
9	Check all measures instruments		
10	Check off load tap changer mechanism		
11	Checking of oil of BDV		
12	Reading of Magnetic Oil Gage of main tank conservator		
13	Record Oil Temperature, Winding Temperature and Oil Level Once in every hour in the substation Log book		
14	General cleaning in the surrounding areas of transformer if dust/Spider web or any other foreign particles found should be cleaned immediately.		
15	Checking for insulation leakage and checking of CT, PT and bus bars if required.		
16	The oil level in oil cap under silica gel breather must be checked in one month interval. If it is found the transformer oil inside the cup comes below the specified level, oil to be top up as per specified level.		
17	Breathing holes in silica gel breather should be checked monthly and properly cleaned if required for breathing action.		
18	Check the transformer Marshaling Box		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

MONTHLY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No .	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
<u>BATTERIES</u>			
1	Battery charger panel testing and recording		
2	Routine checking of battery/cell for charging/discharging and rectification if abnormalities found.		
3	Attending of battery/cell for faulty/abnormalities.		
4	Drying and cleaning of battery/cell		
5	Checking of battery charger and battery condition of protective system batteries, recording the relevant parameters		
<u>L.T. PANELS</u>			
1	Check all cable connections		
2	Check all fuses		
3	Check all measuring instruments		
4	Check indication lamps		
5	Check Relays Operation		
6	Check Contactors Operation		
7	Check P.T, and C.T.'S		
8	Check all support insulators		
9	Check panel earthing		
10	Check all bolts and nuts		
11	Cleaning of panels		
<u>H.T. PANELS</u>			
1	Check all cable connections		
2	Check all internal fuses		
3	Check all measuring instruments		
4	Check all relays operation		
5	Check all contactors operation		
6	Check Isolators operating mechanism		
7	Check panel earthing		
8	Check all support insulators		
9	Check all bolt and nuts		
10	Check CTs , PTs, if required		

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

MONTHLY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
1	Cleaning of panels		
2	Cleaning of P.T. and C.T.'S if required		
3	Check panel Heaters		
4	Check all indication lamps		
H.T.BREAKERS			
1	Check all connections		
2	Check all indication lamps		
3	Check control unit		
4	Check protection control		
5	Check contacts		
6	Check support Insulators		
7	Check closing/tripping circuit		
8	Check spring charging system		
9	Check limit switch		
10	Check all bolt and nuts		
11	Check earthing system		
12	Cleaning of the breaker		
13	Check inter-lock system		
L.T. BREAKERS			
1	Check all connections		
2	Check all indication lamps		
3	Check control circuit		
4	Check protection circuit		
5	Check main contacts		
6	Check closing/tripping circuit		
7	Check charging mechanism		
8	Check all bolt and nuts		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

MONTHLY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
1	Check earthing system		
2	Cleaning of the breaker		
3	Oiling and greasing		
Other activities			
1	All the panel, electrical installations, substations and electrical equipment should be appropriately cleaned		
2	General checking of safety devices like contactor, output line, Fuses etc. and rectification of the same		
3	To check the fuses and other panel components.		
4	To Check controls circuit of VCB, OCB, ACB		
5	To check the S/s area Lightings and same should be replaced the faulty Tube Rod, Capacitor, Choke as & when required and made functionally operation.		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SIX MONTHLY MAINTENANCE SCHEDULE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
1	Discharging of Batteries once in six months.		
2	Earth pit resistance has to be checked for all earth pits.		
3	Measurement of earth resistance includes removing of earth pit chamber covers, isolation of main earth strips and connected strips, recording of value, reconnection of disconnected strips, replacement of corroded ones by GI coated fasteners items and emerying of strips, watering of earth pits, putting back earth chamber cover to the original position, marking of earth pits nomenclature etc. A detailed Test report should be submitted to the Electrical Engineer after completion of work and detailed history record has to be maintained at work place.		
4	Oil BDV testing of Transformers oil and updating of relevant records.		
5	Earth resistance measurement of all the Earth electrodes at no extra cost, updating of relevant records.		
6	Preventive maintenance of UPS including back up testing		
7	Contractor should check Tripping/Closing mechanism of Breakers		
8	To check all the Circuit Breakers connected with the switchgear panels and their operating mechanism/contacts etc. and make them in perfect condition.		
9	To check the Functioning of, Winding Temperature Alarm & Settings , Oil Temperature Alarm & Settings, Bucholz Relay alarm setting, Oil BDV , Measurement of Earth Resistance, Operation of OLTC, Topping of Transformer Oil(if required) and submit the Test Report to take action by DPA as per IS: 2026 III.		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

YEARLY MAINTENANCE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
1	Perform all daily, weekly, monthly and Half Yearly maintenance schedules.		
2	Testing and calibration of all relays should be done as per IS 3842 and submit the report.		
3	Overhauling of all breaker and other parameters sustainability		
4	Filtration of transformer oil of all transformers confirming to IS 1866. Filtered oil has to be got tested by contractor and contract is required to submit the test certificate for BDV of oil.		
5	Transformer maintenance should be carried out as per IS-10028 and IS-2026, as possible as applicable.		
6	Maintenance of all earth pits and check and maintain value to all earthing by one ohm confirming to IS 3043 as possible as applicable		
7	Meggering of all LT/HT cables and value should be maintained as per IS standard, S/s end only		
8	Checking of all insulators and their connections for proper tightening and cleaning.		
9	Cleaning of all electrical installations.		
10	Test to be carried out in respect of Transformers: 1) Transfer oil test 2) Dissolved Gs Analysis 3) Dielectric Test. 4) Bucholz alarm & tripping ckt. 5) MCB Test. 6) PI Test. All test should be carried out as per the relevant IS standards to the satisfaction of the Engineer in Charge. Detailed test reports along with recommendations, remedies, and repairs needed if any maintenance/corrective actions required if any.		
11	Cleaning of all marshalling boxes from inside		
12	All illumination, space heaters to be checked for proper functioning		
13	Checking of all terminal connections of control and relay wiring and tightening		
14	Cleaning of all the relays, alarms and control switches along with their circuit with appropriate agents.		

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

YEARLY MAINTENANCE

Location of sub-station: _____

Sr. No.	Description	Remarks	
		Condition/parameters before commencing maintenance	Condition/parameters after completion of maintenance
15	The pockets for OTI (Oil Temperature Indicator) and WTI (Winding Temperature Indicator) on the transformer top cover to be checked and if required oil to be replenished.		
16	The proper function of Pressure Release Device and Buchholz relay must be checked annually.		
17	Insulation resistance and polarization index of transformer must be checked with battery operated megger of 5 KV range.		
18	Resistive value for earth connection and riser must be measured annually with clamp on earth resistance meter.		
19	The contractor should check IR Value of Transformer on HT/LT side once in a year and test certificate should be produced for the same.		
20	All relays of 11/0.433KV substation should be tested and calibrated once in a year as per norms of IS 3842. subject to compliance of Part-C of Schedule-B		
21	Secondary injection testing of all relays CDG/MRI E-5/I-5/IDMT is to be carried out once in a year of HT side subject to compliance of Part-C of Schedule-B		
22	Primary injection testing is to be carried out once in a year for all 11KV substation relays subject to compliance of Part-C of Schedule-B		
23	All breakers VCB, OCB ACB are to be overhauled once in a year.		
24	Calibration of Relay, CT, PT & Meters as per scope of work. subject to compliance of Part-C of Schedule-B		
Name and signature of technicians of the contractor who attended above work			
1			
2			

Certification	JE (E)	SDO (E)	EIC
Whether any deficiency in the performance of the contractor has been noticed.			
Whether applicable parameters of equipment/system after maintenance work is matching as per acceptable norms			

Note The maintenance schedule is subject to change from time to time as directed by EIC which will be binding on the contractor without claiming for any type of compensation.

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION - XI

Permit to Work Form

Electrical 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 & 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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION - XII

Sr. No.	L.C. No.	Incomming Line	Power Off		L.C. Given by whom	Reason for	L.C. Return / Power ON		L.C. Return by whom
			Date	Time			Date	Time	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

**Signature & Seal
of Contractor**

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION XIII

Format for submitting information of Bid Capacity

Annexure - A For calculating “A” of the formula.

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

Annexure-B For calculating “B” of the formula

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 of opening of preliminary bid

Signature & Seal of Contractor

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

SECTION XIV

(To be Executed on Rs. 300/- Non Judicial Stamp Paper)

Integrity Pact

The Integrity Pact duly signed by authorized person(s) with witness are to be submitted by the bidders along with the tender documents.

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 Counterparty 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 Counterparty 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 Counterparty in such cases.

**Seal & Signature
of Contractor**

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

Operation & Maintenance Contract of Industrial Lighting at cargo handling area, open plots, jetty area, Godowns, Street lighting connecting to port gates including maintenance of 11/0.433KV Substation inside cargo jetty area for a period of two years.

INTEGRITY PACT

Between

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

..... (Name of The bidders 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(s) / Contractor(s)

- (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". Copy of the "Guidelines on Banning of business dealings" is placed at (Page No. 7-20).

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

- (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 or Contractor or of an employee, or a representative, or an associate of a Bidder or Contractor, which constitutes corruption, or if the Principal has substantive suspicion, in this regard, the Principal will inform the same to the Chief Vigilance Officer (CVO) and the CVO will take further necessary action as deemed fit in accordance with the CVC Manual.

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 Contract 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 recuses himself / herself from that case.
- (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 / Contractor. 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

- 9.1 This Pact shall be operative from the date of signing of IP by both the parties till the final completion of contract of successful bidder and for all other bidders six months after the contract has been awarded. Issues like warranty, guarantee, etc. should be outside the purview of IEMs.
- 9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact, as specified above unless it is discharged / determined by the Chairperson, DPA.

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

- (vi) 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)

अधिरक्षक अभियंता (विद्युत)
दीनदयाल पतन प्राधिकरण
Superintending Engineer (Elect.)
Deendayal Part Authority
(Office Seal)

(For & on behalf of the
Bidder/Contractor)

(Office Seal)

Signature of Witness:
(Name & Address)

Amir Kauriy
Room No-111, Narayan Building
Gurgaon

Signature of Witness:
(Name & Address)

Place : Gandhidham

Date : ___/___/20___

Note: The bidder has to execute Integrity Pact agreement with Deendayal Part Authority (as per Bid Response Sheet No. 10 and Dr. S.K. Sarkar, IAS (Retd.) and Shri Saurabh Chandra, IAS (Retd.) have been appointed by DPA as independent External Monitors and whose address are as under:-

Dr S K Sarkar, IAS (Retd.),
B-104, Nayantara Aptt.,
Plot 8 B, Sec 07, Dwarka,
New Delhi - 110 075.
Mobile No. 98111 49324
email: sksarkar1979@gmail.com

Shri Saurabh Chandra, IAS (Retd.)
A-9, Sector -30,
Noida (UP) 201301.
Mobile No. 9871322133
email: saurabh7678@yahoo.co.in