

**TENDER FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI ON
ENGINEERING, PROCUREMENT AND CONSTRUCTION CONTRACT BASIS**

(T10/T-1910/2020-C)

ADDENDUM / CORRIGENDUM NO.11

Following clause in the Bid Document shall be modified as follows:

Sl. No.	Reference Clause No.	Section / Volume	Modifications
1.	Sl.No.8 Addendum No.4, Access road and entry gate for proposed work	Addendum No.4	<p><u>Replace Employer's Clarification against Sl. No.8 of Addendum No.4 with following:</u></p> <ol style="list-style-type: none"> 1. Bridge constructed near the Ro-Ro / Gol Jetty can't be used for access. Refer Drawing 60614746-DWG-TD-0000-GN-1002-R1 showing a temporary bridge, which can be constructed by the selected contractor and used for accessing the Work Area-1. Work Area-2 can be accessed along the shore line from work area-1. 2. Bidder is advised to refer Clause A504.2, Section 6A, Volume 2, Page 149 of 1552 and further advised to refer all provisions of the tender document regarding security. Standard rules and procedures applicable for access to military establishment shall be followed. Police verification for all personnel is mandatory for applying for access. 3. Refer para 1 above.
2.	Clause A203.6.3 (b)	Section-6A, Volume II	<p><u>Add the following para (v) & (vi) under the clause A203.6.3 (b):</u></p> <p>(v) The Contractor shall submit 3D models and walkthrough of entire project facilities (service galleries, marine structures, buildings, etc.) with proper GIS referencing details while ensuring confidentiality. The 3D model shall be provided along with the final designs and shall be updated in case of any changes. The soft copy of the 3D models in the editable version shall be provided as and when requested by the Employer.</p> <p>(vi) All the utility services and their interfacing shall be duly checked for any conflicts through the 3D model before installation at site.</p>
3.	Sl.No.344 of Addendum No.4, Clause A504.1.2	Section-6A, Volume II	<p><u>Replace Employer's Clarification against S.No.344 of Addendum No.4with following:</u></p> <ol style="list-style-type: none"> 1. Bridge constructed near the Ro-Ro / Gol Jetty can not be used for access. Refer Drawing 60614746-DWG-TD-0000-GN-1002-R1 showing proposed location for a temporary bridge, which may be constructed by the selected contractor and used for accessing the project location. Further, construction site / work area can be accessed through sea and Travancore gate.

All Addendum/ Corrigendum shall form part of the Bid Document and shall be duly signed and submitted along with the Bid by the Bidder

Sl. No.	Reference Clause No.	Section / Volume	Modifications
			<p>In case the selected contractor intends to construct temporary bridge for his access, all associated works including security features (gate, guard room, etc.) as required by Indian Navy shall be provided till completion of the project. Prior to taking over of the Works, the Contractor shall dismantle temporary bridge and other temporary works and reinstate the area to its original state as per the instructions of the Employer.</p> <p>2. Malabar gate can not be used for transporting heavy loads. Strengthening of gates will not be allowed.</p>
4.	Clause A711.2.5	Section-6A, Volume II	<p><u>Add the following sentence at end of clause A711.2.5:</u></p> <p>The Contractor shall handover the 3D models, walkthroughs and GIS drawings prepared by him and an undertaking of confidentiality in the format acceptable to the Employer to be submitted.</p>
5.	Sl.No.11 of Addendum No.5, Clause C904.1.15	Section-6C, Volume II	<p><u>Modify Sl.No.11 of Addendum No.5 as given below:</u></p> <p>C904.1.15 Lift of MH hook shall be 40 m and 10 m height above and below Port Chart Datum respectively meeting all the requirements.</p>
6.	Clause C913	Section-6C, Volume II	<p><u>Add following vendor under list of Approved makes:</u></p> <ul style="list-style-type: none"> • <u>KROLL Cranes</u>
7.	Drawings	Section-7C, Volume II	<p><u>Replace Drawing 60614746-DWG-TD-0000-GN-1002</u>with following Drawing <u>60614746-DWG-TD-0000-GN-1002, Rev.1.</u></p>
8.	Sub-Clause 13.1 Right to Vary	Section-9, Volume III	<p><u>Replace the last para of Sub-Clause 13.1 with the following:</u></p> <p>However, the Employer, except as provided herein, shall pay for Variations due to any changes or modifications made by him in the Employer's Requirements. For such variations ordered by the Employer, the rates arrived by multiplying the <u>DSR (Delhi Schedule of Rates)-2018 rate with 1.359</u> (Cost index of 1.55 applicable to Ernakulam District multiplied by 0.8768 for excluding GST component from rate)_ shall be utilised for valuation.</p>
9.	Sl.No.36 of Addendum No.5, Sub-Clause 13.8	Section-9, Volume III	<p><u>Replace Sl.No.36 of Addendum No.5 i.e. replace the Sub-Clause 13.8 with the following:</u></p> <p><u>Sub-Clause 13.8</u> <u>Adjustments for Changes in Cost</u></p> <p>The Contract Price shall be adjusted for increase or decrease in rates and prices of labour, materials, construction machinery, fuel and lubricants in accordance with the following principles and procedures and as per formula given. No adjustment is to be applied to work valued on the basis of Cost at current prices.</p>

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			<p>The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate Schedule and certified in Payment Certificates shall be determined from formula.</p> <p>The formula for adjustment for changes in cost shall be as follows:</p> $P_n = a + b \left(\frac{L_n}{L_o} \right) + c \left(\frac{C_n}{C_o} \right) + d \left(\frac{S_n}{S_o} \right) + e \left(\frac{M_n}{M_o} \right) + f \left(\frac{Q_n}{Q_o} \right) + g \left(\frac{F_n}{F_o} \right)$ <p>where:</p> <p>"P_n" is the adjustment multiplier to be applied to the contract amount paid against cost centre / stage as per Schedule of Payments for the completed stage of work;</p> <p>"a" is a fixed coefficient, stated in the table of adjustment data as given below, representing the non-adjustable portion for various cost centre as per Schedule of Payments;</p> <p>"b" is a fixed coefficient, stated in the table of adjustment data as given below, representing the adjustable portion for labour component for various cost centre as per Schedule of Payments;</p> <p>"c" is a fixed coefficient, stated in the table of adjustment data as given below, representing the adjustable portion for cement component for various cost centre as per Schedule of Payments;</p> <p>"d" is a fixed coefficient, stated in the table of adjustment data as given below, representing the adjustable portion for steel component for various cost centre as per Schedule of Payments;</p> <p>"e" is a fixed coefficient, stated in the table of adjustment data as given below, representing the adjustable portion for Other Materials for relevant cost centre as per Schedule of Payments;</p> <p>"f" is a fixed coefficient, stated in the table of adjustment data as given below, representing the adjustable portion for Construction Machinery for relevant cost centre as per Schedule of Payments;</p> <p>"g" is a fixed coefficient, stated in the table of adjustment data as given below, representing the adjustable portion for Fuel & Lubricants for relevant cost centre as per Schedule of Payments.</p> <p>"L_n", "C_n", "S_n", "M_n", "Q_n" and "F_n" are the current cost indices for period "n", each of which is applicable to the relevant tabulated cost element <u>on the date 49 days prior to the last day of the period</u>, (to which the particular Payment Certificate relates) as detailed in the table of adjustment data as given below.</p>

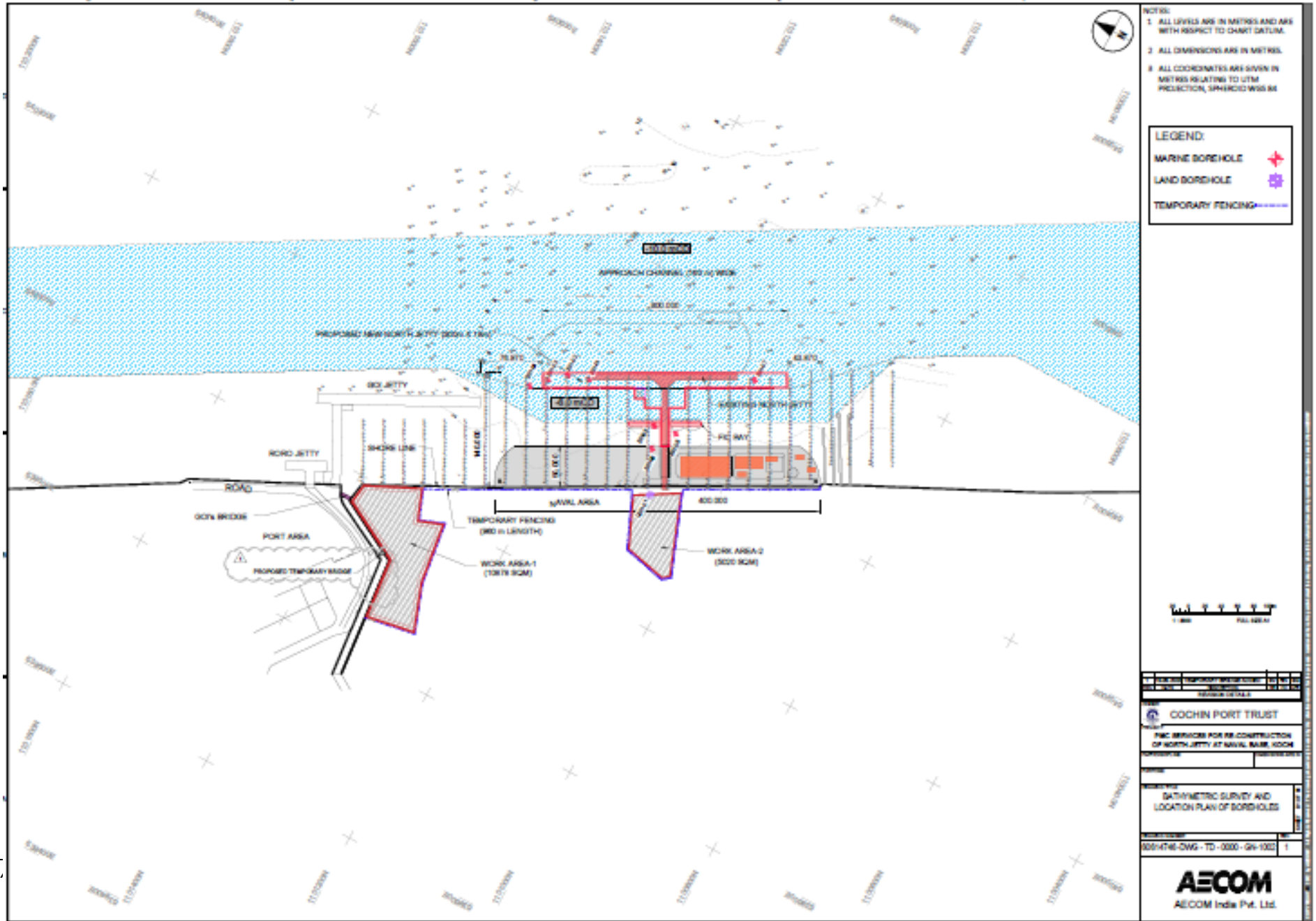
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			<p>"Lo", "Co", "So", "Mo", "Qo" and "Fo" are the base cost indices, each of which is applicable to the relevant tabulated cost element on the Base Date (28 days prior to the Bid Submission Date), as detailed in the table of adjustment data as given below.</p> <p>Table of Adjustment Data:</p> <p>i) Values of a, b, c, d, e, f and g for various cost centres shall be as below:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th style="text-align: center;">Coefficient</th> <th style="text-align: center;">Value</th> </tr> </thead> <tbody> <tr> <td>Fixed Component (a)</td> <td style="text-align: center;">0.20</td> </tr> <tr> <td>Labour (b)</td> <td style="text-align: center;">0.20</td> </tr> <tr> <td>Cement (c)</td> <td style="text-align: center;">0.03</td> </tr> <tr> <td>Steel (d)</td> <td style="text-align: center;">0.16</td> </tr> <tr> <td>Other Materials (e)</td> <td style="text-align: center;">0.31</td> </tr> <tr> <td>Construction Machinery (f)</td> <td style="text-align: center;">0.05</td> </tr> <tr> <td>Fuel & Lubricant (g)</td> <td style="text-align: center;">0.05</td> </tr> </tbody> </table> <p>ii) Values for "Ln", "Cn", "Sn", "Mn", "Qn" and "Fn" shall be taken as follows:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th style="text-align: center;">Term</th> <th style="text-align: center;">Applicable Index</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">"Ln"</td> <td>The All India Consumer Price Index for Industrial Workers as published by the Labour Bureau, Ministry of labour, Government of India.</td> </tr> <tr> <td style="text-align: center;">"Cn"</td> <td>The wholesale price index number for Cement (Ordinary Portland Cement- code: 1313050003) as published by the Economic Advisor, Ministry of Commerce Government of India.</td> </tr> <tr> <td style="text-align: center;">"Sn"</td> <td>The wholesale price index number for Steel (Mild Steel - Long Products – code: 1314040000) as published by the Economic Advisor, Ministry of Commerce, Government of India.</td> </tr> <tr> <td style="text-align: center;">"Mn"</td> <td>The wholesale price index number for All Commodities (ALL COMMODITIES – code: 1000000000)as published by the Economic Advisor, Ministry of Commerce, Government of India.</td> </tr> <tr> <td style="text-align: center;">"Qn"</td> <td>The wholesale price index number for Construction Machinery (Manufacture of machinery for mining, quarrying and construction – code: 1318110000)as published by the Economic Advisor, Ministry of Commerce, Government of India</td> </tr> <tr> <td style="text-align: center;">"Fn"</td> <td>The wholesale price index number for Fuel & Lubricant (HSD – code: 1202000005)as published by the Economic Advisor, Ministry of Commerce, Government of India</td> </tr> </tbody> </table> <p>iii) Values for "Lo", "Co", "So", "Mo", "Qo" and "Fo" shall be as follows:</p>	Coefficient	Value	Fixed Component (a)	0.20	Labour (b)	0.20	Cement (c)	0.03	Steel (d)	0.16	Other Materials (e)	0.31	Construction Machinery (f)	0.05	Fuel & Lubricant (g)	0.05	Term	Applicable Index	"Ln"	The All India Consumer Price Index for Industrial Workers as published by the Labour Bureau, Ministry of labour, Government of India.	"Cn"	The wholesale price index number for Cement (Ordinary Portland Cement- code: 1313050003) as published by the Economic Advisor, Ministry of Commerce Government of India.	"Sn"	The wholesale price index number for Steel (Mild Steel - Long Products – code: 1314040000) as published by the Economic Advisor, Ministry of Commerce, Government of India.	"Mn"	The wholesale price index number for All Commodities (ALL COMMODITIES – code: 1000000000)as published by the Economic Advisor, Ministry of Commerce, Government of India.	"Qn"	The wholesale price index number for Construction Machinery (Manufacture of machinery for mining, quarrying and construction – code: 1318110000)as published by the Economic Advisor, Ministry of Commerce, Government of India	"Fn"	The wholesale price index number for Fuel & Lubricant (HSD – code: 1202000005)as published by the Economic Advisor, Ministry of Commerce, Government of India
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Sd/-
CHIEF ENGINEER



- NOTES:
1. ALL LEVELS ARE IN METRES AND ARE WITH RESPECT TO CHART DATUM.
 2. ALL DIMENSIONS ARE IN METRES.
 3. ALL COORDINATES ARE GIVEN IN METRES RELATING TO UTM PROJECTION, SPHEROID WGS 84.

LEGEND:

- MARINE BORE HOLE +
- LAND BORE HOLE +
- TEMPORARY FENCING ---



PROJECT NO.	000-476-DWG-TD-0000-04-1002
PROJECT NAME	RECONSTRUCTION OF NORTH JETTY AT NAVAL BASE, COCHIN
CLIENT	COCHIN PORT TRUST
CONTRACT NO.	
CONTRACT DATE	
DATE	
DESCRIPTION	BATHYMETRIC SURVEY AND LOCATION PLAN OF BOREHOLES
SCALE	1:500
DATE OF ISSUE	
ISSUED BY	
CHECKED BY	
APPROVED BY	
DATE OF APPROVAL	
PROJECT MANAGER	
DESIGNER	
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE OF APPROVAL	
AECOM AECOM India Pvt. Ltd.	