

**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.5**

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

Sl. No.	Reference Clause No.	Section/ Volume	Modifications
1.	Section-5	Section-5, Volumel	The words ' <b>Accepted Contract Sum</b> ', ' <b>Accepted Contract Amount</b> ', ' <b>Contract Value</b> ' appearing in the Section-5 and elsewhere in the Tender Document shall be read as ' <b>Contract Price</b> '.
2.	Clause A202.2.1(c)	Section-6A, Volumell	<b><u>Replace Clause A202.2.1 (c) with following:</u></b>  (c) All programmes submitted to the Employer (including:the 120 daysPreliminary Programme; the DTP andincluding any subsequentupdates or revisions to the aforementioned documents), must beprepared andmaintained using Primavera P6 version 7.0 or <b>Microsoft Project (latest version)</b> . Evidenceof the Contractor's Planner's ability in the use of P6 or MS Project shall berequiredto be submitted prior to submittal of the programme.
3.	Clause A601.2.1	Section-6A, Volumell	<b><u>Add following para (f) at the end of Clause A601.2.1:</u></b>  (f) Supply of hired/leasedproducts, materials or equipmentto be incorporated in the PermanentWorks is not allowed and the Contractor shall give an undertaking for the same in the format to be provided by the Employer during execution stage.
4.	List of approved Manufactures / vendors	Section 6B Volume II	<b><u>Add following Manufacture's name under Sl.No.1 against Cement:</u></b>  "Zuari Cement"
5.	Clause B1710.4.2	Section-6B, Volume II	<b><u>Replace Clause B1710.4.2 with the following:</u></b>  The design life of the corrosion protection systems shall not be less than <b>15 years</b> . Anodes shall be designed for the <b>15 years</b> design life.
6.	Clause C310.1.5	Section-6C, Volume II	<b><u>Replace first sentence of Clause C310.1.5 with the following:</u></b>  The sentence ' <b>AFC and Lifts also shall be interfaced with fire alarm system</b> ' shall be replaced with ' <b>Lifts also shall be interfaced with fire alarm system</b> '.
7.	Clause C313	Section-6C, Volume II	<b>Clause C313.1 to C313.5.10 stands deleted.</b>  <b>Clause C313 <u>Signage</u> shall be renamed as '<u>Technical Details</u>'.</b>

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8.	Clause C313.11.9	Section-6C, Volume II	<b>Clause C313.11.9 stands deleted.</b>						
9.	Clause C600	Section-6C, Volumell	<p><b><u>Add the following Clause C602 under Clause C600:</u></b></p> <p><b>C602 APPROVED VENDOR LIST</b></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Approved Makes</th> </tr> </thead> <tbody> <tr> <td>Air Compressor</td> <td>1. Atlas Copco 2. Chicago Pneumatic, 3. Elgi, 4. Ingersoll rand, 5. Sauer</td> </tr> <tr> <td>Air dryer</td> <td>1. Atlas copco, 2. Ingersoll rand, 3. Parker</td> </tr> </tbody> </table>	Description	Approved Makes	Air Compressor	1. Atlas Copco 2. Chicago Pneumatic, 3. Elgi, 4. Ingersoll rand, 5. Sauer	Air dryer	1. Atlas copco, 2. Ingersoll rand, 3. Parker
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10.	Clause C901.1.3	Section-6C, Volumell	<p><b><u>Replace Clause C901.1.3 with the following:</u></b></p> <p>The Scope of Work is Engineering, design, manufacture, Supply, delivery tosite, installation, testing and commissioning of 2 numbers of 50T capacity electrically operated railmounted mobile crane (hammerhead crane) suitable for handling machine parts andequipment's for maintenance of vessels, related operations up to handing overwith initial fill of fuel, lubricants and other necessary consumables.</p>						
11.	Clause C904	Section-6C, Volumell	<p><b><u>Add the following Clauses under Clause C904:</u></b></p> <p>C904.1.13 Speed of main hoist shall be minimum 10 m/minute at 50 T and 20 m/minute at 25 T.  C904.1.14 Speed of rotation of slew drive shall be 0.5 slew/minute.  C904.1.15 Lift of MH hook shall be 38 m and 10 m height above ground and below ground respectively.  C904.1.16 The speed control shall be stepped with smooth, linear and continuous.</p>						
12.	Clause C1202.21	Section-6C, Volume II	<b>Clause C1202.21 stands deleted.</b>						
13.	Clause C1204.8.2	Section-6C, Volume II	The requirement of Treated water storage tanksstands deleted.						
14.	Clauses 1212.5.1, C1213.2.1, C1213.7.1, C1213.9.1, C1213.10.1, C1213.16.6 andC1213.17.1	Section-6C, Volume II	<b><u>The reference to 'bill of quantity' in these clauses stands deleted.</u></b>						
15.	Clause C1322.2.1	Section-6C, Volume II	<b><u>'433V, 50Hz' appearing in Clause C1322.2.3 &amp; Clause C1322.2.4 to be replaced with '415V, 50Hz'.</u></b>						
16.	Clause C1322.2.1	Section-6C, Volume II	<b><u>'IP 55 degree of protection' appearing in Clause C1322.2.1 to be replaced with 'IP 65 degree of protection'.</u></b>						

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17.	Clause C1322.2.7 & C1322.2.8	Section-6C, Volume II	<b><u>'380V'</u></b> appearing in <b><u>Clause C1322.2.7 &amp; Clause C1322.2.8</u></b> to be replaced with <b><u>'415/380V'</u></b> .														
18.	Clause C1325.1.10	Section-6C, Volume II	<b><u>Following modification to be done in Clause C1325.1.10:</u></b>  'Steady state Voltage drop (Continuous running condition): <b>2.5%</b> ' shall be replaced with 'Steady state Voltage drop (Continuous running condition): <b>3%</b> '.														
19.	Clause C1351.9	Section-6C, Volume II	<b><u>Add the following approved makes under Clause C1351.9:</u></b>  <table border="1"> <thead> <tr> <th>Equipment / Component</th> <th>Preferred Makes</th> </tr> </thead> <tbody> <tr> <td>Electrical control Cables</td> <td>Lapp, Polycab, Havells,KEI,Delton</td> </tr> <tr> <td>Rectifier Transformer for feeding 220V DC to cope boxes</td> <td>ABB, SIEMENS,Secheron, Hirect</td> </tr> <tr> <td>Rectifier for 415V/220V DC</td> <td>ABB, SIEMENS, APLAB, FUJI,Secheron</td> </tr> <tr> <td>Frequency Converter</td> <td>ABB, TMEIC, GE, PSC, SIEMENS</td> </tr> <tr> <td>GI/Cu Earthing strip</td> <td>Excel Earthings, Sunflex, JJ Engineering, Earthing House(India), Gravin, OBO, JEFTECHNO</td> </tr> <tr> <td>GI/Cu Plate and pipe electrode</td> <td>OBO, JMV, Gravin, JEFTECHNO</td> </tr> </tbody> </table>	Equipment / Component	Preferred Makes	Electrical control Cables	Lapp, Polycab, Havells,KEI,Delton	Rectifier Transformer for feeding 220V DC to cope boxes	ABB, SIEMENS,Secheron, Hirect	Rectifier for 415V/220V DC	ABB, SIEMENS, APLAB, FUJI,Secheron	Frequency Converter	ABB, TMEIC, GE, PSC, SIEMENS	GI/Cu Earthing strip	Excel Earthings, Sunflex, JJ Engineering, Earthing House(India), Gravin, OBO, JEFTECHNO	GI/Cu Plate and pipe electrode	OBO, JMV, Gravin, JEFTECHNO
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20.	Clause 7A.303.1	Section-7A, Volumell	<b><u>Add following Clause 7A.303.1.3 under Clause 7A303.1:</u></b>  <b>7A303.1.3</b> The list of vendors / approved makes furnished in the Tender Document shall only be used in the Works. The Contractor shall have to obtain priorapproval from the Employer for the list of itemsthose are not indicated/specified in the Tender Document for use in the Works. The Employer reserves the right to reject the Contractor's proposed vendor / make without assigning any reason. The Employer's decision is final in this regard and no claim whatsoever shall be entertained on this account.														
21.	Clause 7A304.2. (b)	Section-7A, Volumell	<b><u>Replace Clause 7A304.2. (b) with following:</u></b>  (b)Demolishing / cutting off the piles of jetty and approach trestle upto the existing bed level at the time of execution.														
22.	Clause 7B.2.4	Section-7B, Volumell	<b><u>Add following at end of Clause 7B.2.4:</u></b>  Dredged level in front of vertical reclamation wall : (-) 2.00 m CD (inclusive of dredging tolerance)  Dredging tolerance of 0.5 m shall be considered in design except specified otherwise.														

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23.	Clause 7B.2.6.2	Section-7B, Volumell	<b><u>Add following sentence at the end of Clause 7B.2.6.2:</u></b>  Uniformly distributed load of 10 kN/m <sup>2</sup> shall be considered inside area of utility duct.
24.	Clause 7B.2.6.6	Section-7B, Volumell	<b><u>Modify the name of Clause as 'Current and Wave Load' and Add following para at the end of Clause 7B.2.6.6:</u></b>  Design wave height of 1 m with time period of 8 seconds for operational as well as extreme conditions shall be considered.  Wave load shall be considered along with the current load in the corresponding load combinations.
25.	Clause 7B.2.6.8	Section-7B, Volumell	<b><u>Modify Clause 7B.2.6.8 as below:</u></b>  <b><u>Delete first para of the Clause and modify second para as given below.</u></b>  Following capacity bollards shall be provided at main jetty and FIC bay. Hence, the jetties shall be designed for full capacity of the bollard in both <b>operating</b> and <b>extreme</b> conditions.
26.	Clause 7B.2.6.11	Section-7B, Volumell	<b><u>Add following sentence at end of Clause 7B.2.6.11</u></b>  These load combinations are the minimum combinations to be followed. Since berthing / mooring facilities are provided on both sides of jetty / FIC bay, combination of various loads that can act simultaneously shall be considered in both serviceability and collapse limit states.
27.	Clause 7B.2.6.11	Section-7B, Volumell	<b><u>Replace following in Table 7.5:</u></b>  The value '09' shall be replaced with '0.9' in last two rows of the Table 7.5.
28.	Clause 7B.2.7, Table 7.6	Section-7B, Volumell	<b><u>Replace following in Table 7.6:</u></b>  'Fe-500' shall be replaced with 'Fe500D' in third row for 'Reinforcement'.
29.	Clause 7B.3.3	Section-7B, Volumell	<b><u>Add following para at the end of Clause 7B.3.3:</u></b>  The reclamation area shall be designed and constructed to accommodate the design loadings, and such greater loads as stated in the Specification, without significant settlements which may damage or affect the efficiency of operation throughout its design life. The total residual settlement after completion of ground improvement shall not exceed 10% of the estimated total ground settlement. The allowable differential settlement of the reclamation area shall be less than 0.005L and Angular distortion shall be less than 1:200 (where, L=Length between two points of settlement measurement).

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30.	Clause 7B3.4.4.2	Section-7B, Volumell	<b><u>Replace following in Clause 7B.3.4.4.2:</u></b>  '18 m/s' shall be replaced with '20 m/s' in basic wind speed in operating condition.
31.	Clause 7B3.4.4.3	Section-7B, Volumell	<b><u>Add following para at the starting of Clause 7B.3.4.4.3:</u></b>  Live load shall be considered as per IS:875 (Part 2). However, a minimum live load of 5 kN/m <sup>2</sup> shall be considered.
32.	Clause 7B.3.16.11	Section-7B, Volume II	<b><u>Modify the following in S.No.16 of the Table under Clause 7B.3.16.11:</u></b>  'Rotary Freq. Convertors' to be replaced with 'Static Frequency Convertors'.
33.	Clause 7B.3.16.15	Section-7B, Volume II	<b><u>Replace fourth para under Clause 7B.3.16.15 with the following:</u></b>  Panels made up of special material called "Aluminium Zinc".The painting to be done by 7-Tank process.
34.	Drawing 60614746-DWG-TD-0000-CS-4014, Rev.0	Section-7C, Volume II	In the Legend of Drawing 60614746-DWG-TD-0000-CS-4014, Rev.0, ' <u>OH LT Cable</u> ' to be replaced with ' <u>11KV UG Cable</u> '.
35.	Sub-Clause 13.7	Section-9;Volumelll	<b><u>Replace the Sub-Clause 13.7 with the following:</u></b>  The Contract Price shall be adjusted to take account of any increase or decrease in Cost after the Base Date resulting from: a) a change in the Laws of the Country (including the introduction of new Laws and the repeal or modification of existing Laws); or (b) in the judicial or official governmental interpretation of such Laws, or (c) the commencement of any Indian law which has not entered into effect until the Base Date; or (d) any change in the rates of any of the Taxes or royalties on Materials that have a direct effect on the Project which affect the Contractor in the performance of its obligations under the Contract.  If the Contractor suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Base Date, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [ <i>Contractor's Claims</i> ]to: (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4[ <i>Extension of Time for Completion</i> ], and (b) payment of any such Cost, which shall be included in the Contract Price.  After receiving this notice, the Engineer shall proceed in accordance with Sub Clause 3.5 [ <i>Determinations</i> ]to agree or

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			<p>determine these matters.</p> <p>If as a result of change in law, interpretation, or rates of taxes or royalties, the Contractor benefits from any reduction in costs for the execution of this Contract, save and except as expressly provided for in this Sub-Clause or in accordance with the provisions of this Contract, the Contractor shall, within twenty-eight (28) days from the date he becomes reasonably aware of such reduction in cost, notify the Employer with a copy to the Engineer of such reduction in cost.</p> <p>Notwithstanding the foregoing, such additional or reduced cost, shall not be separately paid or credited if the same has already been taken into account in the adjustment for changes in costs in accordance with the provisions of Sub-Clause 13.8.</p>
36.	Sub-Clause 13.8	Section-9;Volumelll	<p><b><u>Replace the Sub-Clause 13.8 with the following:</u></b></p> <p>The Contract Price is FIXED LUMP SUM and the Contractor shall not be entitled to claim any payment / extension of time for the completion of the works due to any change in the cost due to the rises or falls in the cost of labour, material and other inputs to the Works. However, compensation for variation in price of cement, reinforcement steel and Mild Steel plate only shall be payable. The price adjustment for variation in price of cement, reinforcement steel and mild steel plate, shall be made as detailed below.</p> <p>The Contract Price shall be based on the cost of the following materials (Basic cost) noted against them hereunder:</p> <ul style="list-style-type: none"> <li>i) Cement consumed for various items of work: <b>Rs. 6,900/-</b>per tonne</li> <li>ii) Reinforcement steel used under various items: <b>Rs. 64,350/-</b> per tonne</li> <li>iii) Mild steel plate used for the fabrication of liners: <b>Rs. 67,150/-</b> per tonne</li> </ul> <p>Compensation for variation in cost of cement, reinforcement steel and mild steel plates shall be regulated as described below subject to the condition that such compensation for variation in prices shall be only for the work done during the stipulated period of the Contract including such period for which the validity of the contract is extended under the provisions of the Contract.</p> <p>The formula for arriving at the adjustment multiplier to be applied to the Basic Costs of cement, reinforcement steel and mild steel plate shall be as follows:</p> <p>Multiplier for Cement = (Cn/Co)  Multiplier for Reinforcement steel = (Sn/So)  Multiplier for Mild steel liner plates = (Mn/Mo)</p>

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			<p>“Cn”, “Sn”and “Mn” are the current cost indices for period "n", each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period, (to which the particular Payment Certificate relates).</p> <p>“Co”, “So” and “Mo” are the Base Cost indices, each of which is applicable to the relevant tabulated cost element on the Base Date.</p> <table border="1" data-bbox="735 533 1457 1335"> <tr> <td data-bbox="735 533 810 656">Cn</td> <td data-bbox="810 533 1457 656">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 data-bbox="735 656 810 779">Sn</td> <td data-bbox="810 656 1457 779">The wholesale price index number for Steel (Mild Steel - Long Products – code: 1314050000) - as published by the Economic Advisor, Ministry of Commerce, Government of India.</td> </tr> <tr> <td data-bbox="735 779 810 931">Mn</td> <td data-bbox="810 779 1457 931">The wholesale price index number for Steel (Hot Rolled (HR) Coils &amp; Sheets incl Narrow Strip – code: 1314050001) - as published by the Economic Advisor, Ministry of Commerce, Government of India.</td> </tr> <tr> <td data-bbox="735 931 810 1055">Co</td> <td data-bbox="810 931 1457 1055">The wholesale price index number for Cement (Ordinary Portland Cement- code: 1313050003) as published by the Economic Advisor, Ministry of Commerce Government of India, as on Base Date.</td> </tr> <tr> <td data-bbox="735 1055 810 1178">So</td> <td data-bbox="810 1055 1457 1178">The wholesale price index number for Steel (Mild Steel - Long Products – code: 1314050000) - as published by the Economic Advisor, Ministry of Commerce, Government of India, as on Base Date.</td> </tr> <tr> <td data-bbox="735 1178 810 1335">Mo</td> <td data-bbox="810 1178 1457 1335">The wholesale price index number for Steel (Hot Rolled (HR) Coils &amp; Sheets incl Narrow Strip – code: 1314050001) - as published by the Economic Advisor, Ministry of Commerce, Government of India, as on Base Date.</td> </tr> </table> <p>The above adjustment results in an addition or reduction as the case may be to or from the Contract Price and shall be paid to or allowed by the contractor accordingly, provided that such increase or decrease shall relate only to the quantities of material which the Employer is satisfied was reasonably required for the Works. While considering the reasonable requirement of cement and steel for the work, allowance towards wastage/unusable cutting bits shall be permitted limited to (+) 2% in the cases of cement and (+) 5.99% in the case of both steel reinforcement and mild steel plate.</p>	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: 1314050000) - as published by the Economic Advisor, Ministry of Commerce, Government of India.	Mn	The wholesale price index number for Steel (Hot Rolled (HR) Coils & Sheets incl Narrow Strip – code: 1314050001) - as published by the Economic Advisor, Ministry of Commerce, Government of India.	Co	The wholesale price index number for Cement (Ordinary Portland Cement- code: 1313050003) as published by the Economic Advisor, Ministry of Commerce Government of India, as on Base Date.	So	The wholesale price index number for Steel (Mild Steel - Long Products – code: 1314050000) - as published by the Economic Advisor, Ministry of Commerce, Government of India, as on Base Date.	Mo	The wholesale price index number for Steel (Hot Rolled (HR) Coils & Sheets incl Narrow Strip – code: 1314050001) - as published by the Economic Advisor, Ministry of Commerce, Government of India, as on Base Date.
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37.	Sub-Clause 14.3	Section-9;Volumelll	<p><b><u>Modify the Sub-Clause 14.3 as below:</u></b></p> <p><b><u>Replace following para (b) with the following:</u></b></p> <p>b) Deduction of 5% of the amount to which the Contractor is entitled under para (a) above as Retention Money.The Retention Money shall be “released” on submission of Bank Guarantees in the format acceptable to the Employer on a periodic basis.</p>												

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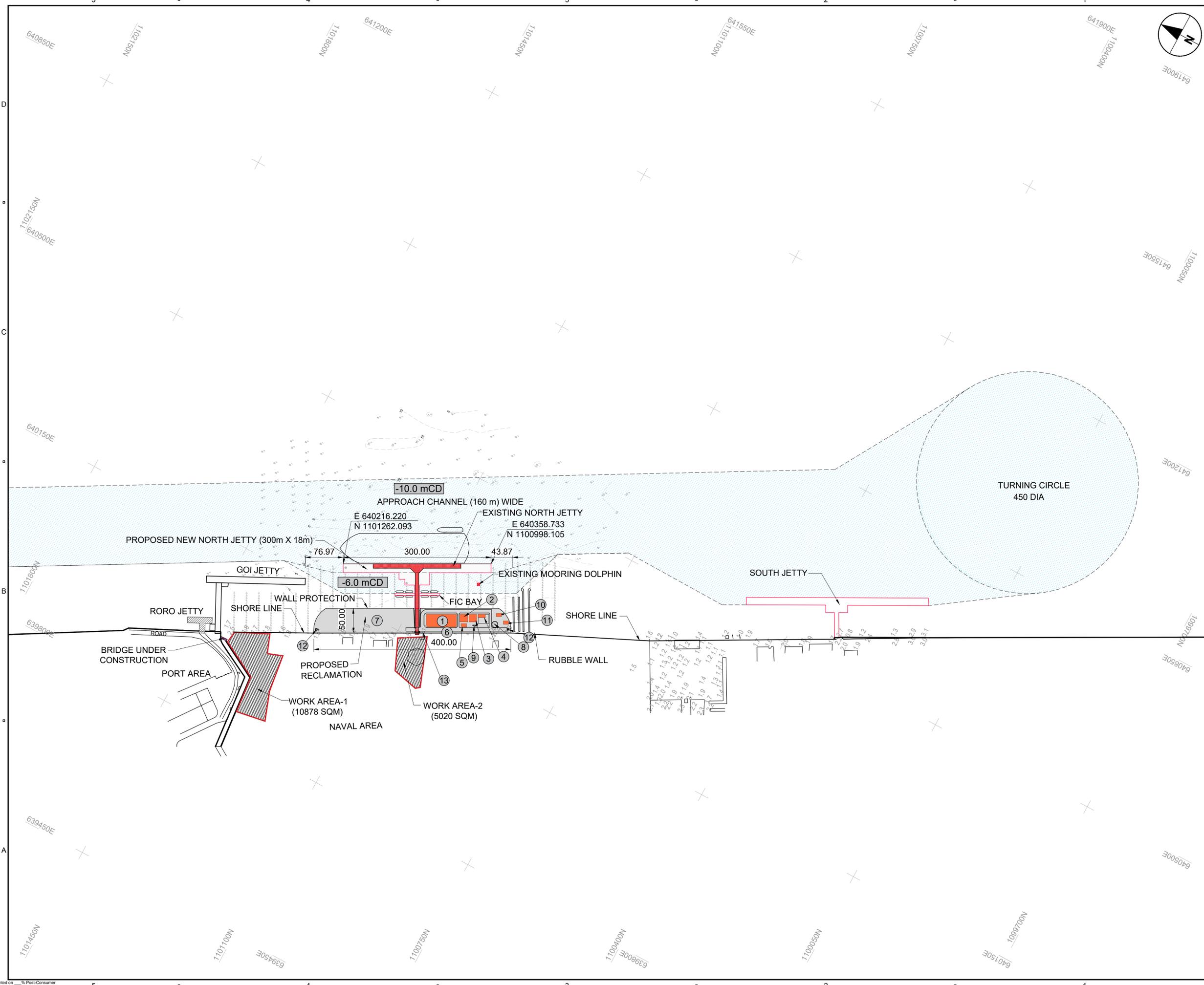
Sl. No.	Reference Clause No.	Section/ Volume	Modifications
			<p><b><u>Add following para (h) at the end of Sub-Clause:</u></b></p> <p>h) any amounts to be added and deducted for changes in legislation and changes in cost, in accordance with Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Costs].</p>
38.	Sub-Clause 14.4	Section-9; Volumelll	<p><b><u>Replace the first para of Sub-Clause 14.4 with the following:</u></b></p> <p>The Employer is not bound to make any payment under this Sub-Clause if the gross workdone amount for the relevant bill is less than 2% of the Contract Price, except for the first three bills where payment could be made if the gross workdone amount for the relevant bill is more than 1% of the Contract Price.</p>
39.	Minimum amount of Interim Payment Certificate, Appendix to Tender	GC Sub-Clause 14.4/14.6	<p><b><u>Replace “2% of the Accepted Contract Amount” with “2% of the Contract Price or 1% of Contract Price (for first 3 bills)”.</u></b></p>
40.	Clause B2004	Section-B, Volume II	<p><b><u>Modify Clause B2004 as below:</u></b></p> <p>The Contractor has to remove all service and installations on the existing jetty and stockpile at the identified location to be provided during the execution.</p>
41.	Sub-Clause 14.1	Section-9; Volumelll	<p><b><u>Replace the first para of Sub Clause 14.1 with the following:</u></b></p> <p>“The Contract Price includes all duties, taxes (except GST), royalties, premiums for various insurances, licenses and fees that may be levied in accordance with the Laws and regulations in force as on the Base Date on the Contractor's Equipment, Plant, Materials and supplies acquired for the purpose of the Contract and on the services performed under the Contract. The GST shall be paid extra as per the prevailing rates.</p>
42.	Estimated Cost, Form A	Form A, Section-10 and Page 4 of 1552	<p>Replace “<b>Rs. 461.6 crores</b>” with “<b>Rs. 461.6 crores exclusive of GST</b>”</p>
43.	Financial Proposal	Financial Proposal	<p><u>Remove “- Schedule of Quantities of Work to be Done on Contract” from the second line</u></p> <p><b><u>Replace “Bidder’s Quoted Area” with “Bidder’s Quote”</u></b></p> <p><b><u>Add following sentence at end</u></b></p> <p>4. The Bidders Quoted Amount shall be exclusive of GST, which shall be paid extra as per the prevailing rates.</p>
44.	Clause B517	Section-6B, Volume II	<p>Replace “<b>Each Terminal Location</b>” with “<b>Main Jetty (including platform) and Approach Trestle and FIC Bay</b>”</p>

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45.	Clause B517.1.4 (b)	Section-6B, Volume II	Replace “ <b>Berth Structure</b> ” with “ <b>Main Jetty (including platform) and Approach Trestle and FIC Bay</b> ”				
46.	Table 7.6	Section-7B, Volume II	<p><b><u>Add following At the end of Table 7.6</u></b></p> <table border="1"> <tr> <td>Screed</td> <td>M40</td> </tr> </table>	Screed	M40		
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47.	Clause 503.3	Section-6C, Volume II	<p><b><u>Replace following in sub clause (a)(i) and sub clause (b) (i)</u></b></p> <p>“Piping and accessories shall have a 300-bar certificate.” Shall be replaced with “Piping and accessories shall have certificate that they can handle minimum 2 times the design pressure.”</p>				
48.	Table under para 1	Notice Inviting Tenders	<p><b><u>Replace following in the table:</u></b></p> <p>“Rs.461.6 crores” shall be replaced with “Rs.461.6 crores excluding GST”</p>				
49.	Clause C801.2.4	Section-6C, Volume II	<p><b><u>Replace following in Clause C801.2.4:</u></b></p> <p>“The control room shall have a workstation terminal with one 48” monitor, an operator console and printer” shall be replaced with  <b>“Workstation terminal with one 48” monitor, an operator console and printer shall be provided in following areas:</b></p> <ul style="list-style-type: none"> <li><b>i) Control room,</b></li> <li><b>ii) Office building and</b></li> <li><b>iii) Guard room.”</b></li> </ul>				
50.	Clause 7B.3.16.15	Section-7B, Volume II	<p><b><u>Replace following in Clause 7B.3.16.15:</u></b></p> <p>“Electrical interlocks between the two incomers and the bus coupler will be included such that only one incomer with bus coupler can be switched on and the other incomer will be off. Alternatively both the incomers can be switched on only when the bus coupler is off” shall be replaced with</p> <p>“At any time 3 Incomer and bus coupler shall be in ON condition to meet the load requirement. In addition, Station transformer of capacity 160KVA to be provided to meet auxiliary power requirement in the North jetty substation and 11 KV feeder for auxiliary transformer also to be included.”</p>				
51.	Clause C900	Section-6C, Volume II	The term ‘ <b>tower crane</b> ’, appearing in the Section-6C and elsewhere in the Tender Document shall be read as ‘ <b>electrically operated mobile hammerhead Crane</b> ’.				
52.	Clause C903.4.1	Section-6C, Volume II	<p><b><u>Replace following in the table of crane parameters under Clause C903.4.1:</u></b></p> <table border="1"> <tr> <td>Cable length (m)</td> <td><b>140 m</b></td> </tr> </table> <p>shall be replaced with</p> <table border="1"> <tr> <td>Cable length (m)</td> <td><b><u>To suit crane travelling length of 300 m</u></b></td> </tr> </table>	Cable length (m)	<b>140 m</b>	Cable length (m)	<b><u>To suit crane travelling length of 300 m</u></b>
Cable length (m)	<b>140 m</b>						
Cable length (m)	<b><u>To suit crane travelling length of 300 m</u></b>						

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
53.	Clause C913	Section-6C, Volume II	<b><u>Add following para at the end of Clause C913:</u></b>  The crane manufacturer should have supplied at least one number 50 T or higher capacity electrically operated rail mounted hammerhead crane in the last 7 years and the same should be in satisfactory operation for the last one year.
54.	Drawings	Section-7C, Volume II	<b><u>Replace Drawings 60614746-DWG-TD-0000-GN-1001, 60614746-DWG-TD-0000-CS-2001, 60614746-DWG-TD-0000-PL-3006, 60614746-DWG-TD-0000-PL-4005, 60614746-DWG-TD-0000-PL-4006, 60614746-DWG-TD-0000-PL-4008 and 60614746-DWG-TD-0000-PL-4009 with following Drawings</u></b> <b><u>60614746-DWG-TD-0000-GN-1001, Rev.1,</u></b> <b><u>60614746-DWG-TD-0000-CS-2001, Rev.1,</u></b> <b><u>60614746-DWG-TD-0000-PL-3006, Rev.1,</u></b> <b><u>60614746-DWG-TD-0000-PL-4005, Rev.1,</u></b> <b><u>60614746-DWG-TD-0000-PL-4006, Rev.1,</u></b> <b><u>60614746-DWG-TD-0000-PL-4008, Rev.1 and</u></b> <b><u>60614746-DWG-TD-0000-PL-4009, Rev.1.</u></b>
55.	Sub-Clause 1.1.3.2	Section-9, Volume III	<b><u>Replace the Sub-Clause 1.1.3.2 with the following:</u></b>  “Commencement Date” means the date of issue of ‘Letter of Award’ by the Employer to the Contractor.
56.	Form-A: Form of Agreement	Section-10, Volume III	<b><u>S.No. (g) under the Memorandum in Form of Agreement (Form A) stands deleted.</u></b>
57.	Clause A503.5 Assistance to the Employer	Section-6A, Volume II	<b><u>Replace the Sub-Clause 503.5.4 with the following:</u></b>  “The Seaworthy Work Boat shall be capable of carrying at least Fifteen (15) passengers in addition to crew required for the operation of the work boat and shall be equipped with a rain shelter providing standing head room for atleast Fifteen (15 )passengers”.
58.	Clause A503.5. Assistance to the Employer	Section-6A, Volume II	<b><u>Replace the Sub-Clause 503.5.10 with the following:</u></b>  “The Contractor shall provide and maintain three (3) Nos. [ Two (2) for CoPT and One (1) for Navy] four wheeled drive, Air conditioned vehicle of minimum 2019 model (Mahindra XUV 500 make or equivalent), to accommodate 5 - 6 people each, and for the exclusive use for the Employer.



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:

S.No	DESCRIPTION	SIZE (IN m)
1	POWER HOUSE	60 X 25
2	SERVICE BUILDING (G+2)	15 X 15
3	DG ROOM	15 X 15
4	UNDERGROUND WATER SUMP	21.3 X 12.3
5	COMPRESSOR HOUSE	10 X 6
6	ROAD	7m WIDE
7	AREA FOR FUTURE DEVELOPMENT	
8	ELEVATED WATER STORAGE TANK	12m DIA
9	STP	
10	BUILDING FOR OXYGEN CYLINDERS	10 X 6
11	BUILDING FOR ACETYLENE CYLINDERS	10 X 6
12	WATCH TOWER	
13	GUARD ROOM	



ISSUED FOR TENDER

REV.	DATE	DESCRIPTION	DR.	CH.	APR.
1	20.02.2020	EXISTING MOORING DOLPHIN IS SHOWN	SV	TS	SG

OWNER: COCHIN PORT TRUST

PROJECT: **PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI**

PART/DISCIPLINE: \_\_\_\_\_ DIMENSIONS ARE IN: \_\_\_\_\_

PURPOSE: \_\_\_\_\_

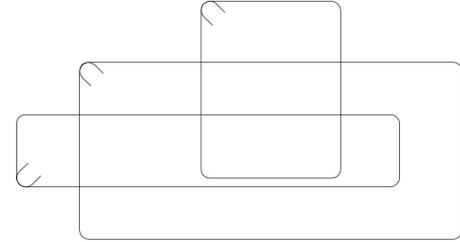
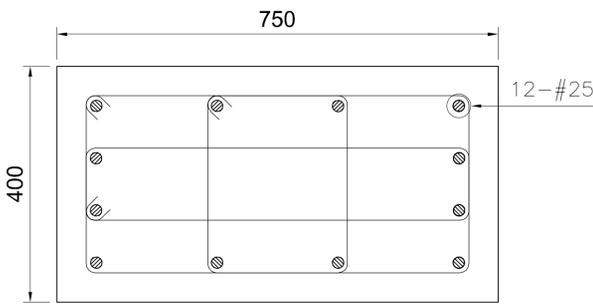
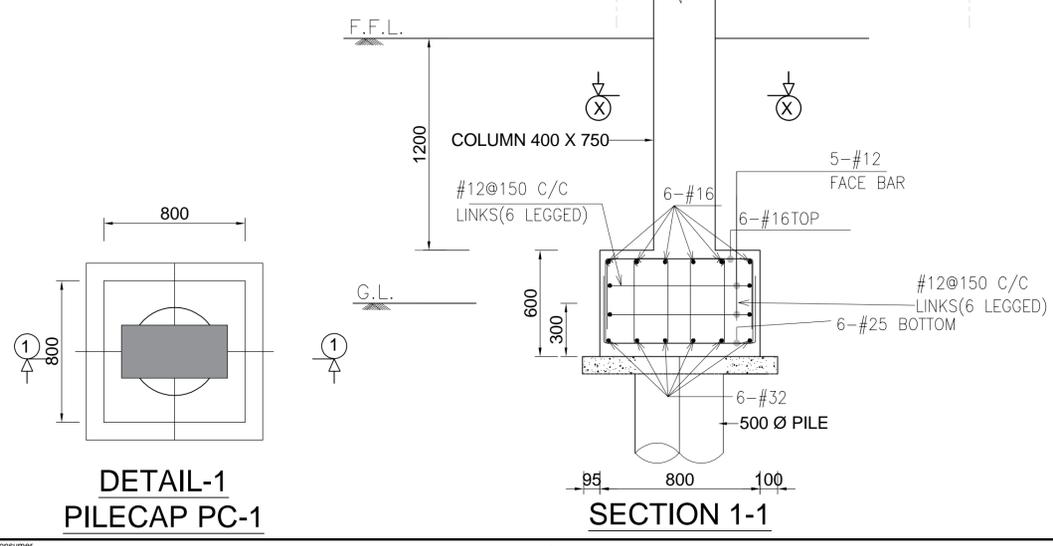
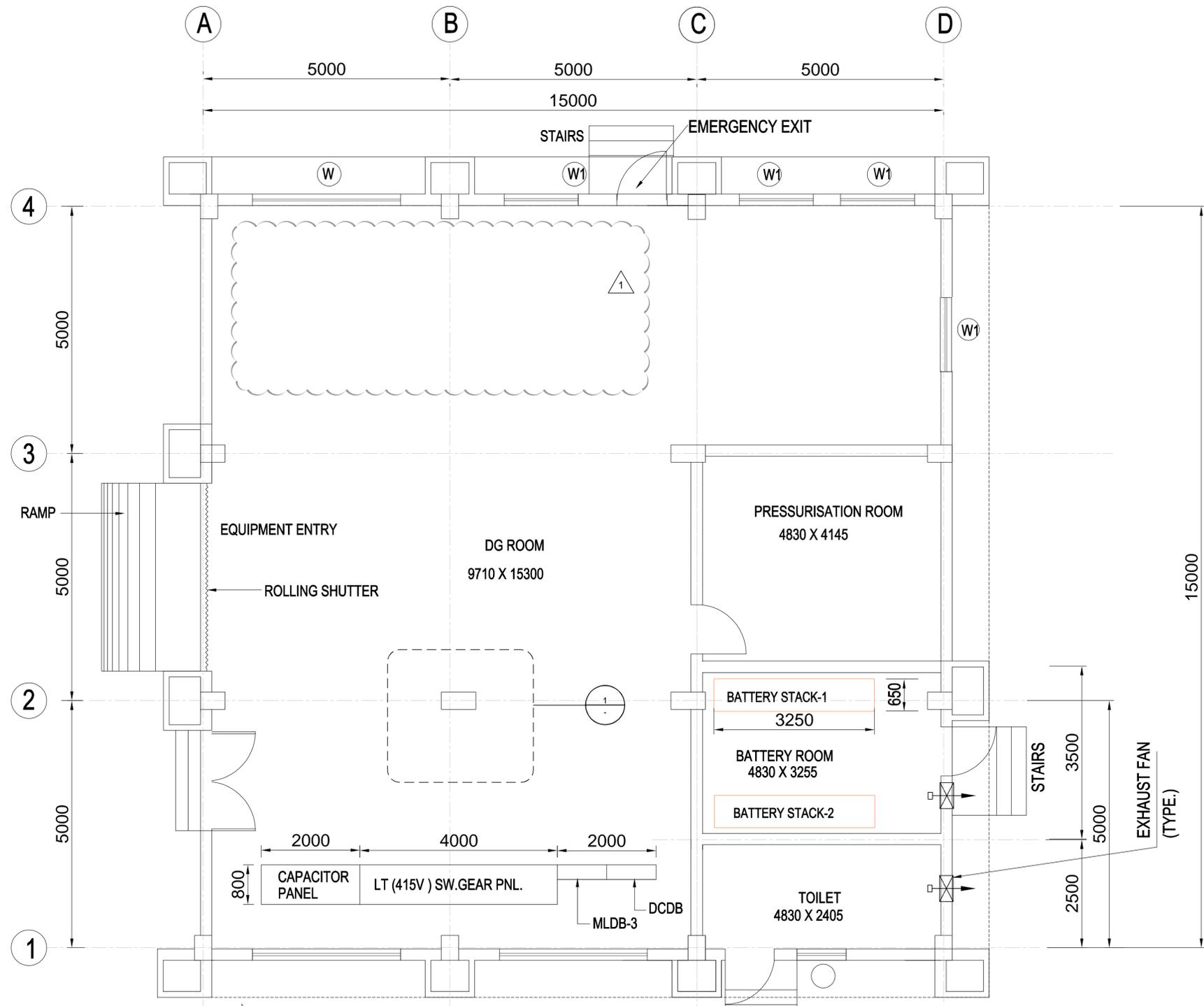
DRAWING TITLE: **OVERALL LAYOUT**

DRAWING NUMBER: 60614746-DWG - TD - 0000 - GN-1001 REV: 1





ISO A1 594mm x 841mm  
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 Checked: SS  
 Designer: SV  
 Project Management Initials:  
 20.02.2020  
 HT SW. GEAR PANEL DELETE  
 SV | TS | SG  
 DR | CH | APR  
 REVISION DETAILS  
 OWNER:  
 COCHIN PORT TRUST  
 PROJECT:  
 PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI  
 PART/DISCIPLINE:  
 DIMENSIONS ARE IN MILLIMETERS  
 PURPOSE:  
 DRAWING TITLE:  
 D.G. ROOM DETAILS AT GROUND FLOOR LEVEL  
 SHEET 01 OF 01  
 DRAWING NUMBER:  
 60614746-DWG - TD - 0000 - PL - 3006  
 REV. 1  
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- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS (m) UNLESS OTHERWISE SPECIFIED.
  - DIMENSIONS, LEVELS, SLOPES, etc. SHALL BE VERIFIED BEFORE LAYING SOIL AND LINER WORKS.
  - DIMENSIONS OF 620KVA DG SET, BATTERY RACK, CHARGER PANEL, 415V SWITCHGER, 630KVA, 6.6/0.433KV TRANSFORMER, AMF PANEL etc. TO BE CHECKED WITH THE MANUFACTURER'S DRAWINGS.

**ISSUED FOR TENDER**

REV.	DATE	DESCRIPTION	SV	TS	SG
1	20.02.2020	HT SW. GEAR PANEL DELETE	SV	TS	SG

OWNER: COCHIN PORT TRUST

PROJECT: PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI

PART/DISCIPLINE: DIMENSIONS ARE IN MILLIMETERS

PURPOSE:

DRAWING TITLE: D.G. ROOM DETAILS AT GROUND FLOOR LEVEL

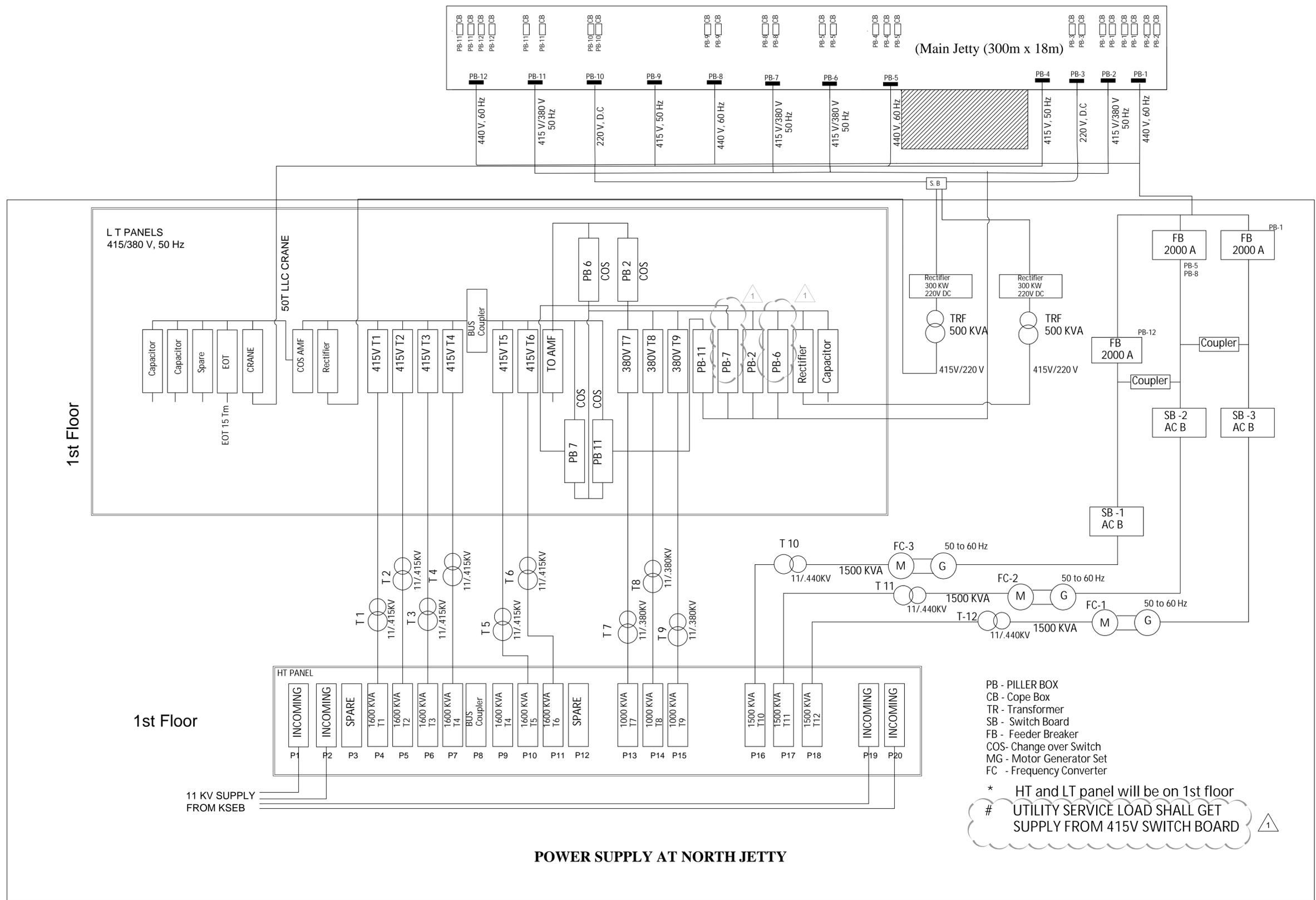
SHEET 01 OF 01

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REV. 1

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 Project Management Initials: Designer: SV Checked: SS Approved: SS  
 ISO A1 594mm x 841mm



PB - PILLER BOX  
 CB - Cope Box  
 TR - Transformer  
 SB - Switch Board  
 FB - Feeder Breaker  
 COS- Change over Switch  
 MG - Motor Generator Set  
 FC - Frequency Converter

\* HT and LT panel will be on 1st floor  
 # UTILITY SERVICE LOAD SHALL GET SUPPLY FROM 415V SWITCH BOARD

ISSUED FOR TENDER

REV.	DATE	DESCRIPTION	SV	TS	SG
1	20.02.2020	REVISED AS SHOWN			

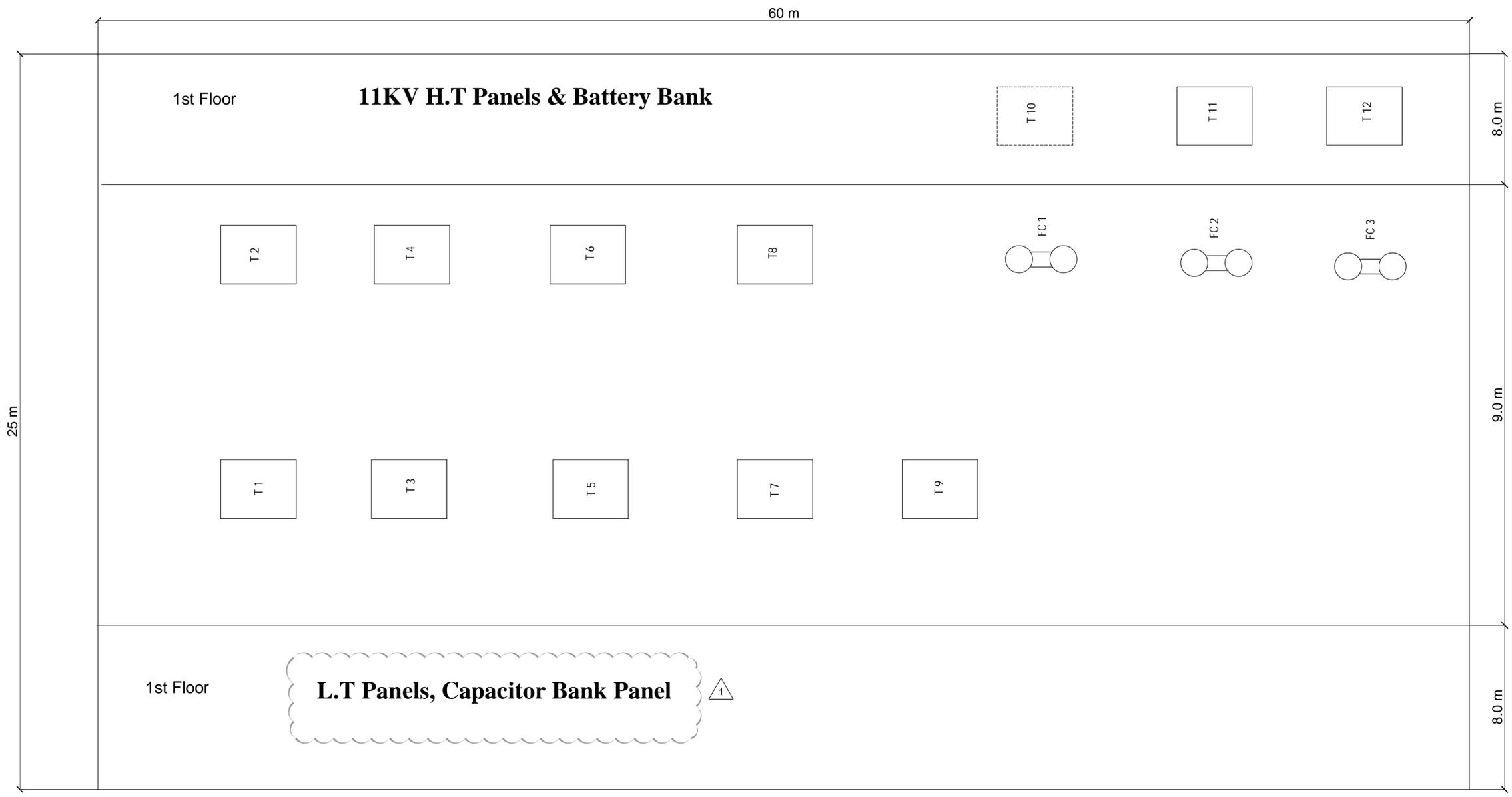
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PROJECT:	PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI
PART/DISCIPLINE:	DIMENSIONS ARE IN
PURPOSE:	
DRAWING TITLE:	SINGLE LINE DIAGRAM OF POWER SUPPLY AT NORTH JETTY
DRAWING NUMBER:	60614746-DWG - TD - 0000 - PL - 4005
REV.	1

SHEET 01 OF 01



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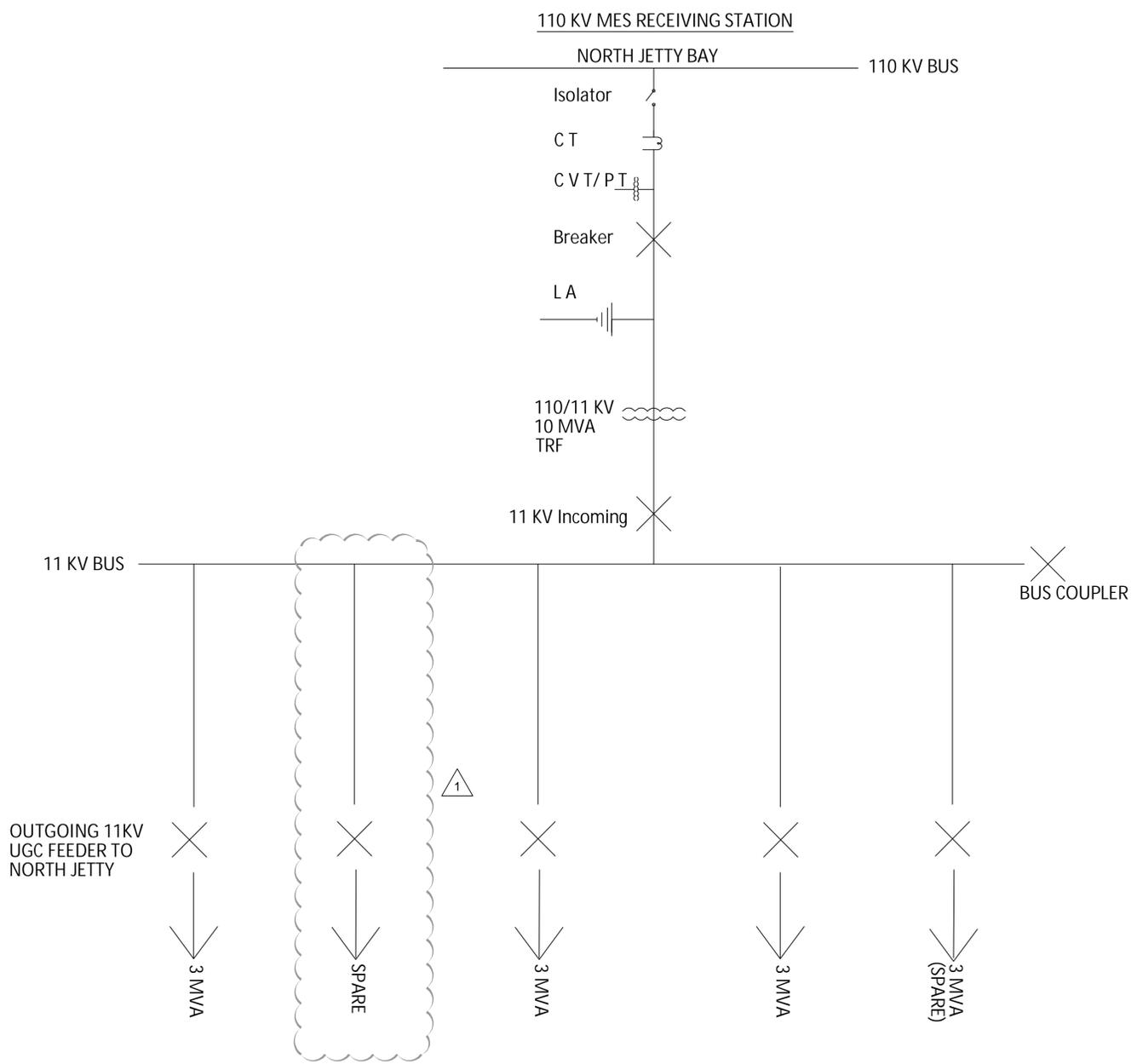
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OWNER:		COCHIN PORT TRUST	
PROJECT:		PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI	
PART/DISCIPLINE:	DIMENSIONS ARE IN		
PURPOSE:			
DRAWING TITLE:			
SUBSTATION LAYOUT			
DRAWING NUMBER:			REV.
60614746-DWG - TD - 0000 - PL - 4006			1

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 Checked: SS  
 Designer: SV  
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REV.	DATE	DESCRIPTION	SV	TS	SG
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1	20.02.2020	REVISED AS SHOWN			

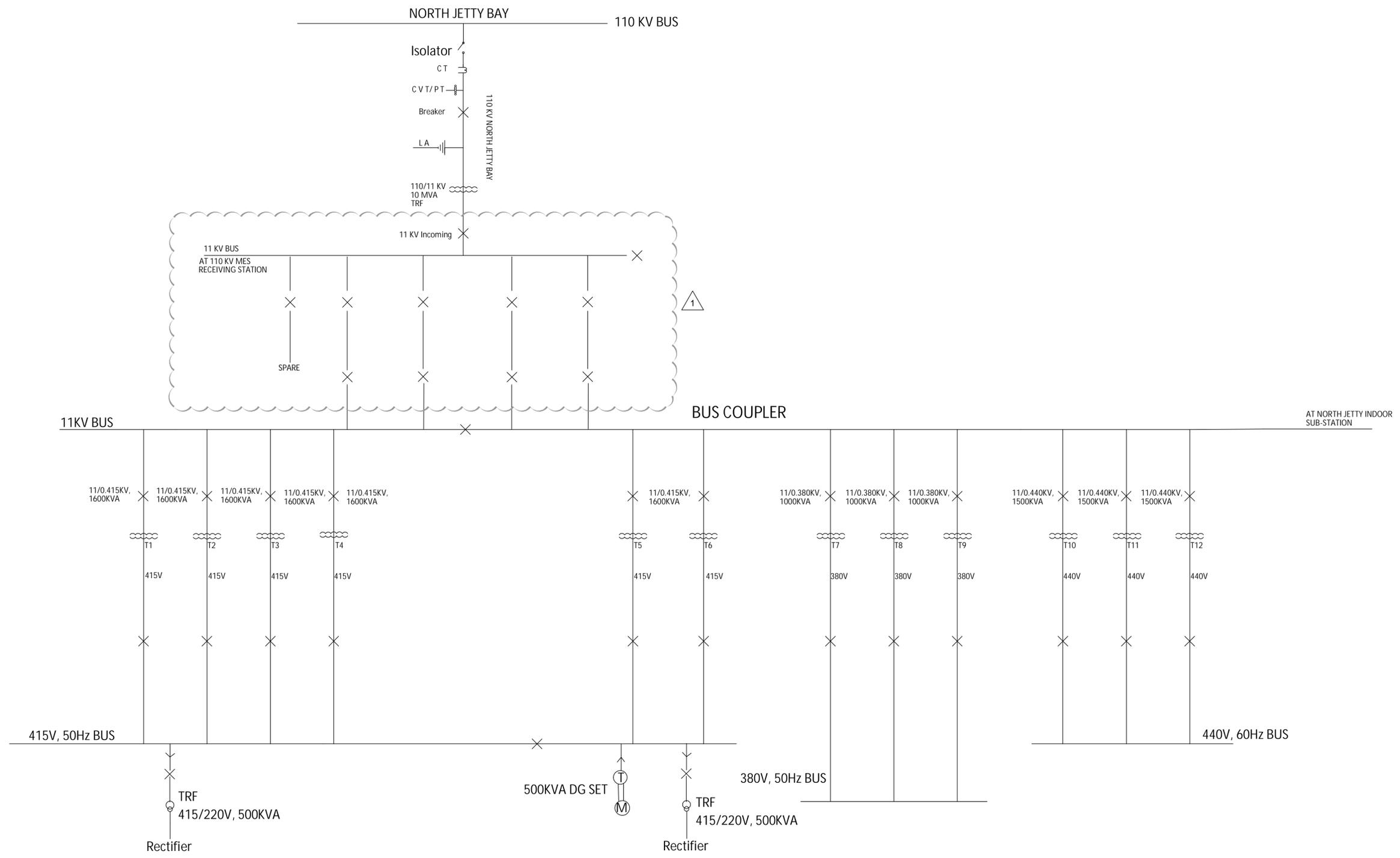
REVISION DETAILS

OWNER: <b>COCHIN PORT TRUST</b>	
PROJECT: <b>PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI</b>	
PART/DISCIPLINE:	DIMENSIONS ARE IN
PURPOSE:	
DRAWING TITLE: <b>110 KV MES RECEIVING STATION SINGLE LINE DIAGRAM</b>	
DRAWING NUMBER: <b>60614746-DWG - TD - 0000 - PL - 4008</b>	REV. <b>1</b>

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 Printed on % Post-Consumer Recycled Content Paper



NOTE:

TRF	T1, T2, T3, T4, T5, T6	11/0.415KV, 1600KVA
TRF	T7, T8, T9	11/0.380KV, 1000KVA
TRF	T10, T11, T12	11/0.440KV, 1500KVA

ISSUED FOR TENDER

REV.	DATE	DESCRIPTION	SV	TS	SG
1	20.02.2020	REVISED AS SHOWN			

OWNER: **COCHIN PORT TRUST**  
 PROJECT: **PMC SERVICES FOR RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI**  
 PART/DISCIPLINE: \_\_\_\_\_ DIMENSIONS ARE IN \_\_\_\_\_  
 PURPOSE: \_\_\_\_\_  
 DRAWING TITLE: **SINGLE LINE DIAGRAM PROPOSED POWER SUPPLY DIAGRAM FOR NORTH JETTY**

DRAWING NUMBER:	REV.
60614746-DWG - TD - 0000 - PL - 4009	1

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