

**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.7**

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

Sl. No.	Reference Clause No.	Section/ Volume	Modifications
1.	Form-6B	Section-4, Volume I,	<b><u>Add the following note under the table of Form-6B:</u></b> Note: (A) List all current contracts in progress which have started before the closing of the latest submitted Audited Balance Sheet (B) List all current contracts in progress which have started or to be started after the closing of the latest submitted Audited Balance Sheet.
2.	Clause C601.8	Section-6C, Volume II	<b><u>Replace the following in the data sheet under Clause C601.8:</u></b> Replace ' <b>2500</b> ' with ' <b>2 x 150</b> ' for 'Volume: NM <sup>3</sup> /hour'. Replace ' <b>8.6</b> ' with ' <b>13.8</b> ' for 'Pressure (Bar G)'. 
3.	Clause C913	Section-6C, Volume II	<b><u>Add following vendors under list of Approved makes:</u></b> <ul style="list-style-type: none"><li>• <u>Mukand</u></li><li>• <u>Potain</u></li></ul>
4.	Clause C1318.4.6	Section-6C, Volume II	<b><u>Modify the first sentence in the Clause C1318.4.6 with the following:</u></b> Bus trunking system shall be provided with two independent earthing GI conductors of suitable size to carry the fault current which shall run throughout the length of the system.
5.	Clause C1322.2.3	Section-6C, Volume II	<b>Clause C1322.2.3 stands deleted.</b>
6.	Clause C1322.2.4	Section-6C, Volume II	<b><u>Replace the Clause C1322.2.4 with the following:</u></b> C1322.2.4 Feeder pillar box shall be of outdoor KIOSK type cubicle weather and vermin proof suitable for rated voltage and current, and fabricate from 2mm thick stainless-steel sheet on suitable angle iron frame with shutters locking arrangement, etc.  Tentative rating and quantity of the cope box is given in the SLD. However, the Contractor shall provide the items as per the detailed design requirement. One (1) no. of feeder pillar box shall be provided as spare for each rating.
7.	Clause C1322.2.5	Section-6C, Volume II	<b>Clause C1322.2.5 to C1322.2.8 stands deleted.</b>

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Sl. No.	Reference Clause No.	Section/ Volume	Modifications								
8.	Clause C1324.2.1	Section-6C, Volume II	<p><b><u>Replace the following in Clause C1324.2.1:</u></b></p> <p><b>Replace</b> 'Tentative rating and quantity of the cope box is given below. However, contractor has to supply the item as per the detailed design requirement. 800A Cope Box (20 Nos):' <b>with</b></p> <p>'Tentative rating and quantity of the cope box is given in the SLD. However, the Contractor shall provide the item as per the detailed design requirement. Two (2) no. of cope box shall be provided as spare for each rating.'</p>								
9.	Clause C1324.2.2	Section-6C, Volume II	<p><b><u>Modify the following in Clause C1324.2.2:</u></b></p> <p>Delete '<b>of 800A</b>' from the Clause.</p>								
10.	Clause C1324.3	Section-6C, Volume II	<p><b>Clause C1324.3 to C1324.4.1 stands deleted.</b></p>								
11.	Clause C1325.1.5	Section-6C, Volume II	<p><b><u>Replace the Clause C1325.1.5 with the following:</u></b></p> <p>Cables of size 10 sq.mm and below shall be of copper. Cables of size 16 sq.mm and above shall be of aluminium.</p>								
12.	Clause C1336.1.1	Section-6C, Volume II	<p><b><u>Replace following sentence in the Clause C1336.1.1:</u></b></p> <p><b>Replace</b> 'The size of the trays shall be selected on the basis of maximum <b>40% fill criteria</b>' <b>with</b></p> <p>'The size of the trays shall be selected on the basis of maximum <b>80% fill criteria</b>'.</p>								
13.	Clause C1347.5.7	Section-6C, Volume II	<p><b><u>Modify the clause C1347.5.7 with the following:</u></b></p> <p>Steel racks shall be provided for batteries for multi-tier installation. These racks shall be made of good quality steel, acid and corrosion resistant. They shall be free standing type mounted on porcelain insulators. Numbering tags, resistant to acid for each cell shall be attached on to the necessary racks. The bottom tier of the stand shall not be less than 150 mm above the floor.</p>								
14.	Clause C1348.1.1	Section-6C, Volume II	<p><b><u>Modify the first sentence in the Clause C1348.1.1 with the following:</u></b></p> <p>The battery charger float cum boost charger (2x100% charger) with common battery bank (1x100% battery) and associated DC distribution board shall be used to provide control supply for the switchgear installed for power distribution system.</p>								
15.	Clause C1351.9	Section-6C, Volume II	<p><b><u>Add the following approved makes in the following clause C1351.9:</u></b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Equipment / Component</th> <th style="text-align: left;">Preferred Makes</th> </tr> </thead> <tbody> <tr> <td>Frequency converter</td> <td>Fuji Electric &amp; Danfoss</td> </tr> <tr> <td>Rectifier for 415/220V DC</td> <td>Hirect</td> </tr> <tr> <td>GI/Cu Earthing strips</td> <td>JMV/DEHN India/GIC Insuflex/ Bharat forge</td> </tr> </tbody> </table>	Equipment / Component	Preferred Makes	Frequency converter	Fuji Electric & Danfoss	Rectifier for 415/220V DC	Hirect	GI/Cu Earthing strips	JMV/DEHN India/GIC Insuflex/ Bharat forge
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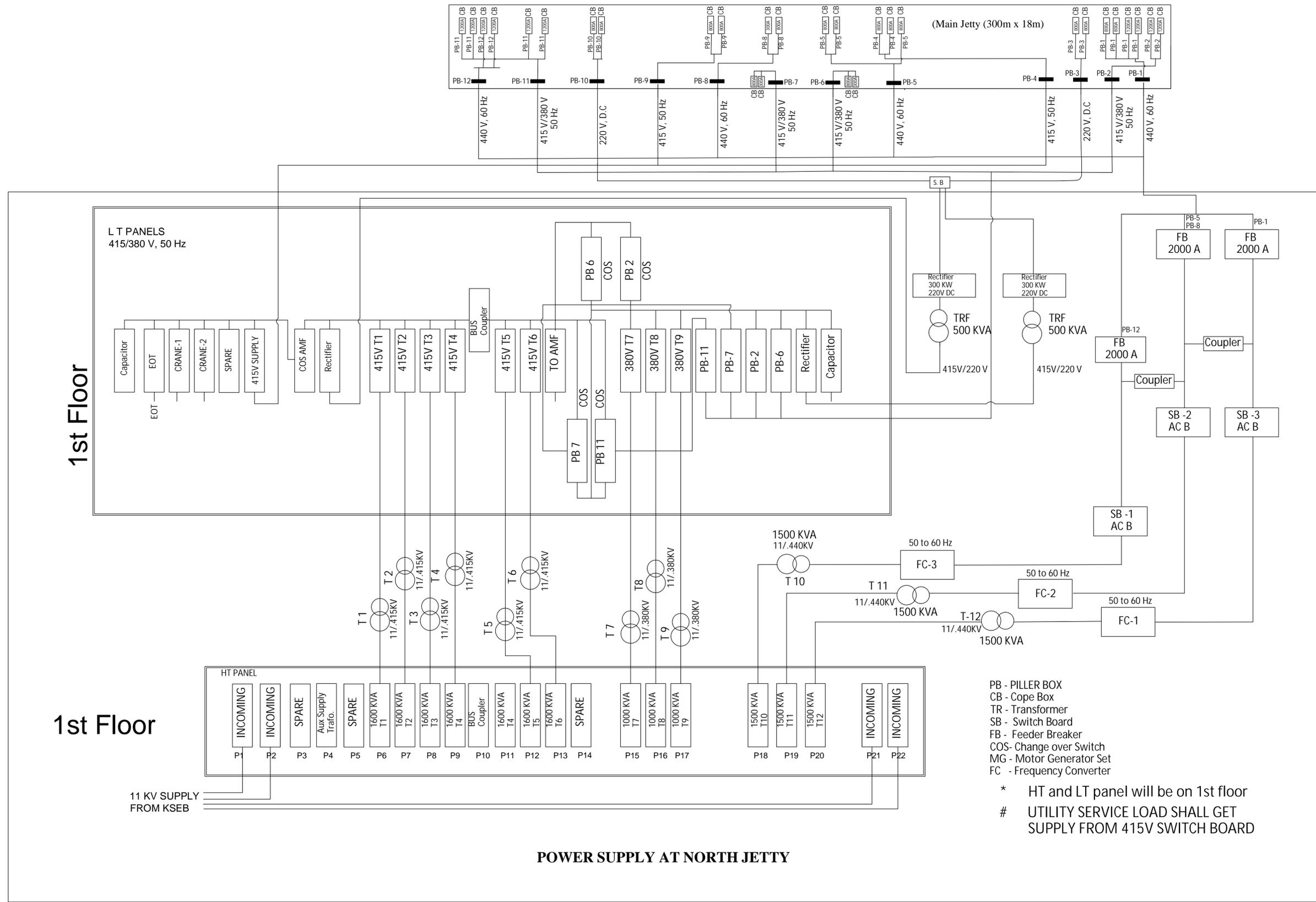
Sl. No.	Reference Clause No.	Section/ Volume	Modifications
16.	Clause 7A302.6	Section-7A, Volume II	<b><u>Add following sentence at the end of para (k):</u></b> MES SCADA shall control the equipment in the MES substation. North jetty SCADA shall control the equipment in the North jetty substation. Complete supervision & monitoring of both substations data shall be provided in both the substations.
17.	Clause 7A302	Section-7A, Volume II	<b><u>Add the following clause under Clause 7A302:</u></b> Clause 7A302.14 The order of precedence for the Employer's Requirements shall be as given below: i) Section 7A: Scope of Work ii) Section 7B: Design criteria iii) Section 6: Specifications iv) Section 7C: Drawings
18.	Clause 7A304.10.4	Section-7A, Volume II	<b><u>Add the following new clause under Clause 7A304.10:</u></b> Clause 7A304.10.4 Paved area shall be provided around the buildings and other onshore structures as per the instructions of the Employer during execution.
19.	Clause 7A304.14.1	Section-7A, Volume II	<b><u>Replace following in the Clause 7A304.14.1:</u></b> <b>Replace '7 bars' with '13.8 bar'</b> in first sentence of the clause.
20.	Clause 7B.2.6.3	Section-7B, Volume II	<b><u>Add the following para under the clause 7B.2.6.3</u></b> 10% of each vertical wheel load shall be considered as horizontal load at each wheel in operating condition.
21.	Sl.No.24 of Addendum No.5, Clause 7B.2.6.6	Addendum No.5, Section-7B, Volume II	<b><u>Modify the clause as stated below 'Current and Wave Load' para at the end of Clause 7B.2.6.6:</u></b> Design wave height of 0.5 m and 1 m shall be considered for operational and extreme conditions respectively. Time period of 8 seconds shall be considered in both cases. Wave load shall be considered along with the current load in the corresponding load combination.
22.	Clause 7B.3.12	Section-7B, Volume II	<b><u>Add the following sentence in the last para of Clause 7B.3.12:</u></b> Paver block area shall be designed for IRC Class AA or uniform load of 3 T/m <sup>2</sup> , whichever is critical.
23.	Clause 7B.3.13	Section-7B, Volume II	<b><u>Replace the following in Clause 7B.3.13:</u></b> In the first para of the clause, the word ' <b>R.C. Hume Pipes</b> ' shall be replaced with ' <b>R.C.C Box Culvert</b> '.
24.	Clause 7B.3.14	Section-7B, Volume II	<b><u>Replace following in the Clause 7B.3.14:</u></b> <b>Replace '7 bar' with '13.8 bar'</b> in second sentence of the clause.
25.	Clause 7B.3.16.6.1	Section-7B, Volume II	<b><u>Replace following in Clause 7B.3.16.6.1:</u></b> The value ' <b>450V</b> ' shall be replaced with ' <b>440V</b> ' in Sl.no.6 of the Table.

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26.	Clause 7B.3.16.6.4	Section-7B, Volume II	<p><b><u>Replace clause 7B.3.16.6.4 with the following:</u></b></p> <p>(1) VIKRANT(IAC) : 415V, 3 Ph, 50Hz : 5610 kVA                      (2) Other vessel load: 415V, 3 Ph, 50Hz : 825 kVA</p> <p>Hence total load on Scenario-III is 6435 kVA, rounded to 6500kVA.</p>						
27.	Clause 7B.3.16.10	Section-7B, Volume II	<p><b><u>Modify the second sentence of the clause 7B.3.16.10 with the following:</u></b></p> <p>The control room, lighting system, Fire Pumps, Ventilation system, UPS system, Jetty crane etc. should have standby supply facilities which should be brought into operation in the event of failure of the grid supply from KSEB.</p>						
28.	Clause 7B.3.16.11	Section-7B, Volume II	<p><b><u>Modify the clause 7B.3.16.11 as given below:</u></b>  <b><u>Delete the 3<sup>rd</sup> column</u></b> named '<b><u>Quantity</u></b>' of the table given under this clause.  <b><u>Replace S.No.14 and 21</u></b> of the table with the following:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>Low Pressure compressors</td> </tr> <tr> <td>21</td> <td>Hammerhead Cranes (50 T capacity)</td> </tr> </tbody> </table>	S. No.	Particulars	14	Low Pressure compressors	21	Hammerhead Cranes (50 T capacity)
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29.	Sl.No.33 of Addendum No.5, Clause 7B.3.16.15	Addendum No.5, Section-7B, Volume II	<p><b><u>Replace fourth para under clause 7B.3.16.15 with the following:</u></b></p> <p>Panels made up of special material called "Aluminium Zinc". The painting to be done as per manufacturer standards.</p>						
30.	Clause 7B.3.16.27	Section-7B, Volume II	<p><b><u>Modify the last para in the clause 7B.3.16.27 with the following:</u></b></p> <p>DG set shall feed supply to the Lighting system in the Building &amp; outdoor, Crane, ELV equipment, Control Room, Fire Pumps, Ventilation system, UPS system etc. during primary source failure.</p>						
31.	Drawings	Section-7C, Volume II	<p><b><u>Replace Drawings 60614746-DWG-TD-0000-PL-4005, Rev.1 and 60614746-DWG-TD-0000-PL-4007</u></b> with following Drawings</p> <p><b><u>60614746-DWG-TD-0000-PL-4005, Rev.2 and 60614746-DWG-TD-0000-PL-4007, Rev.1.</u></b></p>						

Sl. No.	Reference Clause No.	Section/ Volume	Modifications
32.	Sl.No.41 of Addendum No.5, Sub-clause 14.1	Addendum No.5, Section-9, Volume III	<p><b><u>Modify Sub-Clause 14.1 as below:</u></b></p> <p><b><u>Add the following after the last paragraph:</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> <p>Nothing in the Contract shall relieve the Contractor from its responsibility to pay any tax including any tax that may be levied in India on profits made by it in respect of the Contract.</p>
33.	Sl.No.37 of Addendum No.5, Sub-clause 14.3	Addendum No.5, Section-9, Volume III	<p><b><u>Modify Sub-Clause 14.3 as below:</u></b></p> <p><b><u>Replace 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 subject however to a minimum amount of Rs.4 crores (INR Four crores only) for qualifying to release the amount against Bank Guarantee.</p>

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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

REV	DATE	DESCRIPTION	DR	CH	APR
2	26.03.2020	REVISED	SV	TS	SG
1	20.02.2020	REVISED AS SHOWN	SV	TS	SG

REVISION DETAILS

OWNER: **COCHIN PORT TRUST**

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

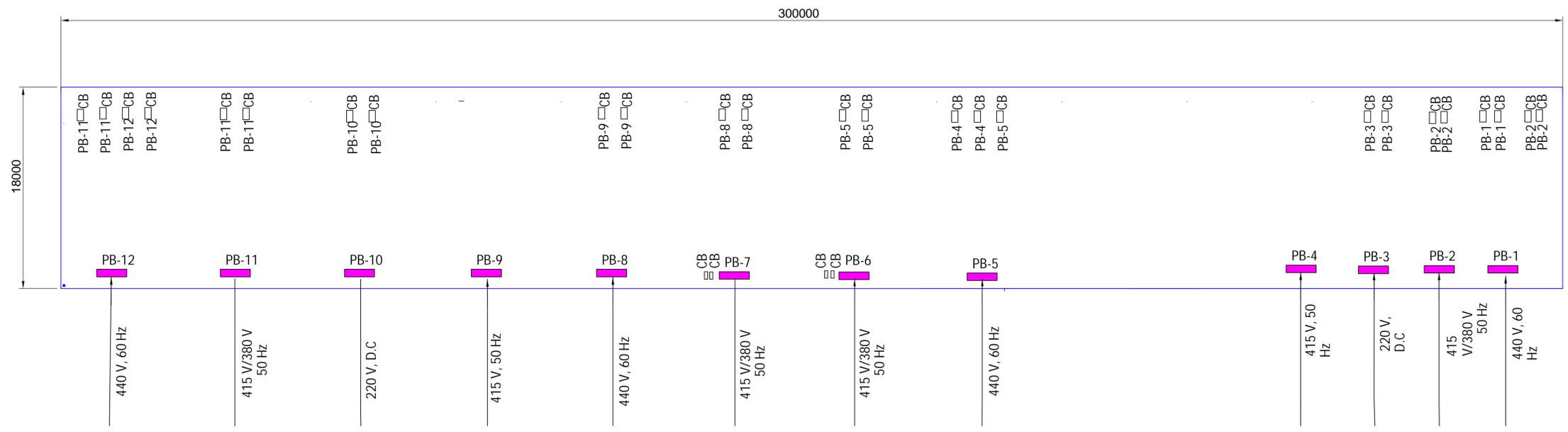
PART/DISCIPLINE: \_\_\_\_\_ DIMENSIONS ARE IN: \_\_\_\_\_

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

DRAWING TITLE: **SINGLE LINE DIAGRAM OF POWER SUPPLY OF NORTH JETTY**

DRAWING NUMBER: **60614746-DWG-TD-0000-PL-4005** REV. **2**





REV	DATE	DESCRIPTION	SV	RN	SG
1	26.03.2020	REVISED			

REVISION DETAILS

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: LOCATION OF PILLAR BOXES AND COPE BOXES

DRAWING NUMBER: 60614746-DWG-TD-0000-PL-4007

REV. 1

