

TD-106-1 Rev No. 5	Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD		OE 5 6 1 3 2 Rev No. 00 PAGE 1 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.		MANUFACTURE AND SUPPLY OF FLY ASH PIPE RACK (ALONG UV ROW) STRUCTURES FOR MAITREE 2X660 STPP 1. OBJECTIVE: The objective of this specification is to manufacture and supply of fly ash pipe rack (along uv row) structures for 2x660 STPP Maitree project, Bangladesh. 2. SCOPE: The scope comprises of material procurement and manufacturing as per drawings, quality plan, marking, packaging and dispatch to Chennai port. Manufacturing scope comprises of fabrication of support structure including columns, platforms beams, platform gallery and platform bracings etc, inspection (as per approved quality plan), grit blasting and painting of all components. Scope includes procurement of HSFG fasteners etc. Manufacture of transport crates as per BHEL drawings including raw material procurement of crate is also part of vendor scope. Gratings, handrails is not in vendor's scope of supply. Detailed fabrication Drawings and part lists will be provided by BHEL. Vendor to manufacture exactly as per BHEL drawings and all material specification shall be as mentioned in this specification. Nothing in this specification shall be construed to relieve the Vendor of his responsibility for compliance with the applicable documents/standards. Any conflict between the applicable documents and this specification shall be brought to the attention of BHEL Engineering for resolution. 3. BHEL SPECIFICATIONS AND DOCUMENTATION - Plate and rolled section material specification – HY10170 - Fly ash Pipe rack (along UV row) GA & Marking Drawing – 19613210001 - Quality plan for AHP/CHP structures - QP NO.: MAIT:C&AHP: R4R5-R4R6 - Painting schedule - PS:MAIT:PG:R676&R4R5 - High Strength Friction Grip Fasteners – TDC:6:388 - Customer Approved vendor list for Structural steel material -. QA:AS:MAIT:01 - Packing Crate drawings – Refer Annexure I - Detailed fabrication drawings- Refer Annexure II 4. FABRICATION DETAIL REQUIREMENTS: Fabrication should be strictly as per BHEL drawings and QAP.			
		Ref. Doc	Revisions : Refer to record of revisions :	Prepared : Karthike	Approved : Rajeev Kumar

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2		
			Rev No. 00		
			PAGE 2 of 35		

COPYRIGHT AND CONFIDENTIAL
 The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .
 It must not be used directly or indirectly in any way detrimental to the interest of the company.

5. MATERIALS

Materials used in the fabrication of fly ash pipe rack (along uv row) shall be new, clean, rust free and straightened if necessary before being worked.

a) All structural steel material – E350GR SA/IS 2062 as per BHEL standard HY10170.
 b) Chequered plate – DIN 5922 / BS EN 10363 or Equivalent
Customer Approved vendor list for above Material (a,b): Refer Doc. QA:AS:MAIT:01
 c) All high strength structural bolts shall be of property class 10.9 conforming to BS EN 14399-3 or equivalent for dimension & BS EN ISO 898-1 or equivalent for mechanical properties.
 d) All nuts & washers for high strength bolts (H.S.F.G.) shall of property class 10, confirming to BS EN 14399-3 or equivalent & BS EN 14399-5 or equivalent respectively.

6. GRIT BLASTING AND PAINTING OF ALL STRUCTURES: As per following table

a. For all structural elements, Packing crates,

Surface preparation & surface profile	Primer coat		Intermediate coat		Finish coat			Total DFT μ (min)
	Paint	No of coats/ DFT	Paint	No of coats	Paint	No of coats	Sha de	
Blast cleaning to SA 2½	Epoxy zinc phosphate IS 13238	01/ DFT=80μ/ coat	Epoxy based polyamide cured MIO pigmented intermediate coat	02/ DFT= 80μ/ Coat Total= 160μ	Two component Aliphatic acrylic polyurethane paint IS 13213 #	01/ DFT= 50 μ/ coat; #	Winds grey (RAL 7040)	290
#- To be applied at site (Finish coat paint not in Vendor scope) As per Sl no: 05 of MAITREE-0-BFA-FF-100000-GEN, Rev.03								

b. Fasteners, Foundation Bolts- & Threaded portion for structures.

Temporary rust preventive oil dry type (**)- DFT- 40μ
 (**)- Sea worthy rust preventive oil as per PRQA 524
 (Non-threaded portion of Foundation bolts (If applicable) – Red oxide can be applied; DFT- 30μ)

Customer approved Paint suppliers for structural works follow as :

1) M/s Shalimar Paints
 2) M/s Jenson and Nicholson
 3) M/s Kansai Nerolac
 4) M/s Akzo Nobel
 5) M/s Asian paints

TD-106-2 Rev No. 5	Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2 Rev No. 00 PAGE 3 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		7. LIST OF DRAWINGS: Refer Annexure –I 8. LIST OF DISPATCH UNITS (DU): Refer corresponding Annexure in Variant Table 9. SUBMITTALS The vendor shall supply the following documentation to BHEL after the job completion - One set of complete manufacturing inspection records that include material test certificates (after completion of manufacture) as per enclosed quality plan. - Deviation, if any, resulting in a material or process substitution shall be submitted to BHEL Engineers for review and approval. - One set of dispatch documents after dispatch. 10. WELDING - Welders carrying out the fabrication activities, shall be AWS D1.1(Latest revision)-qualified - Welding procedures shall be qualified as per AWS D1.1(Latest revision)-PQR, WQR, WPS. - Full penetration welds/ Butt Welds shall undergo RT/UT as per QAP. - Fillet welds shall undergo LPI/MPI as per QP. 11. MARKING, PACKAGING AND SHIPPING Marking- - DU number and erection mark shall be marked by hard punching and also by painting at both ends of each DU. - Structural elements which cannot be marked as above shall have metal tags with the necessary markings on them. The metal tags shall be securely attached to the packages with strong steel binding wire. Each piece shipped separately shall be labelled or tagged properly Packaging – - DU's which are less than 1.6MT should be packed in crates. Crates shall be manufactured as per BHEL drawings. - Packing list should contain detailed contents of the package. - Two 50mm wide Green & Red touching bands around perimeter of package positioned at two locations should be provided.		
Ref. Doc		Shipping- Material should be dispatched to Chennai Port.		

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2																																																																																																					
			Rev No. 00																																																																																																					
			PAGE 4 of 35																																																																																																					
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	12. WARRANTY By acceptance of a purchase order based on this specification, the supplier represents that he has examined and evaluated this specification and that all the information needed for the manufacture and supply of “Fly Ash Pipe Rack (Along UV row)” is included in this specification. If the supplier needs more technical information he will contact, in writing, BHEL Engineering or the concerned BHEL Purchase officer. While installing the component(s) at customer works, any problem arises due to poor workmanship, vendor has to rectify or replace the component(s) free of cost.																																																																																																							
	<u>TABLE OF COMPLIANCE: OE56132</u> Vendor to fill up table of compliance, attest and submit along with technical bid. <table border="1"> <thead> <tr> <th>CLAUSE NO</th> <th>CONFIRMS (YES/NO)</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td>1.0</td><td></td><td></td></tr> <tr><td>2.0</td><td></td><td></td></tr> <tr><td>3.0)a</td><td></td><td></td></tr> <tr><td>3.0)b</td><td></td><td></td></tr> <tr><td>3.0)c</td><td></td><td></td></tr> <tr><td>3.0)d</td><td></td><td></td></tr> <tr><td>3.0)e</td><td></td><td></td></tr> <tr><td>3.0)f</td><td></td><td></td></tr> <tr><td>3.0)g</td><td></td><td></td></tr> <tr><td>3.0)h</td><td></td><td></td></tr> <tr><td>4.0</td><td></td><td></td></tr> <tr><td>5.0)a</td><td></td><td></td></tr> <tr><td>5.0)b</td><td></td><td></td></tr> <tr><td>5.0)c</td><td></td><td></td></tr> <tr><td>5.0)d</td><td></td><td></td></tr> <tr><td>6.0)a</td><td></td><td></td></tr> <tr><td>6.0)b</td><td></td><td></td></tr> <tr><td>7.0</td><td></td><td></td></tr> <tr><td>8.0</td><td></td><td></td></tr> <tr><td>9.0)a</td><td></td><td></td></tr> <tr><td>9.0)b</td><td></td><td></td></tr> <tr><td>9.0)c</td><td></td><td></td></tr> <tr><td>10.0)a</td><td></td><td></td></tr> <tr><td>10.0)b</td><td></td><td></td></tr> <tr><td>10.0)c</td><td></td><td></td></tr> <tr><td>10.0)d</td><td></td><td></td></tr> <tr><td>11.0)a</td><td></td><td></td></tr> <tr><td>11.0)b</td><td></td><td></td></tr> <tr><td>11.0)c</td><td></td><td></td></tr> <tr><td>11.0)d</td><td></td><td></td></tr> <tr><td>11.0)e</td><td></td><td></td></tr> <tr><td>11.0)f</td><td></td><td></td></tr> <tr><td>12.0</td><td></td><td></td></tr> </tbody> </table>			CLAUSE NO	CONFIRMS (YES/NO)	REMARKS	1.0			2.0			3.0)a			3.0)b			3.0)c			3.0)d			3.0)e			3.0)f			3.0)g			3.0)h			4.0			5.0)a			5.0)b			5.0)c			5.0)d			6.0)a			6.0)b			7.0			8.0			9.0)a			9.0)b			9.0)c			10.0)a			10.0)b			10.0)c			10.0)d			11.0)a			11.0)b			11.0)c			11.0)d			11.0)e			11.0)f			12.0	
CLAUSE NO	CONFIRMS (YES/NO)	REMARKS																																																																																																						
1.0																																																																																																								
2.0																																																																																																								
3.0)a																																																																																																								
3.0)b																																																																																																								
3.0)c																																																																																																								
3.0)d																																																																																																								
3.0)e																																																																																																								
3.0)f																																																																																																								
3.0)g																																																																																																								
3.0)h																																																																																																								
4.0																																																																																																								
5.0)a																																																																																																								
5.0)b																																																																																																								
5.0)c																																																																																																								
5.0)d																																																																																																								
6.0)a																																																																																																								
6.0)b																																																																																																								
7.0																																																																																																								
8.0																																																																																																								
9.0)a																																																																																																								
9.0)b																																																																																																								
9.0)c																																																																																																								
10.0)a																																																																																																								
10.0)b																																																																																																								
10.0)c																																																																																																								
10.0)d																																																																																																								
11.0)a																																																																																																								
11.0)b																																																																																																								
11.0)c																																																																																																								
11.0)d																																																																																																								
11.0)e																																																																																																								
11.0)f																																																																																																								
12.0																																																																																																								
Ref. Doc																																																																																																								

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2
			Rev No. 00
			PAGE 5 of 35

COPYRIGHT AND CONFIDENTIAL
 The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .
 It must not be used directly or indirectly in any way detrimental to the interest of the company.

PRODUCT VARIANT TABLE

VAR	DESCRIPTION	MATERIAL CODE	WEIGHT (KG)	SCOPE
01	PF BEAMS - GROUP 1 -FA PIPE RACK(UV)	OE9756132019	125,252	ANNEXURE III
02	PF BEAMS - GROUP 2 -FA PIPE RACK(UV)	OE9756132027	126,544	ANNEXURE IV
03	PF BEAMS - GROUP 3 -FA PIPE RACK(UV)	OE9756132035	100,278	ANNEXURE V
04	PF BEAMS - GROUP 4 -FA PIPE RACK(UV)	OE9756132043	107,730	ANNEXURE VI
05	COLUMNS OF FA PIPE RACK(UV)	OE9756132051	104,002	ANNEXURE VII
06	PF GALLERY AND BRACINGS -PIPE RACK UV	OE9756132060	142,791	ANNEXURE VIII

ANNEXURE I- PACKING CRATE DRAWINGS

SL.No.	PACKING CRATE	DRAWING No.
1	STEEL BOX 3X2.5X1.5m CAP.10MT	1-35-390-25157
2	STEEL BOX 6X2.5X1.5M CAP.20MT	1-35-390-25159
3	STEEL BOX 13X2.5X1.5M CAP.25MT	1-35-390-25161
4	OPEN STEEL CRATE 12.5X2.5X2.0M CAP.25MT	1-35-390-30655
5	OPEN STEEL CRATE 12.5X2.5X2.5M CAP.25MT	1-35-390-30656
6	STEEL BASE FRAME 12.5X2.5M CAP.25MT	1-35-390-27066
7	STEEL BASE FRAME 13.6X3.7Mtrs CAP.25MT	1-52-220-03132
8	STEEL BOX 5.5X2.7X2.35M CAP.20MT	1-52-220-03133
9	STEEL BASE FRAME 9X2.5Mtrs CAP.20MT	1-TS-000-01080
10	STEEL BOX(Crate)10.5X3.6X2.5Mtrs CAP.25MT	1-79-000-07045

ANNEXURE II - LIST OF DRAWINGS:

SI.No	DESCRIPTION	DRAWING NUMBER
1	GA, MARKING PLAN & ELEVATION	09613210001
2	DETAIL OF PLATFROM BEAM	09613210002
3	DETAIL OF PLATFROM BEAM	09613210003
4	DETAIL OF PLATFROM BEAM	09613210004
5	DETAIL OF PLATFROM BEAM	09613210005
6	DETAIL OF PLATFROM BEAM	09613210006
7	DETAIL OF PLATFROM BEAM	09613210007
8	DETAIL OF PLATFROM BEAM	09613210008
9	DETAIL OF PLATFROM BEAM	09613210009
10	DETAIL OF PLATFROM BEAM	09613210010
11	DETAIL OF PLATFROM BEAM	09613210011
12	DETAIL OF PLATFROM GALLERY	09613210012
13	DETAIL OF PLATFROM GALLERY	09613210013
14	DETAIL OF PLATFROM GALLERY	09613210014

Ref. Doc

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2																																																																																					
			Rev No. 00																																																																																					
			PAGE 6 of 35																																																																																					
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	<table border="1"> <tr><td>15</td><td>DETAIL OF PLATFROM GALLERY</td><td>09613210015</td></tr> <tr><td>16</td><td>DETAIL OF PLATFROM BEAM</td><td>09613210016</td></tr> <tr><td>17</td><td>DETAIL OF PLATFROM BEAM</td><td>09613210017</td></tr> <tr><td>18</td><td>DETAIL OF PLATFROM BEAM</td><td>09613210018</td></tr> <tr><td>19</td><td>DETAIL OF PLATFROM BEAM</td><td>09613210019</td></tr> <tr><td>20</td><td>DETAIL OF PLATFROM BEAM</td><td>09613210020</td></tr> <tr><td>21</td><td>DETAIL OF PLATFROM BEAM</td><td>09613210021</td></tr> <tr><td>22</td><td>DETAIL OF PLATFORM GALLERY GRATING</td><td>09613210022</td></tr> <tr><td>23</td><td>DETAIL OF COLUMN</td><td>09613210023</td></tr> <tr><td>24</td><td>DETAIL OF COLUMN</td><td>09613210024</td></tr> <tr><td>25</td><td>DETAIL OF COLUMN</td><td>09613210025</td></tr> <tr><td>26</td><td>DETAIL OF COLUMN</td><td>09613210026</td></tr> <tr><td>27</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210027</td></tr> <tr><td>28</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210028</td></tr> <tr><td>29</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210029</td></tr> <tr><td>30</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210030</td></tr> <tr><td>31</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210031</td></tr> <tr><td>32</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210032</td></tr> <tr><td>33</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210033</td></tr> <tr><td>34</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210034</td></tr> <tr><td>35</td><td>DETAIL OF PLATFROM BRACING</td><td>09613210035</td></tr> </table>				15	DETAIL OF PLATFROM GALLERY	09613210015	16	DETAIL OF PLATFROM BEAM	09613210016	17	DETAIL OF PLATFROM BEAM	09613210017	18	DETAIL OF PLATFROM BEAM	09613210018	19	DETAIL OF PLATFROM BEAM	09613210019	20	DETAIL OF PLATFROM BEAM	09613210020	21	DETAIL OF PLATFROM BEAM	09613210021	22	DETAIL OF PLATFORM GALLERY GRATING	09613210022	23	DETAIL OF COLUMN	09613210023	24	DETAIL OF COLUMN	09613210024	25	DETAIL OF COLUMN	09613210025	26	DETAIL OF COLUMN	09613210026	27	DETAIL OF PLATFROM BRACING	09613210027	28	DETAIL OF PLATFROM BRACING	09613210028	29	DETAIL OF PLATFROM BRACING	09613210029	30	DETAIL OF PLATFROM BRACING	09613210030	31	DETAIL OF PLATFROM BRACING	09613210031	32	DETAIL OF PLATFROM BRACING	09613210032	33	DETAIL OF PLATFROM BRACING	09613210033	34	DETAIL OF PLATFROM BRACING	09613210034	35	DETAIL OF PLATFROM BRACING	09613210035																					
	15	DETAIL OF PLATFROM GALLERY	09613210015																																																																																					
	16	DETAIL OF PLATFROM BEAM	09613210016																																																																																					
	17	DETAIL OF PLATFROM BEAM	09613210017																																																																																					
	18	DETAIL OF PLATFROM BEAM	09613210018																																																																																					
	19	DETAIL OF PLATFROM BEAM	09613210019																																																																																					
	20	DETAIL OF PLATFROM BEAM	09613210020																																																																																					
	21	DETAIL OF PLATFROM BEAM	09613210021																																																																																					
	22	DETAIL OF PLATFORM GALLERY GRATING	09613210022																																																																																					
	23	DETAIL OF COLUMN	09613210023																																																																																					
	24	DETAIL OF COLUMN	09613210024																																																																																					
	25	DETAIL OF COLUMN	09613210025																																																																																					
	26	DETAIL OF COLUMN	09613210026																																																																																					
	27	DETAIL OF PLATFROM BRACING	09613210027																																																																																					
	28	DETAIL OF PLATFROM BRACING	09613210028																																																																																					
	29	DETAIL OF PLATFROM BRACING	09613210029																																																																																					
	30	DETAIL OF PLATFROM BRACING	09613210030																																																																																					
	31	DETAIL OF PLATFROM BRACING	09613210031																																																																																					
	32	DETAIL OF PLATFROM BRACING	09613210032																																																																																					
	33	DETAIL OF PLATFROM BRACING	09613210033																																																																																					
	34	DETAIL OF PLATFROM BRACING	09613210034																																																																																					
	35	DETAIL OF PLATFROM BRACING	09613210035																																																																																					
	ANNEXURE III - OE9756132019 PF BEAMS - GROUP 1																																																																																							
	A. FABRICATION ITEMS – TOTAL WEIGHT 123298 KG																																																																																							
	<table border="1"> <thead> <tr> <th>DU NO</th> <th>DESCRIPTION</th> <th>ERECTION MARK</th> <th>WEIGHT/UNIT(KG.)</th> <th>QTY</th> <th>DRAWING NUMBER</th> </tr> </thead> <tbody> <tr><td>96132-01</td><td>PLATFROM BEAM</td><td>PB-20</td><td>1056.651</td><td>3</td><td>09613210002</td></tr> <tr><td>96132-02</td><td>PLATFROM BEAM</td><td>PB-22</td><td>1060.443</td><td>1</td><td>09613210002</td></tr> <tr><td>96132-03</td><td>PLATFROM BEAM</td><td>PB-23</td><td>1057.186</td><td>2</td><td>09613210002</td></tr> <tr><td>96132-04</td><td>PLATFROM BEAM</td><td>PB-21</td><td>1057.447</td><td>2</td><td>09613210002</td></tr> <tr><td>96132-05</td><td>PLATFROM BEAM</td><td>PB-24</td><td>1057.447</td><td>1</td><td>09613210002</td></tr> <tr><td>96132-06</td><td>PLATFROM BEAM</td><td>PB-26</td><td>960.946</td><td>2</td><td>09613210002</td></tr> <tr><td>96132-07</td><td>PLATFROM BEAM</td><td>PB-25</td><td>1426.728</td><td>1</td><td>09613210002</td></tr> <tr><td>96132-08</td><td>PLATFROM BEAM</td><td>PB-27</td><td>1426.728</td><td>1</td><td>09613210002</td></tr> <tr><td>96132-09</td><td>PLATFROM BEAM</td><td>PB-28</td><td>1064.668</td><td>1</td><td>09613210002</td></tr> <tr><td>96132-10</td><td>PLATFROM BEAM</td><td>PB-29</td><td>1571.470</td><td>1</td><td>09613210002</td></tr> <tr><td>96132-11</td><td>PLATFROM BEAM</td><td>PB-50</td><td>1071.962</td><td>2</td><td>09613210005</td></tr> <tr><td>96132-12</td><td>PLATFROM BEAM</td><td>PB-52</td><td>1071.773</td><td>4</td><td>09613210005</td></tr> <tr><td>96132-13</td><td>PLATFROM BEAM</td><td>PB-54</td><td>1071.962</td><td>1</td><td>09613210005</td></tr> </tbody> </table>				DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT(KG.)	QTY	DRAWING NUMBER	96132-01	PLATFROM BEAM	PB-20	1056.651	3	09613210002	96132-02	PLATFROM BEAM	PB-22	1060.443	1	09613210002	96132-03	PLATFROM BEAM	PB-23	1057.186	2	09613210002	96132-04	PLATFROM BEAM	PB-21	1057.447	2	09613210002	96132-05	PLATFROM BEAM	PB-24	1057.447	1	09613210002	96132-06	PLATFROM BEAM	PB-26	960.946	2	09613210002	96132-07	PLATFROM BEAM	PB-25	1426.728	1	09613210002	96132-08	PLATFROM BEAM	PB-27	1426.728	1	09613210002	96132-09	PLATFROM BEAM	PB-28	1064.668	1	09613210002	96132-10	PLATFROM BEAM	PB-29	1571.470	1	09613210002	96132-11	PLATFROM BEAM	PB-50	1071.962	2	09613210005	96132-12	PLATFROM BEAM	PB-52	1071.773	4	09613210005	96132-13	PLATFROM BEAM	PB-54	1071.962	1	09613210005
	DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT(KG.)	QTY	DRAWING NUMBER																																																																																		
	96132-01	PLATFROM BEAM	PB-20	1056.651	3	09613210002																																																																																		
	96132-02	PLATFROM BEAM	PB-22	1060.443	1	09613210002																																																																																		
	96132-03	PLATFROM BEAM	PB-23	1057.186	2	09613210002																																																																																		
	96132-04	PLATFROM BEAM	PB-21	1057.447	2	09613210002																																																																																		
	96132-05	PLATFROM BEAM	PB-24	1057.447	1	09613210002																																																																																		
	96132-06	PLATFROM BEAM	PB-26	960.946	2	09613210002																																																																																		
	96132-07	PLATFROM BEAM	PB-25	1426.728	1	09613210002																																																																																		
	96132-08	PLATFROM BEAM	PB-27	1426.728	1	09613210002																																																																																		
	96132-09	PLATFROM BEAM	PB-28	1064.668	1	09613210002																																																																																		
96132-10	PLATFROM BEAM	PB-29	1571.470	1	09613210002																																																																																			
96132-11	PLATFROM BEAM	PB-50	1071.962	2	09613210005																																																																																			
96132-12	PLATFROM BEAM	PB-52	1071.773	4	09613210005																																																																																			
96132-13	PLATFROM BEAM	PB-54	1071.962	1	09613210005																																																																																			
Ref. Doc																																																																																								

TD-106-2 Rev No. 5		बी एच ई एल BHEL	PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD				OE 5 6 1 3 2	
Form No.							Rev No. 00	
							PAGE 7 of 35	
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.			96132-14	PLATFROM BEAM	PB-55	1071.290	1	09613210005
			96132-15	PLATFROM BEAM	PB-57	1073.449	1	09613210005
			96132-16	PLATFROM BEAM	PB-56A	1071.583	2	09613210005
			96132-17	PLATFROM BEAM	PB-53	1069.085	2	09613210005
			96132-18	PLATFROM BEAM	PB-56	1600.741	2	09613210005
			96132-19	PLATFROM BEAM	PB-56A	1071.583	2	09613210005
			96132-20	PLATFROM BEAM	PB-56B	1064.245	2	09613210005
			96132-21	PLATFROM BEAM	PB-58	1604.423	1	09613210005
			96132-22	PLATFROM BEAM	PB-59	1452.739	1	09613210005
			96132-23	PLATFROM BEAM	PB-61	1439.530	1	09613210005
			96132-24	PLATFROM BEAM	PB-60	970.470	1	09613210005
			96132-25	PLATFROM BEAM	PB-62	1430.971	1	09613210005
			96132-26	PLATFROM BEAM	PB-63	1431.401	1	09613210005
			96132-27	PLATFROM BEAM	PB-238	1442.603	1	09613210007
			96132-28	PLATFROM BEAM	PB-239	1054.618	1	09613210007
			96132-29	PLATFROM BEAM	PB-240	777.172	1	09613210007
			96132-30	PLATFROM BEAM	PB-241	56.435	1	09613210007
			96132-31	PLATFROM BEAM	PB-242	77.636	1	09613210007
			96132-32	PLATFROM BEAM	PB-242A	79.572	1	09613210007
			96132-33	PLATFROM BEAM	PB-243	67.180	1	09613210007
			96132-34	PLATFROM BEAM	PB-244	73.304	1	09613210007
			96132-35	PLATFROM BEAM	PB-245	71.368	1	09613210007
			96132-36	PLATFROM BEAM	PB-246	69.746	1	09613210007
			96132-37	PLATFROM BEAM	PB-247	67.399	1	09613210007
			96132-38	PLATFROM BEAM	PB-248	63.792	1	09613210007
			96132-39	PLATFROM BEAM	PB-249	39.158	21	09613210007
			96132-40	PLATFROM BEAM	PB-250	36.375	7	09613210007
			96132-41	PLATFROM BEAM	PB-251	39.230	2	09613210007
			96132-42	PLATFROM BEAM	PB-252	39.303	2	09613210007
			96132-43	PLATFROM BEAM	PB-253	32.043	2	09613210007
			96132-44	PLATFROM BEAM	PB-254	54.960	1	09613210007
			96132-45	PLATFROM BEAM	PB-255	49.515	1	09613210007
			96132-46	PLATFROM BEAM	PB-256	45.740	1	09613210007
			96132-47	PLATFROM BEAM	PB-257	41.215	1	09613210007
			96132-48	PLATFROM BEAM	PB-258	54.983	1	09613210007
			96132-49	PLATFROM BEAM	PB-259	48.691	1	09613210007
			96132-50	PLATFROM BEAM	PB-260	45.134	1	09613210007
			96132-51	PLATFROM BEAM	PB-261	40.947	1	09613210007
			96132-52	PLATFROM BEAM	PB-262	22.024	1	09613210007
			96132-53	PLATFROM BEAM	PB-264	1124.283	1	09613210007
			96132-54	PLATFROM BEAM	PB-265	1398.443	1	09613210007

Ref. Doc

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2																																																																																																																																																																																																											
			Rev No. 00																																																																																																																																																																																																											
			PAGE 8 of 35																																																																																																																																																																																																											
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company. <table border="1" style="width: 65%;"> <tr><td>96132-55</td><td>PLATFROM BEAM</td><td>PB-263</td><td>625.228</td><td>1</td><td>09613210007</td></tr> <tr><td>96132-56</td><td>PLATFROM BEAM</td><td>PB-272 / 1</td><td>7005.682</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-57</td><td>PLATFROM BEAM</td><td>PB-272X / 1</td><td>7005.682</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-58</td><td>PLATFROM BEAM</td><td>PB-272 / 2</td><td>5926.633</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-59</td><td>PLATFROM BEAM</td><td>PB-272X / 2</td><td>5926.633</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-60</td><td>PLATFROM BEAM</td><td>PB-266</td><td>1550.367</td><td>2</td><td>09613210008</td></tr> <tr><td>96132-61</td><td>PLATFROM BEAM</td><td>PB-266X</td><td>1550.367</td><td>2</td><td>09613210008</td></tr> <tr><td>96132-62</td><td>PLATFROM BEAM</td><td>PB-267</td><td>875.326</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-63</td><td>PLATFROM BEAM</td><td>PB-267X</td><td>875.326</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-64</td><td>PLATFROM BEAM</td><td>PB-268</td><td>875.326</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-65</td><td>PLATFROM BEAM</td><td>PB-268X</td><td>875.326</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-66</td><td>PLATFROM BEAM</td><td>PB-269</td><td>2749.317</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-67</td><td>PLATFROM BEAM</td><td>PB-269X</td><td>2749.317</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-68</td><td>PLATFROM BEAM</td><td>PB-273</td><td>1847.125</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-69</td><td>PLATFROM BEAM</td><td>PB-273X</td><td>1847.125</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-70</td><td>PLATFROM BEAM</td><td>PB-270</td><td>2456.264</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-71</td><td>PLATFROM BEAM</td><td>PB-270X</td><td>2456.264</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-72</td><td>PLATFROM BEAM</td><td>PB-274</td><td>953.608</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-73</td><td>PLATFROM BEAM</td><td>PB-274X</td><td>953.608</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-74</td><td>PLATFROM BEAM</td><td>PB-271</td><td>3407.472</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-75</td><td>PLATFROM BEAM</td><td>PB-271X</td><td>3407.472</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-76</td><td>PLATFROM BEAM</td><td>PB-275</td><td>1853.150</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-77</td><td>PLATFROM BEAM</td><td>PB-275X</td><td>1853.150</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-78</td><td>PLATFROM BEAM</td><td>PB-276</td><td>1821.416</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-79</td><td>PLATFROM BEAM</td><td>PB-276X</td><td>1821.416</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-80</td><td>PLATFROM BEAM</td><td>PB-277</td><td>1071.985</td><td>1</td><td>09613210008</td></tr> <tr><td>96132-81</td><td>PLATFROM BEAM</td><td>PB-277X</td><td>1071.985</td><td>1</td><td>09613210008</td></tr> </table> B. <u>LIST OF FASTENERS</u> TOTAL WEIGHT – 1954 Kg (To be supplied As per TDC:6:388) <table border="1" style="width: 100%;"> <thead> <tr> <th>DU NO</th> <th>DESCRIPTION</th> <th>ERECTION MARK</th> <th>WEIGHT/UNIT(KG.)</th> <th>QTY</th> </tr> </thead> <tbody> <tr><td>96132-F01</td><td>H.T.BOLT Gr-10.9</td><td>M24-50 LG.</td><td>0.276</td><td>904</td></tr> <tr><td>96132-F02</td><td>H.T.BOLT Gr-10.9</td><td>M24-60 LG.</td><td>0.312</td><td>744</td></tr> <tr><td>96132-F03</td><td>H.T.BOLT Gr-10.9</td><td>M24-65 LG.</td><td>0.330</td><td>324</td></tr> <tr><td>96132-F04</td><td>H.T.BOLT Gr-10.9</td><td>M24-90 LG.</td><td>0.420</td><td>1536</td></tr> <tr><td>96132-F06</td><td>H.T.BOLT Gr-10.9</td><td>M24-140 LG.</td><td>0.598</td><td>336</td></tr> <tr><td>96132-F12</td><td>NUT</td><td>M24</td><td>0.104</td><td>3844</td></tr> <tr><td>96132-F13</td><td>WASHER</td><td>A26</td><td>0.031</td><td>3844</td></tr> </tbody> </table>					96132-55	PLATFROM BEAM	PB-263	625.228	1	09613210007	96132-56	PLATFROM BEAM	PB-272 / 1	7005.682	1	09613210008	96132-57	PLATFROM BEAM	PB-272X / 1	7005.682	1	09613210008	96132-58	PLATFROM BEAM	PB-272 / 2	5926.633	1	09613210008	96132-59	PLATFROM BEAM	PB-272X / 2	5926.633	1	09613210008	96132-60	PLATFROM BEAM	PB-266	1550.367	2	09613210008	96132-61	PLATFROM BEAM	PB-266X	1550.367	2	09613210008	96132-62	PLATFROM BEAM	PB-267	875.326	1	09613210008	96132-63	PLATFROM BEAM	PB-267X	875.326	1	09613210008	96132-64	PLATFROM BEAM	PB-268	875.326	1	09613210008	96132-65	PLATFROM BEAM	PB-268X	875.326	1	09613210008	96132-66	PLATFROM BEAM	PB-269	2749.317	1	09613210008	96132-67	PLATFROM BEAM	PB-269X	2749.317	1	09613210008	96132-68	PLATFROM BEAM	PB-273	1847.125	1	09613210008	96132-69	PLATFROM BEAM	PB-273X	1847.125	1	09613210008	96132-70	PLATFROM BEAM	PB-270	2456.264	1	09613210008	96132-71	PLATFROM BEAM	PB-270X	2456.264	1	09613210008	96132-72	PLATFROM BEAM	PB-274	953.608	1	09613210008	96132-73	PLATFROM BEAM	PB-274X	953.608	1	09613210008	96132-74	PLATFROM BEAM	PB-271	3407.472	1	09613210008	96132-75	PLATFROM BEAM	PB-271X	3407.472	1	09613210008	96132-76	PLATFROM BEAM	PB-275	1853.150	1	09613210008	96132-77	PLATFROM BEAM	PB-275X	1853.150	1	09613210008	96132-78	PLATFROM BEAM	PB-276	1821.416	1	09613210008	96132-79	PLATFROM BEAM	PB-276X	1821.416	1	09613210008	96132-80	PLATFROM BEAM	PB-277	1071.985	1	09613210008	96132-81	PLATFROM BEAM	PB-277X	1071.985	1	09613210008	DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT(KG.)	QTY	96132-F01	H.T.BOLT Gr-10.9	M24-50 LG.	0.276	904	96132-F02	H.T.BOLT Gr-10.9	M24-60 LG.	0.312	744	96132-F03	H.T.BOLT Gr-10.9	M24-65 LG.	0.330	324	96132-F04	H.T.BOLT Gr-10.9	M24-90 LG.	0.420	1536	96132-F06	H.T.BOLT Gr-10.9	M24-140 LG.	0.598	336	96132-F12	NUT	M24	0.104	3844	96132-F13	WASHER	A26	0.031	3844
96132-55	PLATFROM BEAM	PB-263	625.228	1	09613210007																																																																																																																																																																																																									
96132-56	PLATFROM BEAM	PB-272 / 1	7005.682	1	09613210008																																																																																																																																																																																																									
96132-57	PLATFROM BEAM	PB-272X / 1	7005.682	1	09613210008																																																																																																																																																																																																									
96132-58	PLATFROM BEAM	PB-272 / 2	5926.633	1	09613210008																																																																																																																																																																																																									
96132-59	PLATFROM BEAM	PB-272X / 2	5926.633	1	09613210008																																																																																																																																																																																																									
96132-60	PLATFROM BEAM	PB-266	1550.367	2	09613210008																																																																																																																																																																																																									
96132-61	PLATFROM BEAM	PB-266X	1550.367	2	09613210008																																																																																																																																																																																																									
96132-62	PLATFROM BEAM	PB-267	875.326	1	09613210008																																																																																																																																																																																																									
96132-63	PLATFROM BEAM	PB-267X	875.326	1	09613210008																																																																																																																																																																																																									
96132-64	PLATFROM BEAM	PB-268	875.326	1	09613210008																																																																																																																																																																																																									
96132-65	PLATFROM BEAM	PB-268X	875.326	1	09613210008																																																																																																																																																																																																									
96132-66	PLATFROM BEAM	PB-269	2749.317	1	09613210008																																																																																																																																																																																																									
96132-67	PLATFROM BEAM	PB-269X	2749.317	1	09613210008																																																																																																																																																																																																									
96132-68	PLATFROM BEAM	PB-273	1847.125	1	09613210008																																																																																																																																																																																																									
96132-69	PLATFROM BEAM	PB-273X	1847.125	1	09613210008																																																																																																																																																																																																									
96132-70	PLATFROM BEAM	PB-270	2456.264	1	09613210008																																																																																																																																																																																																									
96132-71	PLATFROM BEAM	PB-270X	2456.264	1	09613210008																																																																																																																																																																																																									
96132-72	PLATFROM BEAM	PB-274	953.608	1	09613210008																																																																																																																																																																																																									
96132-73	PLATFROM BEAM	PB-274X	953.608	1	09613210008																																																																																																																																																																																																									
96132-74	PLATFROM BEAM	PB-271	3407.472	1	09613210008																																																																																																																																																																																																									
96132-75	PLATFROM BEAM	PB-271X	3407.472	1	09613210008																																																																																																																																																																																																									
96132-76	PLATFROM BEAM	PB-275	1853.150	1	09613210008																																																																																																																																																																																																									
96132-77	PLATFROM BEAM	PB-275X	1853.150	1	09613210008																																																																																																																																																																																																									
96132-78	PLATFROM BEAM	PB-276	1821.416	1	09613210008																																																																																																																																																																																																									
96132-79	PLATFROM BEAM	PB-276X	1821.416	1	09613210008																																																																																																																																																																																																									
96132-80	PLATFROM BEAM	PB-277	1071.985	1	09613210008																																																																																																																																																																																																									
96132-81	PLATFROM BEAM	PB-277X	1071.985	1	09613210008																																																																																																																																																																																																									
DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT(KG.)	QTY																																																																																																																																																																																																										
96132-F01	H.T.BOLT Gr-10.9	M24-50 LG.	0.276	904																																																																																																																																																																																																										
96132-F02	H.T.BOLT Gr-10.9	M24-60 LG.	0.312	744																																																																																																																																																																																																										
96132-F03	H.T.BOLT Gr-10.9	M24-65 LG.	0.330	324																																																																																																																																																																																																										
96132-F04	H.T.BOLT Gr-10.9	M24-90 LG.	0.420	1536																																																																																																																																																																																																										
96132-F06	H.T.BOLT Gr-10.9	M24-140 LG.	0.598	336																																																																																																																																																																																																										
96132-F12	NUT	M24	0.104	3844																																																																																																																																																																																																										
96132-F13	WASHER	A26	0.031	3844																																																																																																																																																																																																										
Ref. Doc																																																																																																																																																																																																														

TD-106-2 Rev No. 5	Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2			
				Rev No. 00			
				PAGE 9 of 35			
<u>ANNEXURE IV - OE9756132027 PF BEAMS - GROUP 2</u> <u>A. FABRICATION ITEMS – TOTAL WEIGHT 126544 KG</u>							
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	Ref. Doc	DU NO	DESCRIPTION	ERECTION MARK	WEIGHT /UNIT (KG.)	QTY	DRAWING No.
		96132-82	PLATFROM BEAM	PB-210	75.458	5	09613210006
		96132-83	PLATFROM BEAM	PB-211	33.180	14	09613210006
		96132-84	PLATFROM BEAM	PB-212	33.180	42	09613210006
		96132-85	PLATFROM BEAM	PB-213	33.180	2	09613210006
		96132-86	PLATFROM BEAM	PB-214	39.230	8	09613210006
		96132-87	PLATFROM BEAM	PB-215	39.230	8	09613210006
		96132-88	PLATFROM BEAM	PB-216	33.180	6	09613210006
		96132-89	PLATFROM BEAM	PB-217	59.078	22	09613210006
		96132-90	PLATFROM BEAM	PB-218	58.881	8	09613210006
		96132-91	PLATFROM BEAM	PB-225	97.374	1	09613210006
		96132-92	PLATFROM BEAM	PB-219	17.378	19	09613210006
		96132-93	PLATFROM BEAM	PB-220	18.467	1	09613210006
		96132-94	PLATFROM BEAM	PB-221	17.378	13	09613210006
		96132-95	PLATFROM BEAM	PB-222	37.173	1	09613210006
		96132-96	PLATFROM BEAM	PB-223	53.097	1	09613210006
		96132-97	PLATFROM BEAM	PB-224	77.930	1	09613210006
		96132-98	PLATFROM BEAM	PB-226	39.303	4	09613210006
		96132-99	PLATFROM BEAM	PB-227	23.694	2	09613210006
		96132-100	PLATFROM BEAM	PB-228	31.685	3	09613210006
		96132-101	PLATFROM BEAM	PB-229	14.881	29	09613210006
		96132-102	PLATFROM BEAM	PB-230	21.806	1	09613210006
		96132-103	PLATFROM BEAM	PB-231	31.970	1	09613210006
		96132-104	PLATFROM BEAM	PB-232	75.147	1	09613210006
		96132-105	PLATFROM BEAM	PB-233	73.180	1	09613210006
		96132-106	PLATFROM BEAM	PB-234	1432.387	1	09613210006
		96132-107	PLATFROM BEAM	PB-235	1477.756	1	09613210006
		96132-108	PLATFROM BEAM	PB-237	1499.554	1	09613210006
		96132-109	PLATFROM BEAM	PB-236	1494.175	1	09613210006
		96132-110	PLATFROM BEAM	PB-1	3478.217	1	09613210009
		96132-111	PLATFROM BEAM	PB-2	3310.865	1	09613210009
		96132-112	PLATFROM BEAM	PB-3	3309.021	1	09613210009
		96132-113	PLATFROM BEAM	PB-4	3308.149	1	09613210009
		96132-114	PLATFROM BEAM	PB-5	3306.940	1	09613210009
		96132-115	PLATFROM BEAM	PB-6	3333.022	1	09613210009
		96132-116	PLATFROM BEAM	PB-7	2995.719	1	09613210009
		96132-117	PLATFROM BEAM	PB-8	3070.866	1	09613210009
		96132-118	PLATFROM BEAM	PB-9	2963.092	1	09613210009

TD-106-2 Rev No. 5	Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD				OE 5 6 1 3 2	
							Rev No. 00	
							PAGE 10 of 35	
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		96132-119	PLATFROM BEAM	PB-10	2990.458	1	09613210009	
		96132-120	PLATFROM BEAM	PB-19A	2940.528	1	09613210009	
		96132-121	PLATFROM BEAM	PB-11	3451.723	1	09613210009	
		96132-122	PLATFROM BEAM	PB-11A	3341.152	1	09613210009	
		96132-123	PLATFROM BEAM	PB-14	3323.847	1	09613210009	
		96132-124	PLATFROM BEAM	PB-16	3323.847	1	09613210009	
		96132-125	PLATFROM BEAM	PB-15	3325.399	1	09613210009	
		96132-126	PLATFROM BEAM	PB-17	3326.145	1	09613210009	
		96132-127	PLATFROM BEAM	PB-18	3382.312	1	09613210009	
		96132-128	PLATFROM BEAM	PB-19	3327.696	1	09613210009	
		96132-129	PLATFROM BEAM	PB-12	3341.061	1	09613210009	
		96132-130	PLATFROM BEAM	PB-13	3335.260	1	09613210009	
		96132-131	PLATFROM BEAM	PB-174	119.131	3	09613210010	
		96132-132	PLATFROM BEAM	PB-175	121.068	1	09613210010	
		96132-133	PLATFROM BEAM	PB-175X	121.068	1	09613210010	
		96132-134	PLATFROM BEAM	PB-176	122.260	1	09613210010	
		96132-135	PLATFROM BEAM	PB-176X	122.260	1	09613210010	
		96132-136	PLATFROM BEAM	PB-177	123.005	2	09613210010	
		96132-137	PLATFROM BEAM	PB-178	119.269	6	09613210010	
		96132-138	PLATFROM BEAM	PB-179	123.143	1	09613210010	
		96132-139	PLATFROM BEAM	PB-179X	123.143	1	09613210010	
		96132-140	PLATFROM BEAM	PB-180	122.260	2	09613210010	
		96132-141	PLATFROM BEAM	PB-180X	122.260	2	09613210010	
		96132-142	PLATFROM BEAM	PB-181	121.206	4	09613210010	
		96132-143	PLATFROM BEAM	PB-182	73.671	57	09613210010	
		96132-144	PLATFROM BEAM	PB-183	13.551	8	09613210010	
		96132-145	PLATFROM BEAM	PB-184	13.551	4	09613210010	
		96132-146	PLATFROM BEAM	PB-185	14.881	80	09613210010	
		96132-147	PLATFROM BEAM	PB-186	55.033	3	09613210010	
		96132-148	PLATFROM BEAM	PB-187	56.970	1	09613210010	
		96132-149	PLATFROM BEAM	PB-188	101.118	1	09613210010	
		96132-150	PLATFROM BEAM	PB-2A	1091.740	2	09613210010	
96132-151	PLATFROM BEAM	PB-51	1067.533	1	09613210010			
96132-152	PLATFROM BEAM	PB-44	1360.407	1	09613210010			
96132-153	PLATFROM BEAM	PB-189	1301.973	1	09613210010			
96132-154	PLATFROM BEAM	PB-191	1287.886	2	09613210010			
96132-155	PLATFROM BEAM	PB-192	1285.764	3	09613210010			
96132-156	PLATFROM BEAM	PB-64	66.431	13	09613210016			
96132-157	PLATFROM BEAM	PB-64X	66.431	7	09613210016			
96132-158	PLATFROM BEAM	PB-65	68.520	7	09613210016			
96132-159	PLATFROM BEAM	PB-65X	68.520	7	09613210016			
96132-160	PLATFROM BEAM	PB-66	70.457	1	09613210016			

TD-106-2 Rev No. 5		Form No.	बी एच ई एल  PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD				OE 5 6 1 3 2	
			Rev No. 00					
			PAGE 11 of 35					
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.			96132-161	PLATFROM BEAM	PB-67	66.659	29	09613210016
			96132-162	PLATFROM BEAM	PB-68	68.596	9	09613210016
			96132-163	PLATFROM BEAM	PB-68X	68.596	9	09613210016
			96132-164	PLATFROM BEAM	PB-69	70.533	1	09613210016
			96132-165	PLATFROM BEAM	PB-70	74.305	4	09613210016
			96132-166	PLATFROM BEAM	PB-71	76.242	1	09613210016
			96132-167	PLATFROM BEAM	PB-71X	76.242	1	09613210016
			96132-168	PLATFROM BEAM	PB-72	63.408	8	09613210016
			96132-169	PLATFROM BEAM	PB-72A	63.408	10	09613210016
			96132-170	PLATFROM BEAM	PB-73	65.345	1	09613210016
			96132-171	PLATFROM BEAM	PB-73X	65.345	1	09613210016
			96132-172	PLATFROM BEAM	PB-74	65.345	2	09613210016
			96132-173	PLATFROM BEAM	PB-74X	65.345	2	09613210016
			96132-174	PLATFROM BEAM	PB-75	67.282	2	09613210016
			96132-175	PLATFROM BEAM	PB-77	63.408	19	09613210016
			96132-176	PLATFROM BEAM	PB-78	65.345	4	09613210016
			96132-177	PLATFROM BEAM	PB-78X	65.345	4	09613210016
			96132-178	PLATFROM BEAM	PB-79	68.520	2	09613210016
			96132-179	PLATFROM BEAM	PB-79X	68.520	2	09613210016
			96132-180	PLATFROM BEAM	PB-80	53.883	7	09613210016
			96132-181	PLATFROM BEAM	PB-81	55.820	2	09613210016
			96132-182	PLATFROM BEAM	PB-81X	55.820	2	09613210016
			96132-183	PLATFROM BEAM	PB-82	53.959	11	09613210016
			96132-184	PLATFROM BEAM	PB-82A	55.896	3	09613210016
			96132-185	PLATFROM BEAM	PB-82AX	55.896	3	09613210016
			96132-186	PLATFROM BEAM	PB-83	53.883	20	09613210016
			96132-187	PLATFROM BEAM	PB-84	55.820	6	09613210016
			96132-188	PLATFROM BEAM	PB-84X	55.820	6	09613210016
			96132-189	PLATFROM BEAM	PB-85	58.963	16	09613210016
			96132-190	PLATFROM BEAM	PB-86	60.900	6	09613210016
			96132-191	PLATFROM BEAM	PB-86X	60.900	6	09613210016
			96132-192	PLATFROM BEAM	PB-87	59.039	29	09613210016
			96132-193	PLATFROM BEAM	PB-88	60.976	8	09613210016
			96132-194	PLATFROM BEAM	PB-88X	60.976	8	09613210016
			96132-195	PLATFROM BEAM	PB-89	60.900	4	09613210016
			96132-196	PLATFROM BEAM	PB-89X	60.900	4	09613210016
			96132-197	PLATFROM BEAM	PB-90	30.847	8	09613210016
			96132-198	PLATFROM BEAM	PB-91	30.923	22	09613210016
			96132-199	PLATFROM BEAM	PB-92	58.813	7	09613210016
			96132-200	PLATFROM BEAM	PB-92X	58.813	7	09613210016
96132-201	PLATFROM BEAM	PB-93	30.923	14	09613210016			
96132-202	PLATFROM BEAM	PB-94	61.249	3	09613210016			

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2	
			Rev No. 00	
			PAGE 12 of 35	

COPYRIGHT AND CONFIDENTIAL
 The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .
 It must not be used directly or indirectly in any way detrimental to the interest of the company.

96132-203	PLATFROM BEAM	PB-95	63.112	2	09613210016
96132-204	PLATFROM BEAM	PB-95X	63.112	2	09613210016
96132-205	PLATFROM BEAM	PB-96	63.186	2	09613210016
96132-206	PLATFROM BEAM	PB-96X	63.186	2	09613210016
96132-207	PLATFROM BEAM	PB-97	32.193	2	09613210016
96132-208	PLATFROM BEAM	PB-98	32.016	2	09613210016

B. LIST OF FASTENERS TOTAL WEIGHT – **3392 Kg**
(To be supplied As per TDC:6:388)

DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT (KG.)	QTY
96132-F01	H.T.BOLT Gr-10.9	M24-50 LG.	0.276	1424
96132-F02	H.T.BOLT Gr-10.9	M24-60 LG.	0.312	2032
96132-F04	H.T.BOLT Gr-10.9	M24-90 LG.	0.420	850
96132-F05	H.T.BOLT Gr-10.9	M24-95 LG.	0.437	64
96132-F06	H.T.BOLT Gr-10.9	M24-140 LG.	0.598	1896
96132-F12	NUT	M24	0.104	6266
96132-F13	WASHER	A22	0.031	6266

ANNEXURE V - OE9756132035 PF BEAMS - GROUP 3

A. FABRICATION ITEMS – TOTAL WEIGHT **97952 KG**

DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT(KG.)	QTY	DRAWING No.
96132-209	PLATFROM BEAM	PB-30	1128.767	1	09613210003
96132-210	PLATFROM BEAM	PB-31	1771.697	1	09613210003
96132-211	PLATFROM BEAM	PB-31A	1141.074	1	09613210003
96132-212	PLATFROM BEAM	PB-35	1105.773	1	09613210003
96132-213	PLATFROM BEAM	PB-32	1137.178	1	09613210003
96132-214	PLATFROM BEAM	PB-33	1108.768	1	09613210003
96132-215	PLATFROM BEAM	PB-33A	1087.522	1	09613210003
96132-216	PLATFROM BEAM	PB-34	1677.349	1	09613210003
96132-217	PLATFROM BEAM	PB-36	1436.420	2	09613210003
96132-218	PLATFROM BEAM	PB-37	1439.910	1	09613210003
96132-219	PLATFROM BEAM	PB-38	1459.669	1	09613210004
96132-220	PLATFROM BEAM	PB-40	1502.689	1	09613210004
96132-221	PLATFROM BEAM	PB-43	1504.104	1	09613210004
96132-222	PLATFROM BEAM	PB-45	1495.283	1	09613210004
96132-223	PLATFROM BEAM	PB-39	1506.541	1	09613210004
96132-224	PLATFROM BEAM	PB-42	1494.330	1	09613210004
96132-225	PLATFROM BEAM	PB-41	1054.269	1	09613210004

TD-106-2
Rev No. 5

Form No.

बी एच ई एल

BHEL

PRODUCT STANDARD
OIL FIELD EQUIPMENT
HYDERABAD

OE 5 6 1 3 2
Rev No. 00
PAGE 13 of 35

COPYRIGHT AND CONFIDENTIAL
The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .
It must not be used directly or indirectly in any way detrimental to the interest of the company.

Ref. Doc

96132-226	PLATFROM BEAM	PB-46	1127.976	1	09613210004
96132-227	PLATFROM BEAM	PB-47	1137.320	1	09613210004
96132-228	PLATFROM BEAM	PB-48	1085.952	1	09613210004
96132-229	PLATFROM BEAM	PB-49	970.780	1	09613210004
96132-230	PLATFROM BEAM	PB-281	8365.962	1	09613210019
96132-231	PLATFROM BEAM	PB-282	8405.000	1	09613210019
96132-232	PLATFROM BEAM	PB-278	1465.194	1	09613210019
96132-233	PLATFROM BEAM	PB-279	1050.542	3	09613210019
96132-234	PLATFROM BEAM	PB-279A	1157.279	1	09613210019
96132-235	PLATFROM BEAM	PB-280	455.814	1	09613210019
96132-236	PLATFROM BEAM	PB-283	472.651	1	09613210019
96132-237	PLATFROM BEAM	PB-284	1359.540	2	09613210019
96132-238	PLATFROM BEAM	PB-287	1375.933	1	09613210019
96132-239	PLATFROM BEAM	PB-285	1071.049	1	09613210019
96132-240	PLATFROM BEAM	PB-286	118.854	1	09613210019
96132-241	PLATFROM BEAM	PB-288	1001.333	3	09613210019
96132-242	PLATFROM BEAM	PB-28AA	1108.070	1	09613210019
96132-243	PLATFROM BEAM	PB-289	712.519	1	09613210019
96132-244	PLATFROM BEAM	PB-290	698.344	1	09613210019
96132-245	PLATFROM BEAM	PB-291	2366.328	1	09613210020
96132-246	PLATFROM BEAM	PB-293	1947.974	1	09613210020
96132-247	PLATFROM BEAM	PB-292	388.520	1	09613210020
96132-248	PLATFROM BEAM	PB-294	74.912	1	09613210020
96132-249	PLATFROM BEAM	PB-295	76.849	1	09613210020
96132-250	PLATFROM BEAM	PB-296	98.609	1	09613210020
96132-251	PLATFROM BEAM	PB-219B	17.898	8	09613210020
96132-252	PLATFROM BEAM	PB-221B	17.600	8	09613210020
96132-253	PLATFROM BEAM	PB-4A	31.071	1	09613210020
96132-254	PLATFROM BEAM	TB-1	1005.497	8	09613210020
96132-255	PLATFROM BEAM	TB-2	979.326	7	09613210020
96132-256	PLATFROM BEAM	TB-3	1007.273	1	09613210020
96132-257	PLATFROM BEAM	TB-4	1437.809	4	09613210020
96132-258	PLATFROM BEAM	TB-5	1429.345	4	09613210020
96132-259	PLATFROM BEAM	TB-6	1108.746	2	09613210020

B. LIST OF FASTENERS TOTAL WEIGHT – 2326 Kg
(To be supplied As per TDC:6:388)

DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT(KG.)	QTY
96132-F02	H.T.BOLT Gr-10.9	M24-60 LG.	0.312	76
96132-F03	H.T.BOLT Gr-10.9	M24-65 LG.	0.330	444
96132-F04	H.T.BOLT Gr-10.9	M24-90 LG.	0.420	164

96132-F07	H.T.BOLT Gr-10.9	M24-100 LG.	0.456	768
-----------	------------------	-------------	-------	-----

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2
			Rev No. 00
			PAGE 14 of 35

96132-F06	H.T.BOLT Gr-10.9	M24-140 LG.	0.598	1824
96132-F08	H.T.BOLT Gr-10.9	M24-150 LG.	0.638	264
96132-F12	WASHER	A22	0.031	3540
96132-F13	NUT	M24	0.104	3540

ANNEXURE VI - OE9756132043 PF BEAMS - GROUP 4

A. FABRICATION ITEMS – TOTAL WEIGHT 105614 KG

DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/U NIT(KG.)	QTY	DRAWING No.
96132-260	PLATFROM BEAM	PB-190	1328.800	2	09613210011
96132-261	PLATFROM BEAM	PB-193	1224.179	7	09613210011
96132-262	PLATFROM BEAM	PB-193A	1223.687	4	09613210011
96132-263	PLATFROM BEAM	PB-194	1234.731	2	09613210011
96132-264	PLATFROM BEAM	PB-194A	1227.697	2	09613210011
96132-265	PLATFROM BEAM	PB-195	1229.034	2	09613210011
96132-266	PLATFROM BEAM	PB-195A	1228.542	3	09613210011
96132-267	PLATFROM BEAM	PB-196	1209.738	11	09613210011
96132-268	PLATFROM BEAM	PB-197	1287.925	1	09613210011
96132-269	PLATFROM BEAM	PB-199	65.295	7	09613210011
96132-270	PLATFROM BEAM	PB-200	65.295	8	09613210011
96132-271	PLATFROM BEAM	PB-200X	65.295	8	09613210011
96132-272	PLATFROM BEAM	PB-201	63.237	28	09613210011
96132-273	PLATFROM BEAM	PB-202	65.174	14	09613210011
96132-274	PLATFROM BEAM	PB-203	65.174	15	09613210011
96132-275	PLATFROM BEAM	PB-203X	65.174	15	09613210011
96132-276	PLATFROM BEAM	PB-204	75.458	8	09613210011
96132-277	PLATFROM BEAM	PB-205	77.395	4	09613210011
96132-278	PLATFROM BEAM	PB-206	77.395	4	09613210011
96132-279	PLATFROM BEAM	PB-206X	77.395	4	09613210011
96132-280	PLATFROM BEAM	PB-207	63.358	6	09613210011
96132-281	PLATFROM BEAM	PB-208	65.295	3	09613210011
96132-282	PLATFROM BEAM	PB-209	65.295	3	09613210011
96132-283	PLATFROM BEAM	PB-209X	65.295	3	09613210011
96132-284	PLATFROM BEAM	PB-99	66.329	3	09613210017
96132-285	PLATFROM BEAM	PB-100	68.266	1	09613210017

COPYRIGHT AND CONFIDENTIAL
 The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .
 It must not be used directly or indirectly in any way detrimental to the interest of the company.

Ref. Doc

96132-286	PLATFROM BEAM	PB-100X	68.266	1	09613210017
96132-287	PLATFROM BEAM	PB-101	68.266	1	09613210017

TD-106-2 Rev No. 5		Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD				OE 5 6 1 3 2	
								Rev No. 00	
								PAGE 15 of 35	
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.									
			96132-288	PLATFROM BEAM	PB-101X	68.266	1	09613210017	
			96132-289	PLATFROM BEAM	PB-102	34.556	2	09613210017	
			96132-290	PLATFROM BEAM	PB-103	34.733	16	09613210017	
			96132-291	PLATFROM BEAM	PB-104	68.444	5	09613210017	
			96132-292	PLATFROM BEAM	PB-104X	68.444	5	09613210017	
			96132-293	PLATFROM BEAM	PB-105	34.733	10	09613210017	
			96132-294	PLATFROM BEAM	PB-105A	79.029	3	09613210017	
			96132-295	PLATFROM BEAM	PB-106	80.966	1	09613210017	
			96132-296	PLATFROM BEAM	PB-106X	80.966	1	09613210017	
			96132-297	PLATFROM BEAM	PB-107	80.966	1	09613210017	
			96132-298	PLATFROM BEAM	PB-107X	80.966	1	09613210017	
			96132-299	PLATFROM BEAM	PB-108	41.083	2	09613210017	
			96132-300	PLATFROM BEAM	PB-109	40.906	2	09613210017	
			96132-301	PLATFROM BEAM	PB-110	71.409	3	09613210017	
			96132-302	PLATFROM BEAM	PB-111	73.346	1	09613210017	
			96132-303	PLATFROM BEAM	PB-111X	73.346	1	09613210017	
			96132-304	PLATFROM BEAM	PB-112	73.346	1	09613210017	
			96132-305	PLATFROM BEAM	PB-112X	73.346	1	09613210017	
			96132-306	PLATFROM BEAM	PB-1A	37.096	2	09613210017	
			96132-307	PLATFROM BEAM	PB-113	37.273	16	09613210017	
			96132-308	PLATFROM BEAM	PB-114	71.587	18	09613210017	
			96132-309	PLATFROM BEAM	PB-115	73.524	6	09613210017	
			96132-310	PLATFROM BEAM	PB-115X	73.524	6	09613210017	
			96132-311	PLATFROM BEAM	PB-116	73.524	6	09613210017	
			96132-312	PLATFROM BEAM	PB-116X	73.524	6	09613210017	
			96132-313	PLATFROM BEAM	PB-117	37.273	16	09613210017	
			96132-314	PLATFROM BEAM	PB-118	71.409	3	09613210017	
			96132-315	PLATFROM BEAM	PB-119	73.346	1	09613210017	
			96132-316	PLATFROM BEAM	PB-119X	73.346	1	09613210017	
			96132-317	PLATFROM BEAM	PB-120	73.346	1	09613210017	
			96132-318	PLATFROM BEAM	PB-120X	73.346	1	09613210017	
96132-319	PLATFROM BEAM	PB-121	37.096	2	09613210017				
96132-320	PLATFROM BEAM	PB-122	79.029	3	09613210017				
96132-321	PLATFROM BEAM	PB-123	80.966	1	09613210017				
96132-322	PLATFROM BEAM	PB-123X	80.966	1	09613210017				
96132-323	PLATFROM BEAM	PB-124	80.966	1	09613210017				
96132-324	PLATFROM BEAM	PB-124X	80.966	1	09613210017				
96132-325	PLATFROM BEAM	PB-125	40.906	2	09613210017				
	96132-326	PLATFROM BEAM	PB-126	41.083	20	09613210017			
	96132-327	PLATFROM BEAM	PB-127	7.932	18	09613210017			

96132-412	PLATFROM BEAM	TBR-11AX	262.536	1	09613210021
96132-413	PLATFROM BEAM	TBR-1	227.718	8	09613210021

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2																																																																																																																																																																			
			Rev No. 00																																																																																																																																																																			
			PAGE 18 of 35																																																																																																																																																																			
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company. <table border="1"> <tr> <td>96132-414</td><td>PLATFROM BEAM</td><td>TBR-1X</td><td>227.718</td><td>8</td><td>09613210021</td></tr> <tr> <td>96132-415</td><td>PLATFROM BEAM</td><td>TBR-2</td><td>203.054</td><td>1</td><td>09613210021</td></tr> <tr> <td>96132-416</td><td>PLATFROM BEAM</td><td>TBR-2X</td><td>203.054</td><td>1</td><td>09613210021</td></tr> <tr> <td>96132-417</td><td>PLATFROM BEAM</td><td>TBR-3</td><td>193.108</td><td>1</td><td>09613210021</td></tr> <tr> <td>96132-418</td><td>PLATFROM BEAM</td><td>TBR-3X</td><td>193.108</td><td>1</td><td>09613210021</td></tr> <tr> <td>96132-419</td><td>PLATFROM BEAM</td><td>TBR-4</td><td>155.462</td><td>7</td><td>09613210021</td></tr> <tr> <td>96132-420</td><td>PLATFROM BEAM</td><td>TBR-4X</td><td>155.462</td><td>7</td><td>09613210021</td></tr> <tr> <td>96132-421</td><td>PLATFROM BEAM</td><td>TBR-5</td><td>148.305</td><td>7</td><td>09613210021</td></tr> <tr> <td>96132-422</td><td>PLATFROM BEAM</td><td>TBR-5X</td><td>148.305</td><td>7</td><td>09613210021</td></tr> <tr> <td>96132-423</td><td>PLATFROM BEAM</td><td>TBR-12</td><td>88.005</td><td>2</td><td>09613210021</td></tr> <tr> <td>96132-424</td><td>PLATFROM BEAM</td><td>TBR-12X</td><td>88.005</td><td>2</td><td>09613210021</td></tr> <tr> <td>96132-425</td><td>PLATFROM BEAM</td><td>TBR-13</td><td>77.489</td><td>2</td><td>09613210021</td></tr> <tr> <td>96132-426</td><td>PLATFROM BEAM</td><td>TBR-13X</td><td>77.489</td><td>2</td><td>09613210021</td></tr> <tr> <td>96132-427</td><td>PLATFROM BEAM</td><td>TBR-14</td><td>77.164</td><td>2</td><td>09613210021</td></tr> <tr> <td>96132-428</td><td>PLATFROM BEAM</td><td>TBR-14X</td><td>77.164</td><td>2</td><td>09613210021</td></tr> <tr> <td>96132-429</td><td>PLATFROM BEAM</td><td>TB-10</td><td>40.210</td><td>210</td><td>09613210021</td></tr> </table> B. LIST OF FASTENERS TOTAL WEIGHT – 2116 Kg (To be supplied As per TDC:6:388) <table border="1"> <thead> <tr> <th>DU NO</th><th>DESCRIPTION</th><th>ERECTION MARK</th><th>WEIGHT/ UNIT(KG.)</th><th>QTY</th></tr> </thead> <tbody> <tr> <td>96132-F01</td><td>H.T.BOLT Gr-10.9</td><td>M24-50 LG.</td><td>0.276</td><td>1622</td></tr> <tr> <td>96132-F02</td><td>H.T.BOLT Gr-10.9</td><td>M24-60 LG.</td><td>0.312</td><td>788</td></tr> <tr> <td>96132-F04</td><td>H.T.BOLT Gr-10.9</td><td>M24-90 LG.</td><td>0.420</td><td>1808</td></tr> <tr> <td>96132-F06</td><td>H.T.BOLT Gr-10.9</td><td>M24-140 LG.</td><td>0.598</td><td>128</td></tr> <tr> <td>96132-F12</td><td>NUT</td><td>M24</td><td>0.104</td><td>4346</td></tr> <tr> <td>96132-F13</td><td>WASHER</td><td>A22</td><td>0.031</td><td>4346</td></tr> </tbody> </table> <u>ANNEXURE VII - OE9756132051 COLUMNS OF FA PIPE RACK(UV)</u> A. FABRICATION ITEMS – TOTAL WEIGHT 104002 KG <table border="1"> <thead> <tr> <th>DU NO</th><th>DESCRIPTION</th><th>ERECTION MARK</th><th>WEIGHT/UNIT (KG.)</th><th>QTY</th><th>DRAWING No.</th></tr> </thead> <tbody> <tr> <td>96132-430</td><td>COLUMN</td><td>X/C-401</td><td>2630.58</td><td>1</td><td>09613210023</td></tr> <tr> <td>96132-431</td><td>COLUMN</td><td>Y/C-401</td><td>2825.61</td><td>1</td><td>09613210023</td></tr> <tr> <td>96132-432</td><td>COLUMN</td><td>X/C-404</td><td>2770.87</td><td>1</td><td>09613210023</td></tr> <tr> <td>96132-433</td><td>COLUMN</td><td>Y/C-404</td><td>2783.00</td><td>1</td><td>09613210023</td></tr> </tbody> </table>						96132-414	PLATFROM BEAM	TBR-1X	227.718	8	09613210021	96132-415	PLATFROM BEAM	TBR-2	203.054	1	09613210021	96132-416	PLATFROM BEAM	TBR-2X	203.054	1	09613210021	96132-417	PLATFROM BEAM	TBR-3	193.108	1	09613210021	96132-418	PLATFROM BEAM	TBR-3X	193.108	1	09613210021	96132-419	PLATFROM BEAM	TBR-4	155.462	7	09613210021	96132-420	PLATFROM BEAM	TBR-4X	155.462	7	09613210021	96132-421	PLATFROM BEAM	TBR-5	148.305	7	09613210021	96132-422	PLATFROM BEAM	TBR-5X	148.305	7	09613210021	96132-423	PLATFROM BEAM	TBR-12	88.005	2	09613210021	96132-424	PLATFROM BEAM	TBR-12X	88.005	2	09613210021	96132-425	PLATFROM BEAM	TBR-13	77.489	2	09613210021	96132-426	PLATFROM BEAM	TBR-13X	77.489	2	09613210021	96132-427	PLATFROM BEAM	TBR-14	77.164	2	09613210021	96132-428	PLATFROM BEAM	TBR-14X	77.164	2	09613210021	96132-429	PLATFROM BEAM	TB-10	40.210	210	09613210021	DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/ UNIT(KG.)	QTY	96132-F01	H.T.BOLT Gr-10.9	M24-50 LG.	0.276	1622	96132-F02	H.T.BOLT Gr-10.9	M24-60 LG.	0.312	788	96132-F04	H.T.BOLT Gr-10.9	M24-90 LG.	0.420	1808	96132-F06	H.T.BOLT Gr-10.9	M24-140 LG.	0.598	128	96132-F12	NUT	M24	0.104	4346	96132-F13	WASHER	A22	0.031	4346	DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT (KG.)	QTY	DRAWING No.	96132-430	COLUMN	X/C-401	2630.58	1	09613210023	96132-431	COLUMN	Y/C-401	2825.61	1	09613210023	96132-432	COLUMN	X/C-404	2770.87	1	09613210023	96132-433	COLUMN	Y/C-404	2783.00	1	09613210023
96132-414	PLATFROM BEAM	TBR-1X	227.718	8	09613210021																																																																																																																																																																	
96132-415	PLATFROM BEAM	TBR-2	203.054	1	09613210021																																																																																																																																																																	
96132-416	PLATFROM BEAM	TBR-2X	203.054	1	09613210021																																																																																																																																																																	
96132-417	PLATFROM BEAM	TBR-3	193.108	1	09613210021																																																																																																																																																																	
96132-418	PLATFROM BEAM	TBR-3X	193.108	1	09613210021																																																																																																																																																																	
96132-419	PLATFROM BEAM	TBR-4	155.462	7	09613210021																																																																																																																																																																	
96132-420	PLATFROM BEAM	TBR-4X	155.462	7	09613210021																																																																																																																																																																	
96132-421	PLATFROM BEAM	TBR-5	148.305	7	09613210021																																																																																																																																																																	
96132-422	PLATFROM BEAM	TBR-5X	148.305	7	09613210021																																																																																																																																																																	
96132-423	PLATFROM BEAM	TBR-12	88.005	2	09613210021																																																																																																																																																																	
96132-424	PLATFROM BEAM	TBR-12X	88.005	2	09613210021																																																																																																																																																																	
96132-425	PLATFROM BEAM	TBR-13	77.489	2	09613210021																																																																																																																																																																	
96132-426	PLATFROM BEAM	TBR-13X	77.489	2	09613210021																																																																																																																																																																	
96132-427	PLATFROM BEAM	TBR-14	77.164	2	09613210021																																																																																																																																																																	
96132-428	PLATFROM BEAM	TBR-14X	77.164	2	09613210021																																																																																																																																																																	
96132-429	PLATFROM BEAM	TB-10	40.210	210	09613210021																																																																																																																																																																	
DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/ UNIT(KG.)	QTY																																																																																																																																																																		
96132-F01	H.T.BOLT Gr-10.9	M24-50 LG.	0.276	1622																																																																																																																																																																		
96132-F02	H.T.BOLT Gr-10.9	M24-60 LG.	0.312	788																																																																																																																																																																		
96132-F04	H.T.BOLT Gr-10.9	M24-90 LG.	0.420	1808																																																																																																																																																																		
96132-F06	H.T.BOLT Gr-10.9	M24-140 LG.	0.598	128																																																																																																																																																																		
96132-F12	NUT	M24	0.104	4346																																																																																																																																																																		
96132-F13	WASHER	A22	0.031	4346																																																																																																																																																																		
DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT (KG.)	QTY	DRAWING No.																																																																																																																																																																	
96132-430	COLUMN	X/C-401	2630.58	1	09613210023																																																																																																																																																																	
96132-431	COLUMN	Y/C-401	2825.61	1	09613210023																																																																																																																																																																	
96132-432	COLUMN	X/C-404	2770.87	1	09613210023																																																																																																																																																																	
96132-433	COLUMN	Y/C-404	2783.00	1	09613210023																																																																																																																																																																	
Ref. Doc																																																																																																																																																																						

96132-477	COLUMN	V/C-5	563.14	1	09613210026
96132-478	COLUMN	V/C-2	552.50	1	09613210026

TD-106-2 Rev No. 5 Form No.		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD	OE 5 6 1 3 2
			Rev No. 00
			PAGE 20 of 35

96132-479	COLUMN	V/C-201	549.96	1	09613210026
96132-480	COLUMN	V/C-204	556.14	1	09613210026
96132-481	COLUMN	U/C-210	2355.93	1	09613210026
96132-482	COLUMN	V/C-22	2985.94	1	09613210026
96132-483	COLUMN	V/C-23	2990.73	1	09613210026
96132-484	COLUMN	V/C-210	4547.22	1	09613210026
96132-485	COLUMN	V/C-209	633.62	1	09613210026

ANNEXURE VIII - OE9756132060 PF GALLERY AND BRACINGS -PIPE RACK UV

A. FABRICATION ITEMS – TOTAL WEIGHT 137347 KG

DU NO	DESCRIPTION	ERECTION MARK	WEIGHT/UNIT (KG.)	QTY	DRAWING No.
96132-486	PLATFROM GALLERY	PG-1 / 1	190.09	1	09613210012
96132-487	PLATFROM GALLERY	PG-1X / 1	190.09	1	09613210012
96132-488	PLATFROM GALLERY	PG-1 / 2	198.26	1	09613210012
96132-489	PLATFROM GALLERY	PG-1X / 2	198.26	1	09613210012
96132-490	PLATFROM GALLERY	PG-1 / 3	195.36	1	09613210012
96132-491	PLATFROM GALLERY	PG-1X / 3	195.36	1	09613210012
96132-492	PLATFROM GALLERY	PG-1 / 4	185.20	4	09613210012
96132-493	PLATFROM GALLERY	PG-1X / 4	185.20	4	09613210012
96132-494	PLATFROM GALLERY	PG-1 / 5	186.19	3	09613210012
96132-495	PLATFROM GALLERY	PG-1X / 5	186.19	3	09613210012
96132-496	PLATFROM GALLERY	PG-1 / 6	179.93	1	09613210012
96132-497	PLATFROM GALLERY	PG-1X / 6	179.93	1	09613210012
96132-498	PLATFROM GALLERY	PG-1 / 7	32.39	2	09613210012
96132-499	PLATFROM GALLERY	PG-1X / 7	32.39	2	09613210012
96132-500	PLATFROM GALLERY	PG-1 / 8	31.12	8	09613210012
96132-501	PLATFROM GALLERY	PG-1X / 8	31.12	8	09613210012
96132-502	PLATFROM GALLERY	PG-1 / 9	44.25	2	09613210012
96132-503	PLATFROM GALLERY	PG-1X / 9	44.25	2	09613210012
96132-504	PLATFROM GALLERY	PG-2 / 1	193.41	1	09613210012
96132-505	PLATFROM GALLERY	PG-2X / 1	193.41	1	09613210012
96132-506	PLATFROM GALLERY	PG-2 / 2	199.16	1	09613210012
96132-507	PLATFROM GALLERY	PG-2X / 2	199.16	1	09613210012
96132-508	PLATFROM GALLERY	PG-2 / 3	191.68	1	09613210012
96132-509	PLATFROM GALLERY	PG-2X / 3	191.68	1	09613210012
96132-510	PLATFROM GALLERY	PG-2 / 4	186.19	1	09613210012

COPYRIGHT AND CONFIDENTIAL
 The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .
 It must not be used directly or indirectly in any way detrimental to the interest of the company.

Ref. Doc

TD-106-2 Rev No. 5	Form No.		96132-553	PLATFROM GALLERY	PG-5X / 1	185.20	4	09613210012
			96132-554	PLATFROM GALLERY	PG-5 / 2	186.19	3	09613210012
			96132-555	PLATFROM GALLERY	PG-5X / 2	186.19	3	09613210012
			PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD					OE 56132 Rev No. 00 PAGE 22 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	Ref. Doc		96132-556	PLATFROM GALLERY	PG-5 / 3	190.26	2	09613210012
		96132-557	PLATFROM GALLERY	PG-5X / 3	190.26	2	09613210012	
		96132-558	PLATFROM GALLERY	PG-5 / 4	197.84	1	09613210012	
		96132-559	PLATFROM GALLERY	PG-5X / 4	197.84	1	09613210012	
		96132-560	PLATFROM GALLERY	PG-5 / 5	185.20	1	09613210012	
		96132-561	PLATFROM GALLERY	PG-5X / 5	185.20	1	09613210012	
		96132-562	PLATFROM GALLERY	PG-5 / 6	50.54	2	09613210012	
		96132-563	PLATFROM GALLERY	PG-5X / 6	50.54	2	09613210012	
		96132-564	PLATFROM GALLERY	PG-5 / 7	27.31	10	09613210012	
		96132-565	PLATFROM GALLERY	PG-5X / 7	27.31	10	09613210012	
		96132-566	PLATFROM GALLERY	PG-5 / 8	37.47	10	09613210012	
		96132-567	PLATFROM GALLERY	PG-5X / 8	37.47	10	09613210012	
		96132-568	PLATFROM GALLERY	PG-17 / 1	142.14	3	09613210012	
		96132-569	PLATFROM GALLERY	PG-17 / 2	144.12	3	09613210012	
		96132-570	PLATFROM GALLERY	PG-17 / 3	146.38	1	09613210012	
		96132-571	PLATFROM GALLERY	PG-17 / 4	154.83	1	09613210012	
		96132-572	PLATFROM GALLERY	PG-17 / 5	20.15	1	09613210012	
		96132-573	PLATFROM GALLERY	PG-17 / 6	36.20	8	09613210012	
		96132-574	PLATFROM GALLERY	PG-18 / 1	142.14	3	09613210012	
		96132-575	PLATFROM GALLERY	PG-18 / 2	144.12	3	09613210012	
		96132-576	PLATFROM GALLERY	PG-18 / 3	142.14	1	09613210012	
		96132-577	PLATFROM GALLERY	PG-18 / 4	144.12	1	09613210012	
		96132-578	PLATFROM GALLERY	PG-18 / 6	36.20	8	09613210012	
		96132-579	PLATFROM GALLERY	PG-9/1	185.20	4	09613210013	
		96132-580	PLATFROM GALLERY	PG-9X/1	185.20	4	09613210013	
		96132-581	PLATFROM GALLERY	PG-9/2	186.19	3	09613210013	
		96132-582	PLATFROM GALLERY	PG-9X/2	186.19	3	09613210013	
		96132-583	PLATFROM GALLERY	PG-9/3	180.91	1	09613210013	
		96132-584	PLATFROM GALLERY	PG-9X/3	180.91	1	09613210013	
		96132-585	PLATFROM GALLERY	PG-9/4	33.35	8	09613210013	
		96132-586	PLATFROM GALLERY	PG-9X/4	33.35	8	09613210013	
		96132-587	PLATFROM GALLERY	PG-7/1	200.23	1	09613210013	
		96132-588	PLATFROM GALLERY	PG-7X/1	200.23	1	09613210013	
		96132-589	PLATFROM GALLERY	PG-7/2	195.04	1	09613210013	
		96132-590	PLATFROM GALLERY	PG-7X/2	195.04	1	09613210013	
		96132-591	PLATFROM GALLERY	PG-7 / 3	185.20	2	09613210013	
		96132-592	PLATFROM GALLERY	PG-7X/3	185.20	2	09613210013	
		96132-593	PLATFROM GALLERY	PG-7/4	186.19	1	09613210013	
		96132-594	PLATFROM GALLERY	PG-7X/4	186.19	1	09613210013	

TD-106-2 Rev No. 5	Form No.		96132-637	PLATFROM GALLERY	PG-10 / 8	34.93	6	09613210013
			96132-638	PLATFROM GALLERY	PG-10X / 8	34.93	6	09613210013
			96132-639	PLATFROM GALLERY	PG-10 / 8	48.34	2	09613210013
			PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD					OE 56132 Rev No. 00 PAGE 24 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	Ref. Doc	96132-640	PLATFROM GALLERY	PG-10X / 9	48.34	2	09613210013	
		96132-641	PLATFROM GALLERY	PG-8 / 1	185.20	6	09613210013	
		96132-642	PLATFROM GALLERY	PG-8X / 1	185.20	6	09613210013	
		96132-643	PLATFROM GALLERY	PG-8 / 2	186.19	4	09613210013	
		96132-644	PLATFROM GALLERY	PG-8X/ 2	186.19	4	09613210013	
		96132-645	PLATFROM GALLERY	PG-8 / 3	194.40	2	09613210013	
		96132-646	PLATFROM GALLERY	PG-8X / 3	194.40	2	09613210013	
		96132-647	PLATFROM GALLERY	PG-8 / 4	198.17	2	09613210013	
		96132-648	PLATFROM GALLERY	PG-8X / 4	198.17	2	09613210013	
		96132-649	PLATFROM GALLERY	PG-8 / 5	189.13	2	09613210013	
		96132-650	PLATFROM GALLERY	PG-8X / 5	189.13	2	09613210013	
		96132-651	PLATFROM GALLERY	PG-8 / 6	48.34	4	09613210013	
		96132-652	PLATFROM GALLERY	PG-8X / 6	48.34	4	09613210013	
		96132-653	PLATFROM GALLERY	PG-8 / 7	34.93	16	09613210013	
		96132-654	PLATFROM GALLERY	PG-8X / 7	34.93	16	09613210013	
		96132-655	PLATFROM GALLERY	PG-12 / 1	185.20	6	09613210013	
		96132-656	PLATFROM GALLERY	PG-12X / 1	185.20	6	09613210013	
		96132-657	PLATFROM GALLERY	PG-12 / 2	186.19	4	09613210013	
		96132-658	PLATFROM GALLERY	PG-12X / 2	186.19	4	09613210013	
		96132-659	PLATFROM GALLERY	PG-12 / 3	186.19	2	09613210013	
		96132-660	PLATFROM GALLERY	PG-12X / 3	186.19	2	09613210013	
		96132-661	PLATFROM GALLERY	PG-12 / 4	185.20	2	09613210013	
		96132-662	PLATFROM GALLERY	PG-12X / 4	185.20	2	09613210013	
		96132-663	PLATFROM GALLERY	PG-12 / 5	180.91	2	09613210013	
		96132-664	PLATFROM GALLERY	PG-12X / 5	180.91	2	09613210013	
		96132-665	PLATFROM GALLERY	PG-12 / 6	34.93	16	09613210013	
		96132-666	PLATFROM GALLERY	PG-12X / 6	34.93	16	09613210013	
		96132-667	PLATFROM GALLERY	PG-14 / 1	185.20	2	09613210013	
		96132-668	PLATFROM GALLERY	PG-14X / 1	185.20	2	09613210013	
		96132-669	PLATFROM GALLERY	PG-14 / 2	186.19	1	09613210013	
		96132-670	PLATFROM GALLERY	PG-14X / 2	186.19	1	09613210013	
		96132-671	PLATFROM GALLERY	PG-14 / 3	195.42	1	09613210013	
		96132-672	PLATFROM GALLERY	PG-14X / 3	195.42	1	09613210013	
		96132-673	PLATFROM GALLERY	PG-14 / 4	198.97	1	09613210013	
		96132-674	PLATFROM GALLERY	PG-14X / 4	198.97	1	09613210013	
		96132-675	PLATFROM GALLERY	PG-14 / 5	190.14	1	09613210013	
		96132-676	PLATFROM GALLERY	PG-14X / 5	190.14	1	09613210013	
		96132-677	PLATFROM GALLERY	PG-14 / 6	44.20	2	09613210013	
		96132-678	PLATFROM GALLERY	PG-14X / 6	44.20	2	09613210013	

96132-679	PLATFORM GALLERY	PG-14 / 7	31.12	6	09613210013
96132-680	PLATFORM GALLERY	PG-14X / 7	31.12	6	09613210013
96132-681	PLATFORM GALLERY	PG-11 / 1	185.20	3	09613210013

	PROJECT STANDARDS	Rev No. 00
	OIL FIELD EQUIPMENT	
	HYDERABAD	PAGE 25 of 35

96132-682	PLATFROM GALLERY	PG-11X / 1	185.20	3	09613210013
96132-683	PLATFROM GALLERY	PG-11 / 2	186.19	2	09613210013
96132-684	PLATFROM GALLERY	PG-11X / 2	186.19	2	09613210013
96132-685	PLATFROM GALLERY	PG-11 / 3	195.82	1	09613210013
96132-686	PLATFROM GALLERY	PG-11X / 3	195.82	1	09613210013
96132-687	PLATFROM GALLERY	PG-11 / 4	198.29	1	09613210013
96132-688	PLATFROM GALLERY	PG-11X / 4	198.29	1	09613210013
96132-689	PLATFROM GALLERY	PG-11 / 5	190.54	1	09613210013
96132-690	PLATFROM GALLERY	PG-11X / 5	190.54	1	09613210013
96132-691	PLATFROM GALLERY	PG-11 / 6	46.57	2	09613210013
96132-692	PLATFROM GALLERY	PG-11X / 6	46.57	2	09613210013
96132-693	PLATFROM GALLERY	PG-11 / 7	33.35	8	09613210013
96132-694	PLATFROM GALLERY	PG-11X / 7	33.35	8	09613210013
96132-695	PLATFROM GALLERY	PG-15 / 1	142.14	4	09613210013
96132-696	PLATFROM GALLERY	PG-15X / 1	142.14	4	09613210013
96132-697	PLATFROM GALLERY	PG-15 / 2	142.14	4	09613210013
96132-698	PLATFROM GALLERY	PG-15X / 2	142.14	4	09613210013
96132-699	PLATFROM GALLERY	PG-15 / 3	146.25	2	09613210013
96132-700	PLATFROM GALLERY	PG-15X / 3	146.25	2	09613210013
96132-701	PLATFROM GALLERY	PG-15 / 4	141.52	2	09613210013
96132-702	PLATFROM GALLERY	PG-15X / 4	141.52	2	09613210013
96132-703	PLATFROM GALLERY	PG-15 / 5	21.13	2	09613210013
96132-704	PLATFROM GALLERY	PG-15X / 5	21.13	2	09613210013
96132-705	PLATFROM GALLERY	PG-15 / 6	37.11	4	09613210013
96132-706	PLATFROM GALLERY	PG-15X / 6	37.11	4	09613210013
96132-707	PLATFROM GALLERY	PG-15 / 7	30.76	8	09613210013
96132-708	PLATFROM GALLERY	PG-15X / 7	30.76	8	09613210013
96132-709	PLATFROM GALLERY	PG-16 / 1	142.14	4	09613210013
96132-710	PLATFROM GALLERY	PG-16X / 1	142.14	4	09613210013
96132-711	PLATFROM GALLERY	PG-16 / 2	142.14	4	09613210013
96132-712	PLATFROM GALLERY	PG-16X / 2	142.14	4	09613210013
96132-713	PLATFROM GALLERY	PG-16 / 3	146.25	2	09613210013
96132-714	PLATFROM GALLERY	PG-16X / 3	146.25	2	09613210013
96132-715	PLATFROM GALLERY	PG-16 / 4	141.52	2	09613210013
96132-716	PLATFROM GALLERY	PG-16X / 4	141.52	2	09613210013
96132-717	PLATFROM GALLERY	PG-16 / 5	21.13	2	09613210013
96132-718	PLATFROM GALLERY	PG-16X / 5	21.13	2	09613210013
96132-719	PLATFROM GALLERY	PG-16 / 6	42.22	4	09613210013
96132-720	PLATFROM GALLERY	PG-16X / 6	42.22	4	09613210013

TD-106-2 Rev No. 5 Form No.		96132-681	PLATFROM GALLERY	PG-11 / 1	185.20	3	09613210013						
		PRODUCT STANDARD					Rev No. 00						
		OIL FIELD EQUIPMENT											
HYDERABAD						PAGE 25 of 35							
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.													
								96132-682	PLATFROM GALLERY	PG-11X / 1	185.20	3	09613210013
								96132-683	PLATFROM GALLERY	PG-11 / 2	186.19	2	09613210013
								96132-684	PLATFROM GALLERY	PG-11X / 2	186.19	2	09613210013
								96132-685	PLATFROM GALLERY	PG-11 / 3	195.82	1	09613210013
								96132-686	PLATFROM GALLERY	PG-11X / 3	195.82	1	09613210013
								96132-687	PLATFROM GALLERY	PG-11 / 4	198.29	1	09613210013
								96132-688	PLATFROM GALLERY	PG-11X / 4	198.29	1	09613210013
								96132-689	PLATFROM GALLERY	PG-11 / 5	190.54	1	09613210013
								96132-690	PLATFROM GALLERY	PG-11X / 5	190.54	1	09613210013
								96132-691	PLATFROM GALLERY	PG-11 / 6	46.57	2	09613210013
								96132-692	PLATFROM GALLERY	PG-11X / 6	46.57	2	09613210013
								96132-693	PLATFROM GALLERY	PG-11 / 7	33.35	8	09613210013
								96132-694	PLATFROM GALLERY	PG-11X / 7	33.35	8	09613210013
								96132-695	PLATFROM GALLERY	PG-15 / 1	142.14	4	09613210013
								96132-696	PLATFROM GALLERY	PG-15X / 1	142.14	4	09613210013
								96132-697	PLATFROM GALLERY	PG-15 / 2	142.14	4	09613210013
								96132-698	PLATFROM GALLERY	PG-15X / 2	142.14	4	09613210013
								96132-699	PLATFROM GALLERY	PG-15 / 3	146.25	2	09613210013
								96132-700	PLATFROM GALLERY	PG-15X / 3	146.25	2	09613210013
								96132-701	PLATFROM GALLERY	PG-15 / 4	141.52	2	09613210013
								96132-702	PLATFROM GALLERY	PG-15X / 4	141.52	2	09613210013
								96132-703	PLATFROM GALLERY	PG-15 / 5	21.13	2	09613210013
								96132-704	PLATFROM GALLERY	PG-15X / 5	21.13	2	09613210013
								96132-705	PLATFROM GALLERY	PG-15 / 6	37.11	4	09613210013
								96132-706	PLATFROM GALLERY	PG-15X / 6	37.11	4	09613210013
								96132-707	PLATFROM GALLERY	PG-15 / 7	30.76	8	09613210013
								96132-708	PLATFROM GALLERY	PG-15X / 7	30.76	8	09613210013
96132-709	PLATFROM GALLERY	PG-16 / 1	142.14	4	09613210013								
96132-710	PLATFROM GALLERY	PG-16X / 1	142.14	4	09613210013								
96132-711	PLATFROM GALLERY	PG-16 / 2	142.14	4	09613210013								
96132-712	PLATFROM GALLERY	PG-16X / 2	142.14	4	09613210013								
96132-713	PLATFROM GALLERY	PG-16 / 3	146.25	2	09613210013								
96132-714	PLATFROM GALLERY	PG-16X / 3	146.25	2	09613210013								
96132-715	PLATFROM GALLERY	PG-16 / 4	141.52	2	09613210013								
96132-716	PLATFROM GALLERY	PG-16X / 4	141.52	2	09613210013								
96132-717	PLATFROM GALLERY	PG-16 / 5	21.13	2	09613210013								
96132-718	PLATFROM GALLERY	PG-16X / 5	21.13	2	09613210013								

Copyright and Confidential

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.

Ref. Doc

TD-106-2 Rev No. 5	Form No.		96132-805	PLATFROM GALLERY	PG-26/1	145.29	1	09613210015
			96132-806	PLATFROM GALLERY	PG-26/2	156.82	1	09613210015
			96132-807	PLATFROM GALLERY	PG-26/3	150.24	1	09613210015
			PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD					OE 56132 Rev No. 00 PAGE 28 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	Ref. Doc	96132-808	PLATFROM GALLERY	PG-26/4	139.25	1	09613210015	
		96132-809	PLATFROM GALLERY	PG-26/5	66.07	1	09613210015	
		96132-810	PLATFROM GALLERY	PG-26/6	26.94	1	09613210015	
		96132-811	PLATFROM GALLERY	PG-26/7	25.92	1	09613210015	
		96132-812	PLATFROM GALLERY	PG-26/8	42.22	2	09613210015	
		96132-813	PLATFROM BRACING	PBR-1	105.81	1	09613210027	
		96132-814	PLATFROM BRACING	PBR-2	106.77	1	09613210027	
		96132-815	PLATFROM BRACING	PBR-3	97.87	1	09613210027	
		96132-816	PLATFROM BRACING	PBR-4	98.16	1	09613210027	
		96132-817	PLATFROM BRACING	PBR-11A	76.93	1	09613210027	
		96132-818	PLATFROM BRACING	PBR-12A	79.19	1	09613210027	
		96132-819	PLATFROM BRACING	PBR-5	90.29	1	09613210027	
		96132-820	PLATFROM BRACING	PBR-6	86.83	1	09613210027	
		96132-821	PLATFROM BRACING	PBR-7	76.93	1	09613210027	
		96132-822	PLATFROM BRACING	PBR-8	79.60	1	09613210027	
		96132-823	PLATFROM BRACING	PBR-5A	91.41	1	09613210027	
		96132-824	PLATFROM BRACING	PBR-6A	86.83	1	09613210027	
		96132-825	PLATFROM BRACING	PBR-7A	76.81	1	09613210027	
		96132-826	PLATFROM BRACING	PBR-8A	80.08	1	09613210027	
		96132-827	PLATFROM BRACING	PBR-5B	85.91	1	09613210027	
		96132-828	PLATFROM BRACING	PBR-6B	85.89	1	09613210027	
		96132-829	PLATFROM BRACING	PBR-7B	76.86	1	09613210027	
		96132-830	PLATFROM BRACING	PBR-8B	75.46	1	09613210027	
		96132-831	PLATFROM BRACING	PBR-9	84.73	1	09613210027	
		96132-832	PLATFROM BRACING	PBR-10	84.20	1	09613210027	
		96132-833	PLATFROM BRACING	PBR-11	73.45	1	09613210027	
		96132-834	PLATFROM BRACING	PBR-12	72.65	1	09613210027	
		96132-835	PLATFROM BRACING	PBR-9A	90.83	1	09613210027	
		96132-836	PLATFROM BRACING	PBR-10A	87.37	1	09613210027	
		96132-837	PLATFROM BRACING	PBR-9B	90.22	1	09613210028	
		96132-838	PLATFROM BRACING	PBR-10B	86.74	1	09613210028	
		96132-839	PLATFROM BRACING	PBR-11B	76.86	1	09613210028	
		96132-840	PLATFROM BRACING	PBR-12B	79.52	1	09613210028	
		96132-841	PLATFROM BRACING	PBR-1A	87.63	1	09613210028	
		96132-842	PLATFROM BRACING	PBR-2A	83.23	1	09613210028	
		96132-843	PLATFROM BRACING	PBR-3A	73.11	1	09613210028	
		96132-844	PLATFROM BRACING	PBR-4A	76.57	1	09613210028	
		96132-845	PLATFROM BRACING	PBR-1B	87.73	1	09613210028	
		96132-846	PLATFROM BRACING	PBR-2B	83.28	1	09613210028	

TD-106-2 Rev No. 5	Form No.		96132-847	PLATFROM BRACING	PBR-3B	73.21	1	09613210028
			96132-848	PLATFROM BRACING	PBR-4B	76.72	1	09613210028
			96132-849	PLATFROM BRACING	PBR-1C	83.74	1	09613210028
			PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD					OE 56132 Rev No. 00 PAGE 29 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.	Ref. Doc		96132-850	PLATFROM BRACING	PBR-2C	83.15	1	09613210028
			96132-851	PLATFROM BRACING	PBR-3C	73.11	1	09613210028
			96132-852	PLATFROM BRACING	PBR-4C	73.67	1	09613210028
			96132-853	PLATFROM BRACING	PBR-13	91.41	2	09613210028
			96132-854	PLATFROM BRACING	PBR-13X	91.41	3	09613210028
			96132-855	PLATFROM BRACING	PBR-14	93.00	2	09613210028
			96132-856	PLATFROM BRACING	PBR-14X	93.00	3	09613210028
			96132-857	PLATFROM BRACING	PBR-15	82.89	2	09613210028
			96132-858	PLATFROM BRACING	PBR-15X	82.89	3	09613210028
			96132-859	PLATFROM BRACING	PBR-16	80.47	2	09613210028
			96132-860	PLATFROM BRACING	PBR-16X	80.47	3	09613210028
			96132-861	PLATFROM BRACING	PBR-13A	95.38	3	09613210028
			96132-862	PLATFROM BRACING	PBR-13AX	95.38	3	09613210028
			96132-863	PLATFROM BRACING	PBR-14A	93.10	3	09613210028
			96132-864	PLATFROM BRACING	PBR-14AX	93.10	3	09613210028
			96132-865	PLATFROM BRACING	PBR-15A	82.40	3	09613210028
			96132-866	PLATFROM BRACING	PBR-15AX	82.40	3	09613210028
			96132-867	PLATFROM BRACING	PBR-16A	84.17	3	09613210028
			96132-868	PLATFROM BRACING	PBR-16AX	84.17	3	09613210028
			96132-869	PLATFROM BRACING	PBR-17	89.62	2	09613210028
			96132-870	PLATFROM BRACING	PBR-17X	89.62	2	09613210028
			96132-871	PLATFROM BRACING	PBR-18	89.79	2	09613210028
			96132-872	PLATFROM BRACING	PBR-18X	89.79	2	09613210028
			96132-873	PLATFROM BRACING	PBR-19	81.02	2	09613210029
			96132-874	PLATFROM BRACING	PBR-19X	81.02	2	09613210029
			96132-875	PLATFROM BRACING	PBR-20	78.73	2	09613210029
			96132-876	PLATFROM BRACING	PBR-20X	78.73	2	09613210029
			96132-877	PLATFROM BRACING	PBR-17A	92.59	2	09613210029
			96132-878	PLATFROM BRACING	PBR-17AX	92.59	2	09613210029
			96132-879	PLATFROM BRACING	PBR-18A	90.08	2	09613210029
			96132-880	PLATFROM BRACING	PBR-18AX	90.08	2	09613210029
			96132-881	PLATFROM BRACING	PBR-19A	80.71	2	09613210029
			96132-882	PLATFROM BRACING	PBR-19AX	80.71	2	09613210029
			96132-883	PLATFROM BRACING	PBR-20A	81.99	2	09613210029
			96132-884	PLATFROM BRACING	PBR-20AX	81.99	2	09613210029
			96132-885	PLATFROM BRACING	PBR-8A	196.29	1	09613210029
			96132-886	PLATFROM BRACING	PBR-8B	187.44	1	09613210029
96132-887	PLATFROM BRACING	PBR-21	95.28	1	09613210029			
96132-888	PLATFROM BRACING	PBR-22	98.52	1	09613210029			

TD-106-2 Rev No. 5 Form No.		96132-889	PLATFROM BRACING	PBR-23	86.62	1	09613210029
		96132-890	PLATFROM BRACING	PBR-24	84.41	1	09613210029
		96132-891	PLATFROM BRACING	PBR-5A	113.14	1	09613210029
		PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD					OE 56132 Rev No. 00 PAGE 30 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.		96132-892	PLATFROM BRACING	PBR-5B	120.30	1	09613210029
		96132-893	PLATFROM BRACING	PBR-5C	108.20	1	09613210029
		96132-894	PLATFROM BRACING	PBR-5D	107.96	1	09613210029
		96132-895	PLATFROM BRACING	PBR-6A	84.36	1	09613210029
		96132-896	PLATFROM BRACING	PBR-6B	83.15	1	09613210029
		96132-897	PLATFROM BRACING	PBR-6C	72.87	1	09613210029
		96132-898	PLATFROM BRACING	PBR-6D	73.16	1	09613210029
		96132-899	PLATFROM BRACING	PBR-7A	84.36	1	09613210029
		96132-900	PLATFROM BRACING	PBR-7B	156.29	1	09613210029
		96132-901	PLATFROM BRACING	PBR-7C	155.86	1	09613210029
		96132-902	PLATFROM BRACING	PBR-7D	158.77	1	09613210029
		96132-903	PLATFROM BRACING	PBR-8C	165.41	1	09613210030
		96132-904	PLATFROM BRACING	PBR-8D	171.60	1	09613210030
		96132-905	PLATFROM BRACING	PBR-9A	196.07	1	09613210030
		96132-906	PLATFROM BRACING	PBR-9B	187.28	1	09613210030
		96132-907	PLATFROM BRACING	PBR-9C	164.76	1	09613210030
		96132-908	PLATFROM BRACING	PBR-9D	171.43	1	09613210030
		96132-909	PLATFROM BRACING	PBR-32	198.40	1	09613210030
		96132-910	PLATFROM BRACING	PBR-31	189.89	1	09613210030
		96132-911	PLATFROM BRACING	PBR-30	169.29	1	09613210030
		96132-912	PLATFROM BRACING	PBR-29	174.82	1	09613210030
		96132-913	PLATFROM BRACING	PBR-25	165.12	1	09613210030
		96132-914	PLATFROM BRACING	PBR-26	184.37	2	09613210030
		96132-915	PLATFROM BRACING	PBR-26X	184.37	2	09613210030
		96132-916	PLATFROM BRACING	PBR-27	209.34	1	09613210030
		96132-917	PLATFROM BRACING	PBR-27X	209.34	1	09613210030
		96132-918	PLATFROM BRACING	PBR-28	366.77	2	09613210030
		96132-919	PLATFROM BRACING	PBR-28X	366.77	1	09613210030
		96132-920	PLATFROM BRACING	PBR-25A	189.14	1	09613210030
		96132-921	PLATFROM BRACING	PBR-25AX	189.14	1	09613210030
		96132-922	PLATFROM BRACING	PBR-27A	95.86	1	09613210030
		96132-923	PLATFROM BRACING	PBR-27AX	95.86	1	09613210030
		96132-924	PLATFROM BRACING	PBR-28A	209.89	1	09613210030
		96132-925	PLATFROM BRACING	PBR-33	77.42	1	09613210030
		96132-926	PLATFROM BRACING	PBR-34	76.79	1	09613210030
		96132-927	PLATFROM BRACING	PBR-35	388.05	1	09613210030
		96132-928	PLATFROM BRACING	PBR-36	166.86	1	09613210030
Ref. Doc		96132-929	PLATFROM BRACING	PBR-37	172.97	1	09613210030
		96132-930	PLATFROM BRACING	PBR-38	89.88	1	09613210030

TD-106-2 Rev No. 5	Form No.		96132-931	PLATFROM BRACING	PBR-39	288.43	1	09613210030						
			96132-932	PLATFROM BRACING	PBR-40	292.01	1	09613210030						
			96132-933	PLATFROM BRACING	PBR-10A	191.02	1	09613210031						
			PRODUCT STANDARD					OE 56132						
			OIL FIELD EQUIPMENT				Rev No. 00							
			HYDERABAD				PAGE 31 of 35							
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.									96132-934	PLATFROM BRACING	PBR-10B	378.71	1	09613210031
									96132-935	PLATFROM BRACING	PBR-10C	327.49	1	09613210031
									96132-936	PLATFROM BRACING	PBR-10D	91.21	3	09613210031
									96132-937	PLATFROM BRACING	PBR-10DX	91.21	2	09613210031
									96132-938	PLATFROM BRACING	PBR-10E	90.34	3	09613210031
									96132-939	PLATFROM BRACING	PBR-10EX	90.34	2	09613210031
									96132-940	PLATFROM BRACING	PBR-11A	102.93	2	09613210031
									96132-941	PLATFROM BRACING	PBR-11AX	102.93	1	09613210031
									96132-942	PLATFROM BRACING	PBR-11B	101.28	2	09613210031
									96132-943	PLATFROM BRACING	PBR-11BX	101.28	2	09613210031
									96132-944	PLATFROM BRACING	PBR-12A	100.68	1	09613210031
									96132-945	PLATFROM BRACING	PBR-13A	88.74	1	09613210031
									96132-946	PLATFROM BRACING	PBR-41	84.44	1	09613210031
									96132-947	PLATFROM BRACING	PBR-42	85.28	3	09613210031
									96132-948	PLATFROM BRACING	PBR-42X	85.28	2	09613210031
									96132-949	PLATFROM BRACING	PBR-43	95.64	1	09613210031
									96132-950	PLATFROM BRACING	PBR-43X	95.64	1	09613210031
									96132-951	PLATFROM BRACING	PBR-44	95.40	1	09613210031
									96132-952	PLATFROM BRACING	PBR-41A	86.78	2	09613210031
									96132-953	PLATFROM BRACING	PBR-41AX	86.78	1	09613210031
									96132-954	PLATFROM BRACING	PBR-44A	97.55	1	09613210031
									96132-955	PLATFROM BRACING	PBR-25B	184.93	1	09613210031
									96132-956	PLATFROM BRACING	PBR-14A	209.34	2	09613210031
									96132-957	PLATFROM BRACING	PBR-14AX	209.34	1	09613210031
									96132-958	PLATFROM BRACING	PBR-15A	214.20	2	09613210031
									96132-959	PLATFROM BRACING	PBR-15AX	214.20	1	09613210031
									96132-960	PLATFROM BRACING	PBR-45	199.73	1	09613210031
									96132-961	PLATFROM BRACING	PBR-46	195.85	1	09613210031
									96132-962	PLATFROM BRACING	PBR-47	221.51	1	09613210031
									96132-963	PLATFROM BRACING	PBR-48	225.95	1	09613210031
									96132-964	PLATFROM BRACING	PBR-49	184.48	1	09613210032
									96132-965	PLATFROM BRACING	PBR-50	178.31	1	09613210032
96132-966	PLATFROM BRACING	PBR-51	198.90	1	09613210032									
96132-967	PLATFROM BRACING	PBR-52	207.37	1	09613210032									
96132-968	PLATFROM BRACING	PBR-49A	177.00	1	09613210032									
96132-969	PLATFROM BRACING	PBR-50A	179.19	1	09613210032									
96132-970	PLATFROM BRACING	PBR-51A	198.68	1	09613210032									
96132-971	PLATFROM BRACING	PBR-52A	202.51	1	09613210032									
96132-972	PLATFROM BRACING	PBR-29	166.03	1	09613210032									

TD-106-2 Rev No. 5	Form No.		96132-1015	PLATFROM BRACING	PBR-79X	87.32	1	09613210033
			96132-1016	PLATFROM BRACING	PBR-77D	59.75	1	09613210033
			96132-1017	PLATFROM BRACING	PBR-77A	64.13	1	09613210033
			PRODUCT STANDARD OIL FIELD EQUIPMENT HYDERABAD					OE 56132 Rev No. 00 PAGE 33 of 35
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company.			96132-1018	PLATFROM BRACING	PBR-77AX	64.13	1	09613210033
			96132-1019	PLATFROM BRACING	PBR-89	54.90	1	09613210034
			96132-1020	PLATFROM BRACING	PBR-90	105.59	1	09613210034
			96132-1021	PLATFROM BRACING	PBR-91	41.52	1	09613210034
			96132-1022	PLATFROM BRACING	PBR-92	37.34	1	09613210034
			96132-1023	PLATFROM BRACING	PBR-93	55.59	1	09613210034
			96132-1024	PLATFROM BRACING	PBR-93X	55.59	1	09613210034
			96132-1025	PLATFROM BRACING	PBR-94	55.87	1	09613210034
			96132-1026	PLATFROM BRACING	PBR-95	61.45	1	09613210034
			96132-1027	PLATFROM BRACING	PBR-96	62.29	1	09613210034
			96132-1028	PLATFROM BRACING	PBR-97	74.25	1	09613210034
			96132-1029	PLATFROM BRACING	PBR-98	44.67	1	09613210034
			96132-1030	PLATFROM BRACING	PBR-99	44.97	1	09613210034
			96132-1031	PLATFROM BRACING	PBR-100	75.53	1	09613210034
			96132-1032	PLATFROM BRACING	PBR-101	34.00	1	09613210034
			96132-1033	PLATFROM BRACING	PBR-102	62.72	1	09613210034
			96132-1034	PLATFROM BRACING	PBR-103	40.63	1	09613210034
			96132-1035	PLATFROM BRACING	PBR-104	58.49	1	09613210034
			96132-1036	PLATFROM BRACING	PBR-105	39.51	1	09613210034
			96132-1037	PLATFROM BRACING	PBR-106	54.31	1	09613210034
			96132-1038	PLATFROM BRACING	PBR-107	61.86	1	09613210034
			96132-1039	PLATFROM BRACING	PBR-108	60.13	1	09613210034
			96132-1040	PLATFROM BRACING	PBR-109	41.07	1	09613210034
			96132-1041	PLATFROM BRACING	PBR-109X	41.07	1	09613210034
			96132-1042	PLATFROM BRACING	PBR-110	57.08	1	09613210034
			96132-1043	PLATFROM BRACING	PBR-111	60.13	1	09613210034
			96132-1044	PLATFROM BRACING	PBR-112	57.05	1	09613210034
			96132-1045	PLATFROM BRACING	PBR-113	61.13	1	09613210034
			96132-1046	PLATFROM BRACING	PBR-114	59.81	1	09613210034
			96132-1047	PLATFROM BRACING	PBR-116	82.65	1	09613210034
			96132-1048	PLATFROM BRACING	PBR-117	80.32	1	09613210034
			96132-1049	PLATFROM BRACING	PBR-118	66.39	1	09613210034
			96132-1050	PLATFROM BRACING	PBR-120	66.39	1	09613210034
			96132-1051	PLATFROM BRACING	PBR-119	85.40	1	09613210034
			96132-1052	PLATFROM BRACING	PBR-121	86.93	1	09613210034
			96132-1053	PLATFROM BRACING	PBR-80	67.33	1	09613210035
			96132-1054	PLATFROM BRACING	PBR-80X	70.67	1	09613210035
			96132-1055	PLATFROM BRACING	PBR-80A	66.36	2	09613210035
Ref. Doc								

COPYRIGHT AND CONFIDENTIAL

बी.ए.ई.एम.
Bharat Aardram

96132-F10	H.T.BOLT Gr-10.9	M20-50 LG.	0.186	2954
96132-F11	H.T.BOLT Gr-10.9	M20-55 LG.	0.198	488
96132-F14	H.T.BOLT Gr-10.9	M20-60 LG.	0.211	3984
96132-F01	H.T.BOLT Gr-10.9	M24-50 LG.	0.276	8152
96132-F15	NUT M16	M16	0.032	210
96132-F16	NUT M20	M20	0.061	7426
96132-F12	NUT M24	M24	0.104	8152
96132-F17	WASHER A18	A18	0.008	210
96132-F18	WASHER A22	A22	0.016	7426
96132-F13	WASHER A26	A26	0.031	8152

COPYRIGHT AND CONFIDENTIAL

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company.

Ref. Doc



**PRODUCT STANDARD
OIL FIELD EQUIPMENT
HYDERABAD**

OE 5 6 1 3 2

Rev No. 00

Page 35 of 35

RECORD OF REVISIONS

COPYRIGHT AND CONFIDENTIAL

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.

Ref. Doc.

Rev.
No.

Date

Revision Details

Revised
By

Approved
By

00

23.09.2019

First issue

KARTHIK

RAJEEV
KUMAR