



BHARAT HEAVY ELECTRICALS LIMITED  
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-22-Sep-18

CORRIGENDUM- 09

<b>PROJECT</b>	:	5 x 800 MW Yadadri TPP
<b>PACKAGE</b>	:	<b>COMPRESSED AIR SYSTEM</b>
<b>ENQUIRY NO</b>	:	E-5927/2018 Dated 07.05.2018
<b>SUBJECT</b>	:	<b>TECHNICAL AMENDMENT</b>

Type of Corrigendum			
Technical Corrigendum -	<input checked="" type="checkbox"/>	Commercial Corrigendum -	<input type="checkbox"/>

In reference to the above mentioned tender enquiry for **COMPRESSED AIR SYSTEM** package

Please note the following.

1. Refer attached Technical Amendment # 2 to Technical Specification-PE-TS-417-555-A001.

Kindly submit your offer with in due date & time i.e. 04.10.2018 @ 02:00 PM.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,

For and on behalf of BHEL

Upendra Chaudhary  
Manager/BOP



**AMENDMENT ON TECHNICAL SPECIFICATION FOR COMPRESSED AIR SYTEM  
PACKAGE  
5 X 800 MW YADADRI TPS**

SPECIFICATION NO.: PE-TS-417-555-A001

AMENDMENT NO # 2

REV. NO. 00

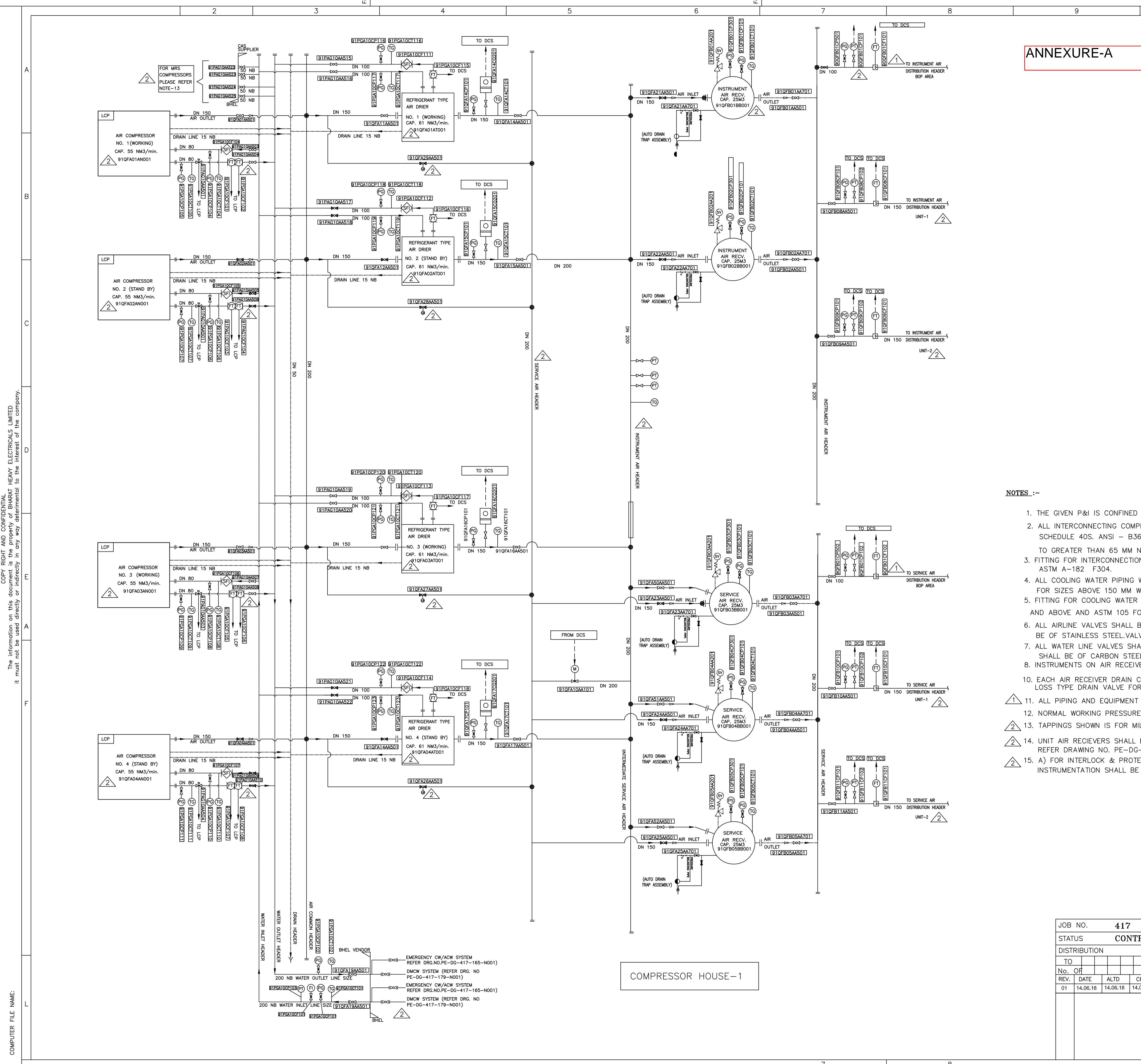
DATE: 21/09/2018

The following modifications with respect to Technical Specification of compressed air system BHEL's Technical specification no **PE-TS-417-555-A001** and subsequent amendment #1 for the same shall apply.

Bidder to note that existing clauses/details as appearing in the specification stands deleted and clauses/details as mentioned in "Modified to or Read as" column shall be applicable and complied by the bidder.

**MODIFIED CLAUSES/PAGE NUMBERS.**

Sl no.	Section	Description	Clause	Page no	Existing clause/details	Modified to or Read as
1.	ANNEXURE-A OF AMENDMENT 1	P& ID of compressed air system within compressor house	--	4,5 OF 23	drawings 1. P& ID of compressed air system within compressor house (PE-DG-417-555-A018, R-01)	1. P& ID of compressed air system within compressor house (PE-DG-417-555-A018, R-02). Revised drgs. are attached as annexure – A
2.	ANNEXURE-B OF AMENDMENT 1	DESIGN MEMORANDUM OF CAS	3.2	13 OF 23	The corrosion allowance shall be 2.0mm.	The corrosion allowance shall be 3.0mm.



ANNEXURE-A

LEGEND	
SYMBOL	DESCRIPTION
	NON RETURN VALVE
	BALL VALVE (OPEN)
	BALL VALVE (CLOSED)
	GLOBE VALVE (OPEN)
	GLOBE VALVE (CLOSED)
	RELIEF/SAFETY VALVE (OPEN)
LCP	LOCAL CONTROL PANEL
	SOLENOID VALVE
	'Y' TYPE FUNNEL
	DEW POINT METER
	WATER LINE
	DRAIN LINE
	AIR LINE
	FLOW SWITCH
TG	TEMP. GAUGE
PG	PRESSURE GAUGE
PT	PRESSURE TRANSMITTER
FI	FLOW INDICATOR
	VORTEX TYPE FLOW TRANSMITTER
	SIGHT FLOW INDICATOR
	FLOW TRANSMITTER
	MOTORISED VALVE
PS	PRESSURE SWITCH
	MANUAL VALVE WITH LIMIT SWITCH

NOTES :-

- THE GIVEN P&I IS CONFINED TO INSTRUMENTS AND PIPING FOR COMPRESSOR HOUSE AREA ONLY.
- ALL INTERCONNECTING COMPRESSED AIR PIPING SHALL BE OF STAINLESS STEEL AS PER ASTM-A312 GR. 304 SCHEDULE 40S. ANSI - B36.19 UPTO 50 MM NB AND AS PER SCHEDULE 10S ANSI B 36.19 FOR SIZES EQUAL TO GREATER THAN 65 MM NB.
- FITTING FOR INTERCONNECTING COMPRESSED AIR PIPELINE SHALL BE STAINLESS STEEL AS PER ASTM A-182 F304.
- ALL COOLING WATER PIPING WILL BE CONFORMING TO IS:1239 (HEAVY GRADE) UPTO 150 MM NB AND IS-3589 FOR SIZES ABOVE 150 MM WITH MINIMUM PIPE THICKNESS OF 6 MM.
- FITTING FOR COOLING WATER PIPING SHALL BE AS PER ASTM A234 GR WPB FOR SIZING INCLUDING 65 MM NB AND ABOVE AND ASTM 105 FOR SIZES UPTO 50 NB
- ALL AIRLINE VALVES SHALL BE BALL VALVE TYPE FOR COMPRESSED AIR APPLICATION VALVE MATERIAL SHALL BE OF STAINLESS STEEL. VALVES SHALL BE AS PER BS-5351.
- ALL WATER LINE VALVES SHALL BE BALL VALVE TYPE FOR COOLING WATER LINE APPLICATION VALVE MATERIAL SHALL BE OF CARBON STEEL.
- INSTRUMENTS ON AIR RECEIVER SHALL BE MOUNTED LOCALLY AT ACCESSIBLE ELEVATION.
- EACH AIR RECEIVER DRAIN CONNECTION SHALL BE PROVIDED WITH AUTOMATIC NO AIR LOSS TYPE DRAIN VALVE FOR AUTOMATIC REMOVAL OF DRAIN
- ALL PIPING AND EQUIPMENT EXPOSED TO 60DEG AND ABOVE SHALL BE PROVIDED WITH SUITABLE INSULATION.
- NORMAL WORKING PRESSURE IS 8.0KG/CM2(g) AND DESIGN PRESSURE IS 10.2 KG/CM2(g).
- TAPPINGS SHOWN IS FOR MILL REJECT SYSTEM COMPRESSORS WHICH SHALL BE PLACED INSIDE COMPRESSOR HOUSE BUILDING.
- UNIT AIR RECEIVERS SHALL BE PLACED IN THE AB BAY OF THE POWERHOUSE. FOR LOCATION OF UNIT AIR RECEIVERS REFER DRAWING NO. PE-DG-417-100-M003.
- A) FOR INTERLOCK & PROTECTION/CLCS INSTRUMENTATION SHALL BE TRIPLE REDUNDANT, B) FOR ALARM AND PERMISSIVE INSTRUMENTATION SHALL BE DUAL REDUNDANT, C) FOR INDICATION INSTRUMENTATION SHALL BE SINGLE.

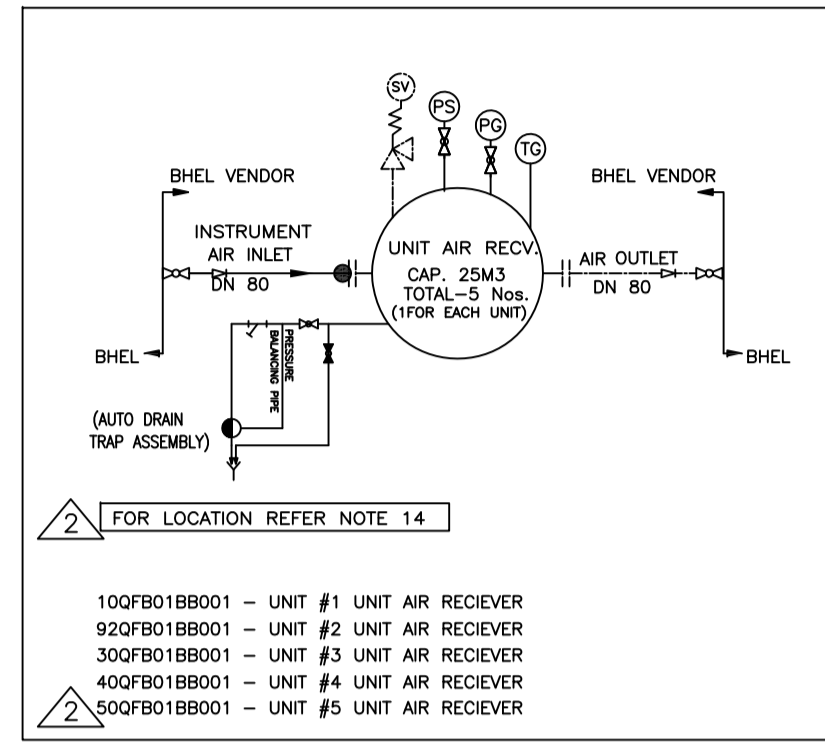
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COMPUTER FILE NAME:

COMPRESSOR HOUSE-1

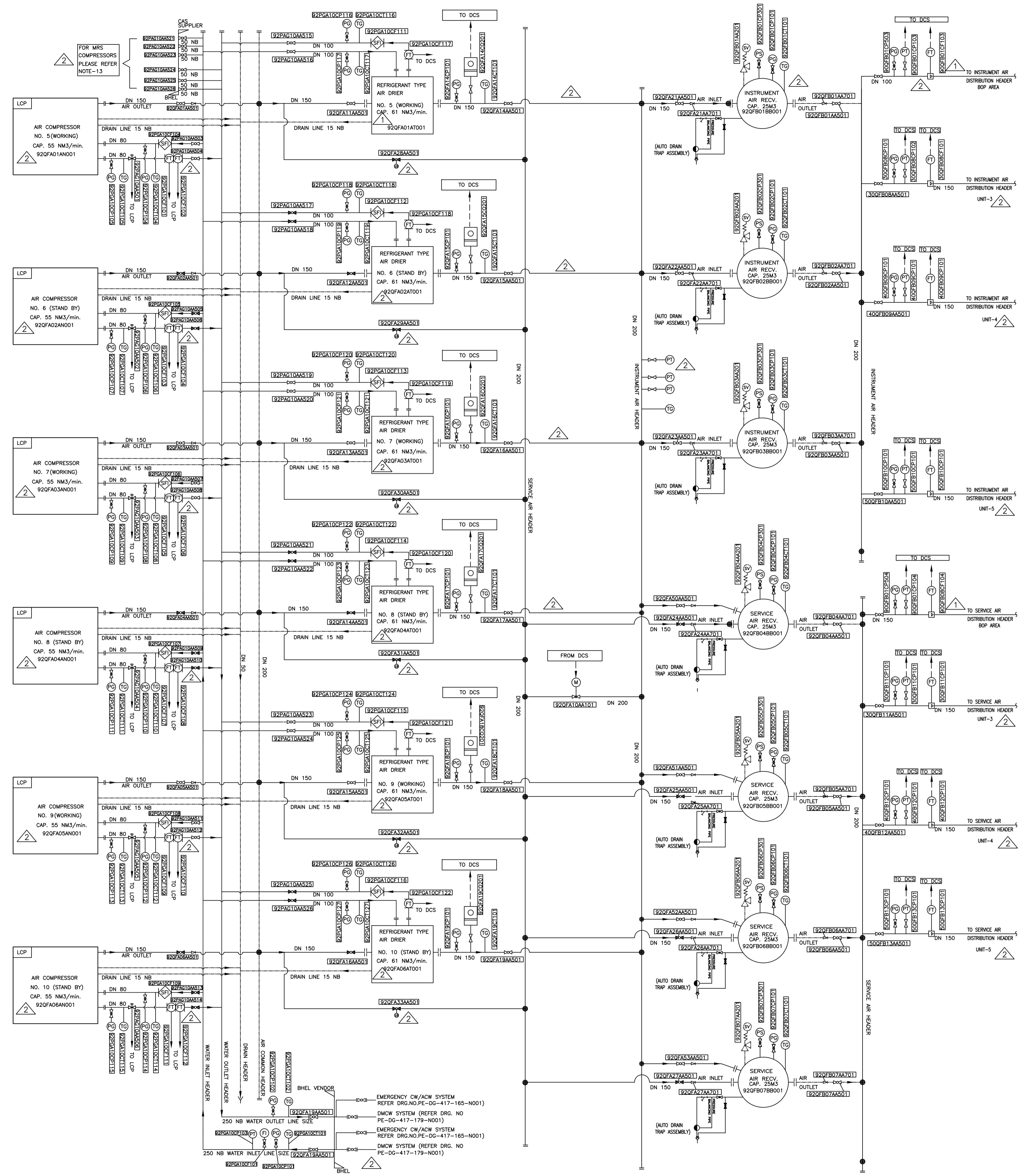
CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA STATE, INDIA 5x800 MW TSGENCO YADADRI TPS,	
CONSULTANT:		TATA CONSULTING ENGINEERS LIMITED BANGALORE	
Maharata Company		BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NOIDA	
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JOB NO. 417		STATUS CONTRACT	
DISTRIBUTION			
TO			
No. OF			
REV.	DATE	ALTD	CHD
01	14.06.18	14.06.18	14.06.18
APPD		APPD	
01		01	
DEPT. NAME SIGN DATE			
DRN MK sd/-		07.12.2017	
DSRN MK sd/-		07.12.2017	
CHD SR sd/-		07.12.2017	
APPD HK sd/-		07.12.2017	
TITLE P & ID OF COMPRESSED AIR SYSTEM WITHIN COMPRESSOR HOUSE			
DEPT. SCALE		DRAWING No.	
SIGN		PE-DG-417-555-A018	
DATE		SHEET 01 OF 02 REV 02	

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<b>JOB NO.</b> 417 <b>STATUS</b> CONTRACT <b>DISTRIBUTION</b> TO No. OF REV. DATE ALTD CHD APPD 01 14.06.18 14.06.18 14.06.18	<table border="1"> <thead> <tr> <th>DEPT CODE</th> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN</td> <td>MK</td> <td>sd/-</td> <td>07.12.2017</td> </tr> <tr> <td>DSN</td> <td>MK</td> <td>sd/-</td> <td>07.12.2017</td> </tr> <tr> <td>CHD</td> <td>SR</td> <td>sd/-</td> <td>07.12.2017</td> </tr> <tr> <td>APPD</td> <td>HK</td> <td>sd/-</td> <td>07.12.2017</td> </tr> </tbody> </table>	DEPT CODE	NAME	SIGN	DATE	DRN	MK	sd/-	07.12.2017	DSN	MK	sd/-	07.12.2017	CHD	SR	sd/-	07.12.2017	APPD	HK	sd/-	07.12.2017
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<b>DRAWING No.</b> PE-DG-417-555-A018 <b>SHEET 02 OF 02</b> <b>REV 02</b>																					

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