



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-31-Jul-18

CORRIGENDUM- 02

PROJECT	:	5X800 MW YADADRI TPS
PACKAGE	:	COMPRESSED AIR SYSTEM
ENQUIRY NO	:	PE/PG/PA1/E-5984/2018 DTD 28/06/2018
SUBJECT	:	TECHNICAL AMENDMENT

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☐

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

Please note the following.

1. Technical amendment 01 to TECHNICAL SPECIFICATION is attached along with the corrigendum -02.
2. New vendor shall consider the same while submitting their offer and the bidder who have already submitted their offer kindly review again and resubmit their offer if required.

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

Guru Das
Dy. Manager

PATRATU SUPER THERMAL POWER STATION EXPANSION PHASE-I (3X800 MW)

AMENDMENT - 01

TECHNICAL SPECIFICATION FOR COMPRESSED AIR SYSTEM PACKAGE

SPECIFICATION NO.: PE- TS- 434- 555- A001



BHARAT HEAVY ELECTRICALS LIMITED

POWER SECTOR

PROJECT ENGINEERING MANAGEMENT

NOIDA, INDIA



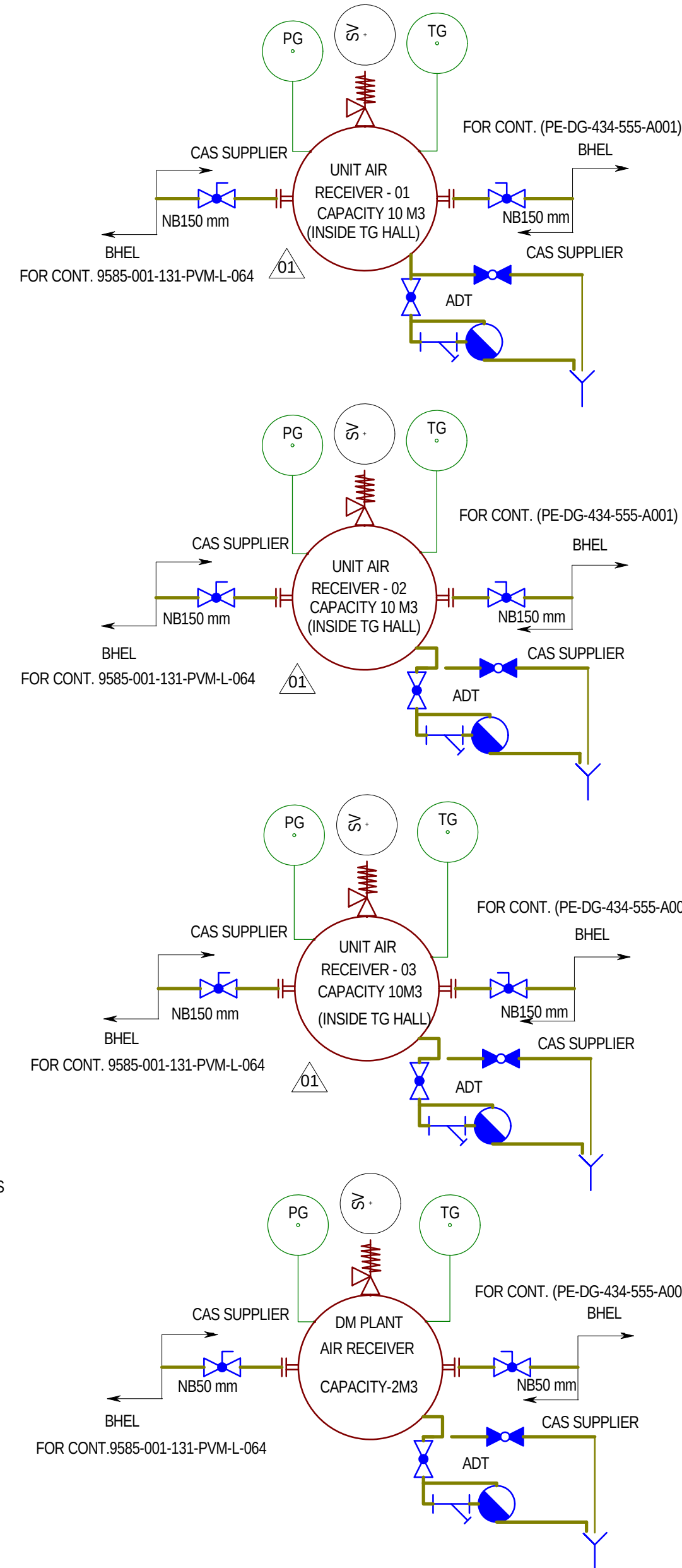
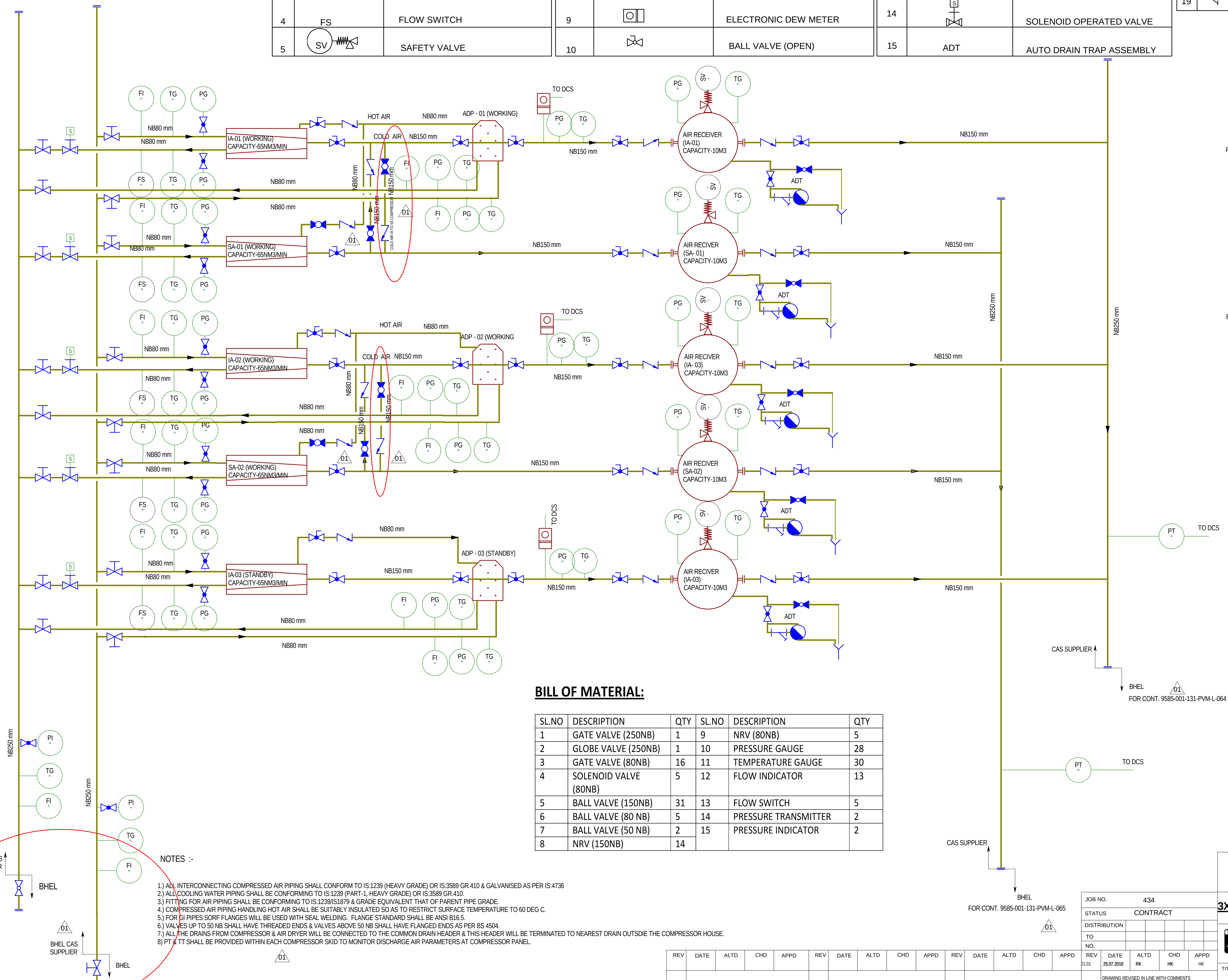
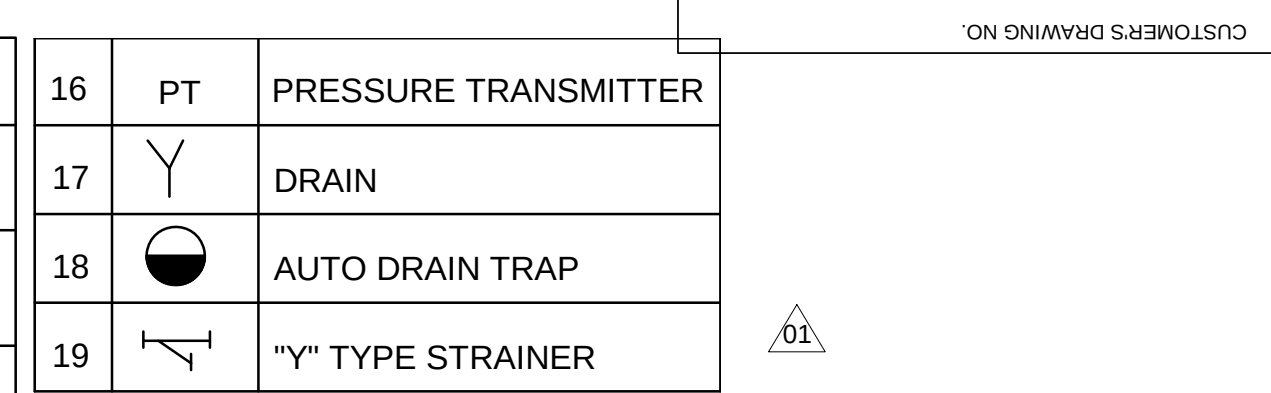
**3 X 800 MW PATRATU STPS
COMPRESSED AIR SYSTEM**

SPECIFICATION NO. PE-TS-434-555-A001

REVISED DRAWING OF SECTION-1, ANNEXURE-III, (INPUT DRAWING) OF TECHNICAL SPECIFICATION ARE ATTACHED AS ANNEXURE- A TO THIS AMENDMENT AND SHALL BE BINDING ON BIDDERS AND SAME SHALL BE SUPERCEDED THE CORRESPONDING CLAUSE OF TECHNICAL SPECIFICATION /AMENDMENT.

ANNEXURE-A

LEGEND			ANNEXURE A					
1	PG	PRESSURE GAUGE	6	IA	INSTRUMENT AIR COMPRESSOR	11		BALL VALVE (NORMALLY CLOSED)
2	TG	TEMPERATURE GAUGE	7	SA	SERVICE AIR COMPRESSOR	12		GATE VALVE
3	FI	FLOW INDICATOR	8	ADP	AIR DRYING PLANT	13		NRV
4	FS	FLOW SWITCH	9		ELECTRONIC DEW METER	14		SOLENOID OPERATED VALVE
5		SAFETY VALVE	10		BALL VALVE (OPEN)	15	ADT	AUTO DRAIN TRAP ASSEMBLY



BILL OF MATERIAL:

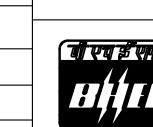
SL.NO	DESCRIPTION	QTY	SL.NO	DESCRIPTION	QTY
1	GATE VALVE (250NB)	1	9	NRV (80NB)	5
2	GLOBE VALVE (250NB)	1	10	PRESSURE GAUGE	28
3	GATE VALVE (80NB)	16	11	TEMPERATURE GAUGE	30
4	SOLENOID VALVE (80NB)	5	12	FLOW INDICATOR	13
5	BALL VALVE (150NB)	31	13	FLOW SWITCH	5
6	BALL VALVE (80 NB)	5	14	PRESSURE TRANSMITTER	2
7	BALL VALVE (50 NB)	2	15	PRESSURE INDICATOR	2
8	NRV (150NB)	14			

NOTES :-

- 1) ALL INTERCONNECTING COMPRESSED AIR PIPING SHALL CONFORM TO IS:1239 (HEAVY GRADE) OR IS:3589 GR.410 & GALVANISED AS PER IS:4736
- 2) ALL COOLING WATER PIPING SHALL BE CONFORMING TO IS:1239 (PART-1: HEAVY GRADE) OR IS:3589 GR.410.
- 3) FITTING FOR AIR PIPING SHALL BE CONFORMING TO IS:1239/S1879 & GRADE EQUIVALENT THAT OF PARENT PIPE GRADE.
- 4) COMPRESSED AIR PIPING HANDLING HOT AIR SHALL BE SUITABLY INSULATED SO AS TO RESTRICT SURFACE TEMPERATURE TO 60 DEG C.
- 5) FOR 6" PIPES SCRF FLANGES WILL BE USED WITH SEAL WELDING. FLANGE STANDARD SHALL BE ANSI B16.5.
- 6) VALVES UP TO 50 NB SHALL HAVE THREADED ENDS & VALVES ABOVE 50 NB SHALL HAVE FLANGED ENDS AS PER BS 4504.
- 7) ALL THE DRAINS FROM COMPRESSOR & AIR DRYER WILL BE CONNECTED TO THE COMMON DRAIN HEADER & THIS HEADER WILL BE TERMINATED TO NEAREST DRAIN OUTSIDE THE COMPRESSOR HOUSE.
- 8) PT & TT SHALL BE PROVIDED WITHIN EACH COMPRESSOR SKID TO MONITOR DISCHARGE AIR PARAMETERS AT COMPRESSOR PANEL.

CUSTOMER : NTPC LTD.
NTPC DRG. NO. : 9585-001-102-PVM-L-144

3X800MW PVUNL PATRATU STPS EXPANSION PHASE-1



BHARAT HEAVY ELECTRICALS LTD.
POWER SECTOR
PROJECTS ENGINEERING MANAGEMENT
NEW DELHI

DEPT CODE	DRN	NAME.	SIGN.	DATE
	DESN	RK	RK	31.05.2018
	CHD	HK	HK	31.05.2018
	APPD	SKB	SKB	31.05.2018

TITLE : P&ID FOR COMPRESSED AIR SYSTEM WITHIN COMPRESSOR HOUSE
(WITH ROTARY TYPE HOC AIR DRYER)

Drawing No. PE-DG-434-555-A018

	DEPT.	SCALE

SIGN		SHEET		REV.
DATE				

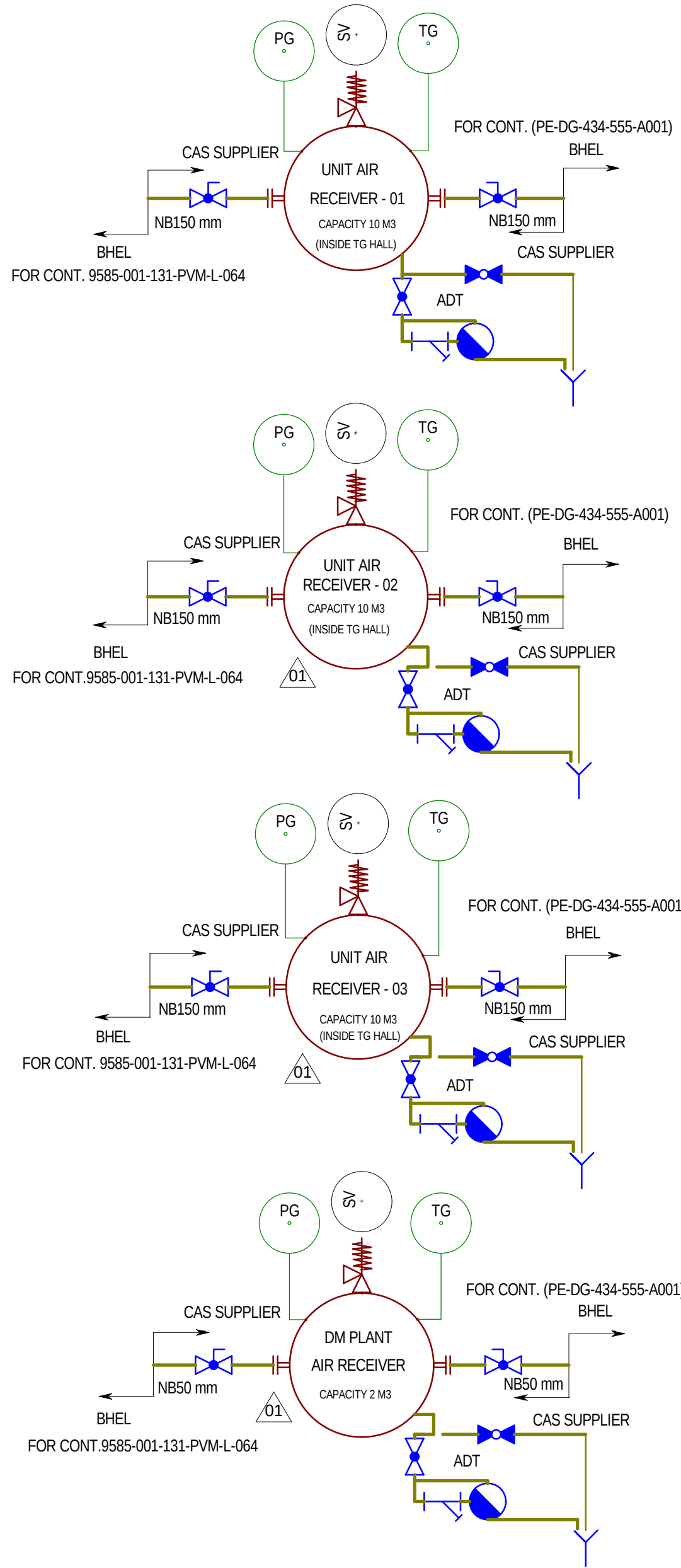
SHEET 1 OF 2 REV. 0 SIZE A

LEGEND

1	PG	PRESSURE GAUGE	6	IA	INSTRUMENT AIR COMPRESSOR	11		BALL VALVE (NORMALLY CLOSED)
2	TG	TEMPERATURE GAUGE	7	SA	SERVICE AIR COMPRESSOR	12		GATE VALVE
3	FI	FLOW INDICATOR	8	ADP	AIR DRYING PLANT	13		NRV
4	FS	FLOW SWITCH	9		ELECTRONIC DEW METER	14		SOLENOID OPERATED VALVE
5		SAFETY VALVE	10		BALL VALVE (OPEN)	15	ADT	AUTO DRAIN TRAP ASSEMBLY

16	PT	PRESSURE TRANSMITTER
17		DRAIN
18		AUTO DRAIN TRAP
19		"Y" TYPE STRAINER

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BILL OF MATERIAL:

SL.NO	DESCRIPTION	QTY	SL.NO	DESCRIPTION	QTY
1	GATE VALVE (250NB)	1	9	NRV (100NB)	4
2	GLOBE VALVE (250NB)	1	10	PRESSURE GAUGE	28
3	GATE VALVE (80NB)	5	11	TEMPERATURE GAUGE	30
4	SOLENOID VALVE (80NB)	27	12	FLOW INDICATOR	13
5	BALL VALVE (150NB)	5	13	FLOW SWITCH	5
6	BALL VALVE (100 NB)	2	14	PRESSURE TRANSMITTER	2
7	BALL VALVE (50 NB)	10	15	PRESSURE INDICATOR	2
8	NRV (150NB)				

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CUSTOMER : NTPC LTD.
NTPC DRG. NO. : 9585-001-102-PVM-L-144

3X800MW PVUNL PATRATU TPP PHASE-1

DEPT	DRN	NAME	SIGN	DATE
DESIGN	RK	RK	RK	31.05.2018
CHD	HK	HK	HK	31.05.2018
APPD	SH	SH	SH	31.05.2018

TITLE : P&ID FOR COMPRESSED AIR SYSTEM WITHIN COMPRESSOR HOUSE
(WITH TWIN TOWER TYPE HOC AIR DRYER)

DEPT	SCALE	Drawing No.
SIGN	DATE	PE-DG-434-555-A018

SHEET 1 OF 2 REV. 01

SIZE-A1