SITE ROUTED PIPING BOQ TO BE ISSUED AS LOOSE MATERIAL				
SL.NO	MATERIAL DESCRIPTION	SPECIFICATIONS	SIZE (IN)	DMD QUANITITY IN METERS OR NUMBERS
1	COUPLINGS	11E	0.5	90
2	COUPLINGS	11E	1	90
3	COUPLINGS	11B	0.5	90
4	COUPLINGS	11B	1	90
5	COUPLINGS	22B	0.5	90
6	COUPLINGS	22B	1	90
7	ELBOWS	11B	1	150
8	ELBOWS	11B	1.5	18
9	ELBOWS	11B	12	24
10	ELBOWS	11B	2	75
11	ELBOWS	11B	28"	3
12	ELBOWS	11D	2	110
13	elbows	11E	0.5	360
14	ELBOWS	11E	2	90
15	ELBOWS	11G	1	60
16	ELBOWS	21B	0.75	285
17	ELBOWS	21B	1	120
18	PIPE	11B	0.75	350
19	PIPE	11B	1	1110
20	PIPE	11B	1.5	245
21	PIPE	11B	12	150
22	PIPE	11B	2	600
23	PIPE	11B	28"	18
24	PIPE	11B	3	60
25	PIPE	11D	2	550
26	PIPE	11E	0.5	1770
27	PIPE	11E	1	150
28	PIPE	11E	2	750
29	PIPE	11G	0.5	240
30	PIPE	11G	1	450
31	PIPE	21B	0.75	1475
32	PIPE	21B	1	630
33	PIPE	21B	1.5	200
34	REDUCERS	11D	2x1	72
35	REDUCERS	11E	0.5	36
36	REDUCERS	11E	0.5x1	12
37	REDUCERS	11E	2x1	9
38	REDUCERS	11G	1x0.5	3
39	STUBS	11B	0.75	700
40	STUBS	11B	1	750
41	STUBS	11B	1.5	103
42	stubs	21B	0.75	150
43	STUBS	21B	1	150
44	stubs	21B	1.5	100
45	tees	11D	2	72
46	tees	11E	0.5	48
47	tees	11E	2	36
48	TEES	11G	1	3

special notes :

1. STUBS INDICATED IN SLNo 39 TO 44 SHALL BE WELDED ON TO THE PIPE AS PER POST BID ISOMETRICS
2. Vendor to note that the Temperature stubs SL.NO (41,44) are non-standard and are to be done as per the applicable specification attached

NOTES:-

1. ALL DIMENSIONS, ELEVATIONS AND CO-ORDINATES ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ELEVATIONS ARE CENTRE LINE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
3. SUPPORT LOCATIONS ARE SUGGESTIVE. TYPE & LOCATION OF PIPE SUPPORTS TO BE FINALISED AFTER COMPLETION OF STRESS ANALYSIS.
4. PIPE FABRICATOR TO CONFIRM THE VALVE/INSTRUMENT DIMENSIONS BEFORE FABRICATING THE SPOOL PIPE. THE OVERALL LEG LENGTH SHOULD REMAIN AS PER THE ISOMETRIC AFTER ACCOUNTING FOR THE DEVIATIONS IN INLINE COMPONENT DIMENSIONS.
5. DRAWING DOES NOT INCLUDE ANY FABRICATION/ERECTION ALLOWANCE UNLESS OTHERWISE SPECIFIED.
6. REINFORCEMENT PAD TO BE CUT FROM RESPECTIVE RUN PIPE.

PRELIMINARY - FOR BID PURPOSE ONLY

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COMPUTER FILE NAME:

REFERENCE DRAWINGS:-

LINE PARAMETERS:-

LEGEND:-

- SUPPORT LOCATION
- DIRECTION OF FLOW
- DIRECTION OF SLOPE
- WELD SYMBOL

A - ANCHOR
R - REST
RG - REST + GUIDE
RL - REST + LIMIT STOP
RGL- DIRECTION ANCHOR
RH - RIGID HANGER
SH - SPRING HANGER
BS - BOTTOM SPRING
VG - VERTICAL GUIDE

RECORD OF REVISIONS:-

REV	ISSUE DATE	DESCRIPTION	DRN BY	CHKD BY	APPRD BY
00P	05-05-14	PRELIMINARY - FOR BID PURPOSE ONLY	PCC	VUK	GS

CONSULTANT:	BECHTEL FREDERICK, MARYLAND, U.S.A		
PROJECT:	STG PACKAGE (4 X 93.1 MW STGs), CCPP HAZIRA MANUFACTURING DIVISION (HMD)		
CUSTOMER:	RELIANCE INDUSTRIES LIMITED COAL BASED CAPTIVE POWER PLANT (CCPP)		
RIL DRG NO. HAZIRA:	10090-HATX00-XXXX-XX-BHL-BXXX		

BHARAT HEAVY ELECTRICALS LTD
PROJECT ENGINEERING & SYSTEMS DIVISION
R.C.PURAM, HYDERABAD-502032.
PE&SD LAYOUTS & PIPING ENGINEERING

	NAME	SIGN	DATE
DRN.	PCC	-SD-	05-05-14
CHKD.	VUK	-SD-	05-05-14
APPRD.	GS	-SD-	05-05-14

SCALE: NTS

TITLE: SITE ROUTED PIPING BOQ-DMD

DRAWING NO: 1-381-01-06080 REV 00P

SHT. No. 1 NO. OF SHTS. 1