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SITE ROUTED PIPING BOQ TO BE ISSUED AS LOOSE MATERIAL				
SL.NO	MATERIAL DESCRIPTION	SPECIFICATIONS	SIZE (IN)	HMD QUANTITY IN METERS OR NUMBERS
1	COUPLINGS	11E	0.5	120
2	COUPLINGS	11E	1	120
3	COUPLINGS	11B	0.5	120
4	COUPLINGS	11B	1	120
5	COUPLINGS	22B	0.5	120
6	COUPLINGS	22B	1	120
7	ELBOWS	11B	1	200
8	ELBOWS	11B	1.5	24
9	ELBOWS	11B	12	32
10	ELBOWS	11B	2	100
11	ELBOWS	11B	28"	4
12	ELBOWS	11D	2	140
13	elbows	11E	0.5	480
14	ELBOWS	11E	2	120
15	ELBOWS	11G	1	80
16	ELBOWS	21B	0.75	380
17	ELBOWS	21B	1	160
18	PIPE	11B	0.75	450
19	PIPE	11B	1	1480
20	PIPE	11B	1.5	210
21	PIPE	11B	12	200
22	PIPE	11B	2	800
23	PIPE	11B	28"	24
24	PIPE	11B	3	80
25	PIPE	11D	2	700
26	PIPE	11E	0.5	2360
27	PIPE	11E	1	200
28	PIPE	11E	2	1000
29	PIPE	11G	0.5	320
30	PIPE	11G	1	600
31	PIPE	21B	0.75	1960
32	PIPE	21B	1	840
33	PIPE	21B	1.5	150
34	REDUCERS	11D	2x1	96
35	REDUCERS	11E	0.5	48
36	REDUCERS	11E	0.5x1	16
37	REDUCERS	11E	2x1	12
38	REDUCERS	11G	1x0.5	4
39	STUBS	11B	0.75	900
40	STUBS	11B	1	1000
41	STUBS	11B	1.5	154
42	stubs	21B	0.75	200
43	STUBS	21B	1	200
44	stubs	21B	1.5	150
45	tees	11D	2	96
46	tees	11E	0.5	64
47	tees	11E	2	48
48	TEES	11G	1	4



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 IN LINE 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


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

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	

 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
TITLE: SITE ROUTED PIPING BOQ-HMD			SCALE: NTS
DRAWING NO: 1-381-01-06079		REV OOP	
SHT. No. 1	NO. OF SHTS. 1		

COMPUTER FILE NAME: