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ITEM SIZE SCH MATERIAL CONTINGENCY QTY

ITEM DESCRIPTION	NB1	SCHEDULE	MATERIAL	CONTINGENCY	QTY
ELBOW LR 90 DEG ASME B16.9 BW	100	S10S	A403GRWP304	4	
ELBOW LR 90 DEG ASME B16.9 BW	100	S40	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	100	STD	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	150	S10S	A403GRWP304	4	
ELBOW LR 90 DEG ASME B16.9 BW	150	S40	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	150	STD	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	200	S20	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	200	S40	A234GRWPB	4	
ELBOW LR 90 DEG ASME B16.9 BW	250	S20	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	250	S40	A234GRWPB	4	
ELBOW 90 DEG LR ASME B16.11 CL3000 SW	40	CL3000	A182GRF304	4	
ELBOW LR 90 DEG ASME B16.9 BW	50	S40	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	50	S40S	A403GRWP304	4	
ELBOW LR 90 DEG ASME B16.9 BW	50	STD	A234GRWPB	10	
ELBOW LR 90 DEG ASME B16.9 BW	80	S10S	A403GRWP304	4	
ELBOW LR 90 DEG ASME B16.9 BW	80	STD	A234GRWPB	4	
PIPE ERW/SAW IS-3589 PE	1000	T10	IS3589GRFE330	6	
PIPE ERW/SAW IS-1239 (PART 1) PE	100	HVY	IS1239(BLACK)	36	
PIPE SMLS ASME B36.10 PE	100	S10S	A312GRTP304	6	
PIPE SMLS ASME B36.10 PE	100	S40	A106GRB	24	
PIPE ERW/SAW IS-1239 (PART 1) PE	150	HVY	IS1239(BLACK)	36	
PIPE SMLS ASME B36.10 PE	150	S10S	A312GRTP304	24	
PIPE SMLS ASME B36.10 PE	150	S40	A106GRB	100	
PIPE SMLS ASME B36.10 PE	200	S20	A106GRB	24	
PIPE SMLS ASME B36.10 PE	200	S40	A106GRB	12	
PIPE ERW/SAW IS-3589 PE	200	T6	IS3589GRFE330	24	
PIPE SMLS ASME B36.10 PE	250	S10S	A312GRTP304	6	
PIPE SMLS ASME B36.10 PE	250	S20	A106GRB	36	
PIPE SMLS ASME B36.10 PE	250	S40	A106GRB	12	
PIPE ERW/SAW IS-3589 PE	250	T6	IS3589GRFE330	6	
PIPE SMLS ASME B36.10 PE	300	S10S	A312GRTP304	6	
PIPE SMLS ASME B36.10 PE	300	S20	A106GRB	6	
PIPE ERW/SAW IS-3589 PE	300	T6	IS3589GRFE330	6	
PIPE SMLS ASME B36.10 PE	350	S10S	A312GRTP304	36	
PIPE SMLS ASME B36.10 PE	350	S40	A106GRB	6	
PIPE ERW/SAW IS-3589 PE	350	T6	IS3589GRFE330	18	
PIPE EFSW ASME B36.10 PE	400	S10	A672GRB60	6	
PIPE ERW/SAW IS-3589 PE	400	T6	IS3589GRFE330	36	
PIPE SMLS ASME B36.10 PE	40	S40S	A312GRTP304	18	
PIPE ERW/SAW IS-3589 PE	450	T6	IS3589GRFE330	6	
PIPE EFSW ASME B36.10 PE	500	S10	A672GRB60	6	
PIPE SMLS ASME B36.10 PE	500	S10S	A312GRTP304	12	
PIPE ERW/SAW IS-3589 PE	500	T6	IS3589GRFE330	24	
PIPE ERW/SAW IS-1239 (PART 1) PE	50	HVY	IS1239(BLACK)	36	
PIPE ERW/SAW IS-1239 (PART 1) PE	50	HVY	IS1239(GALV)	6	
PIPE SMLS ASME B36.10 PE	50	S40	A106GRB	36	
PIPE SMLS ASME B36.10 PE	50	S40S	A312GRTP304	18	
PIPE ERW/SAW IS-3589 PE	600	T8	IS3589GRFE330	18	
PIPE ERW/SAW IS-3589 PE	700	T8	IS3589GRFE330	6	
PIPE ERW/SAW IS-3589 PE	750	T8	IS3589GRFE330	12	
PIPE ERW/SAW IS-1239 (PART 1) PE	80	HVY	IS1239(BLACK)	36	
PIPE SMLS ASME B36.10 PE	80	S10S	A312GRTP304	18	
PIPE ERW/SAW IS-3589 PE	900	T10	IS3589GRFE330	24	
PIPE EFSW ASME B36.10 PE	900	XS	A672GRB60	6	

NOTES:-

- ALL DIMENSIONS, ELEVATIONS AND CO-ORDINATES ARE IN MM UNLESS OTHERWISE SPECIFIED.
- ELEVATIONS ARE CENTRE LINE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- SUPPORT LOCATIONS ARE SUGGESTIVE. TYPE & LOCATION OF PIPE SUPPORTS TO BE FINALISED AFTER COMPLETION OF STRESS ANALYSIS.
- 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.
- DRAWING DOES NOT INCLUDE ANY FABRICATION/ERECTION ALLOWANCE UNLESS OTHERWISE SPECIFIED.
- 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), CAPP HAZIRA MANUFACTURING DIVISION (HMD)
CUSTOMER:	RELIANCE INDUSTRIES LIMITED COAL BASED CAPTIVE POWER PLANT (CAPP)
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
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