



MONTHLY CHECKLIST CUM COMPLIANCE REPORT REGARDING HSE (4/6)

Item	Yes	No	Remark	Action
TEMPORARY FACILITIES				
Emergency instruction posted				
Fire extinguishers provided				
Fire-aid equipment				
Secured against storm damage				
General nemeses				
In accordance with electrical requirements				
Other				
Fire Prevention				
Personnel instructed				
Fire extinguishers checked				
No smoking in prohibited areas				
Hydrants clear				
Other				
ELECTRICAL				
Proper wiring & earthing				
ELCB's provided				
Ground fault circuit interruptors				
Protection against damage				
Prevention of tripping hazards				
Proper electrical cable joints				
Light poles secured				
Clear way to power distribution board				
Proper rating of fuses				



MONTHLY CHECKLIST CUM COMPLIANCE REPORT REGARDING HSE (5/6)

Item	Yes	No	Remark	Action
<b>HANDLING AND STORAGE OF MATERIALS</b>				
Properly stored or stacked				
Passageways clear				
Other				
<b>FLAMMABLE GASES AND LIQUIDS</b>				
Containers clearly identified				
Proper storage				
Fire extinguishers nearby				
Other				
<b>WORKING AT HEIGHT</b>				
Erection plan				
Safety nets				
Safety belts tied properly				
Illumination				
No loose material at height				
No body under working area				
All openings covered				
Other				
<b>ENVIRONMENT</b>				
Chemical and other Effluents properly disposed				
Cleaning liquid of pipes disposed off properly				
Seawater used for hydrotesting disposed off as per agreed proceeding				
Lubricant Waste/ Engine oils properly disposed				
Waster from Canteen office, sanitation etc. disposed properly				
Disposal of surplus earth stripping materials, Oily rags and combustible materials done properly				
Green belt protection.				



MONTHLY CHECKLIST CUM COMPLIANCE REPORT REGARDING HSE (6/6)

Item	Yes	No	Remark	Action
HEALTH CHECK				
Hygienic conditions at labour camps OL				
Availability of First Aid facilities				
Proper sanitation at site, office and labour camps				
Arrangements of medical facility				
Measures for dealing with illness				
Availability of potable drinking waters for workmen & staff				
Provision of cretches for children				
ERECTION				
Slings/ D shackle checked				
Signal Man				
Tag line for guiding the load				
Protecting the slings from sharp edges				
No loose materials at height				
Ladder & platform welding inspected				
No one under the suspended load				
Stay rope				
SWL				

.....  
Signature Of Resident Engineer with Seal



Monthly Health, Safety & Environmental (HSE) Report  
(To be submitted by each Contractor)

Actual work start date : \_\_\_\_\_ for the month of: \_\_\_\_\_

Project: \_\_\_\_\_ Report No : \_\_\_\_\_

Name of the Contractor: \_\_\_\_\_ Status as on: \_\_\_\_\_

Name of work: \_\_\_\_\_

Name of safety officer \_\_\_\_\_

Item	This Month	Cumulative
Total strength (Staff - Workmen)		
Number of HSE meeting organised at site		
Number of HSE awareness programs conducted at site		
Whether workmen compensation policy taken	Y/N	
Whether workmen compensation policy valid	Y/N	
Whether workmen registered under ESI Act	Y/N	
Number of Fatal Accident		
Number of Loss Time Accident (Other than Fatal)		
Other accident (non loss time)		
Total No. of accident		
Total man-hours worked		
Man-hour loss due to fire and accident		
Compensation cases raised with insurance		
Compensation cases resolved and paid to workmen		

Remark

Date: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

Safety Officer/RCM

(Signature and Name)

To: OWNER..... 1 COPY  
1 COPY RCM/SITE-IN-CHARGE 1 COPY



SUPPLEMENTARY ACCIDENT, INCIDENT&NEAR MISS REPORT

Project: \_\_\_\_\_ Supplementary to report No. \_\_\_\_\_

Site : \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_

NAME OF THE INJURED.....

FATHER'S NAME.....

SUB-CONTRACTOR M/S.....

DATE & TIME OF ACCIDENT.....

LOCATION.....

BRIEF DESCRIPTION & CAUSE OF A ACCIDENT

NATURE OF INJURY / DAMAGE

COMMENTS FROM MEDICAL PRACTITIONER WHO ATTENDED THE VICITIM/INJURED

SUGGESTED IMPROVEMENT IN THE WORKING CONDITION IF ANY

LOSS OF MANHOURS AND IMPACT ON SITE WORKS

ANY OTHER COMMENT BY SAFETY OFFICER

Date: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

SIGNATURE OF CONTRACTOR WITH SEAL

To : OWNER.....1 COPY

: RCM/SITE-IN-CHARGE.....1 COPY



ACCIDENT REPORT

(To be submitted by Contractor after every accident within 2 hours of accident)

Report No. \_\_\_\_\_ Date: \_\_\_\_\_  
Name of Site: \_\_\_\_\_ CONTRACTOR \_\_\_\_\_

NAME OF THE INJURED.....  
FATHER'S NAME..... SUB-  
CONTRACTOR M/S.....  
DATE & TIME OF ACCIDENT.....  
LOCATION.....

\_\_\_\_\_  
BRIEF DESCRIPTION OF ACCIDENT

\_\_\_\_\_  
CAUSE OF ACCIDENT

\_\_\_\_\_  
NATURE OF INJURY / DAMAGE

\_\_\_\_\_  
MEDICAL AID PROVIDED / ACTIONS TAKEN

\_\_\_\_\_  
INTIMATION TO LOCAL AUTHORITIES

Date : \_\_\_\_/\_\_\_\_/\_\_\_\_ SIGNATURE OF CONTRACTOR WITH SEAL

To : OWNER..... 1 COPY  
RCM/SITE-IN-CHARGE 1 COPY



## PIPING SPECIFICATION

**SPECIFICATION NO**

**1C1**

**SHEET 1 OF 6**

**REV 0**

**BASIC PIPING SPECIFICATION DATAS**

**MAXIMUM DESIGN CONDITIONS**

		MAXIMUM DESIGN CONDITIONS			
		TEMPERATURE ° C		PRESSURE bar g	
<b>PRIMARY FLANGE RATING</b>	150#-RF	NG	0 to 60	NG	19.00
		AG	60	AG	19.00
<b>BASIC MATERIAL</b>	CARBON STEEL				
<b>CORROSION ALLOWACE</b>	1.6 mm				
<b>X-RAYS</b>	100%				
<b>SIZE RANGE</b>	1/2"-12"				
<b>CODE</b>	ANSI B 31.8				

**FLUIDS**

**NG : NATURAL GAS**

**AG : ACTUATING GAS**

0	FIRST ISSUE	20.06.2017	MD	ADE	AD
REV	DESCRIPTION	DATE	AUTHOR	CHECKER	APPROVED



## PIPING SPECIFICATIONS

**SPECIFICATION NO**  
**1C1**  
**SHEET 2 OF 6**  
**REV 0**

ITEM	SHORT CODE	SIZE FROM-THRU	END CONNECTION	RATING AND/OR SCHED.	DIMENSION STANDARD	MATERIAL	REMARKS
PIPES	P	1/2" - 2" 3" - 12"	BE-ANSI B16-25	40	ANSI B36-10	ASTM A 106 Gr. B	SEAMLESS
			BE-ANSI B16-25	40	ANSI B36-10	ASTM A 106 Gr. B	SEAMLESS
ELBOWS 90 LR	E	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
ELBOWS 46 LR	E46	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
ELBOWS 30 LR	E30	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
ELBOWS 22.5 LR	E22.6	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
ELBOWS 16 LR	E16	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
REDUCERS	RC	3/4"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
REDUCERS	RE	3/4"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
TEES EQUAL	T	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
TEES RED	TR	3/4"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
WELDOLETS	WEL	1.1/2"-12"	BW - ANSI B16-25	SEE PIPE	MANUFACTURER	ASTM A 105	SEAMLESS
CAPS	C	1/2"- 12"	BW - ANSI B16-25	SEE PIPE	ANSI B16-9	ASTM A 234 WPB	SEAMLESS
NIPPLES	NBEP	1/2" - 1.1/2"	BOTH ENDS PLAIN	80	ANSI B36-10	ASTM A 106 Gr. B	SEAMLESS-LG=100mm
	NOET	1/2" - 1.1/2"	ONE END THRD-MNPT	80	ANSI B36-10	ASTM A 106 Gr. B	SEAMLESS-LG=100mm
	NBET	1/2" - 1.1/2"	BOTH ENDS THRD-MNPT	80	ANSI B36-10	ASTM A 106 Gr. B	SEAMLESS-LG=100mm
FULL COUPLINGS THRD	CF	1/2" - 1.1/2"	FNPT ANSI B1-20-1	1500#	ANSI B16-11	ASTM A 105	SEAMLESS
CAPS THRD	C2	1/2" - 1.1/2"	FNPT ANSI B1-20-1	1500#	ANSI B16-11	ASTM A 105	SEAMLESS
PLUGS THRD	PL	1/2" - 1.1/2"	MNPT ANSI B1-20-1	1500#	ANSI B16-11	ASTM A 105	SEAMLESS





## PIPING SPECIFICATIONS

**SPECIFICATION NO  
1C1  
SHEET 3 OF 6  
REV 0**

ITEM	SHORT CODE	SIZE FROM-THRU	END CONNECTION	RATING AND/OR SCHED.	DIMENSION STANDARD	MATERIAL	REMARKS
WN FLANGES	F	1/2"-12"		150# RF SEE PIPE	ANSI B16-5	ASTM A 105	WN to match with 1C1 pipe
ORIFICE  FLANGES	FO	1" - 12"		150# RF SEE PIPE	ANSI B16-36	ASTM A 105	COMPLETE WITH GASKET BOLTS, NUTS  JACK-SCREWS AND PLUGS
BLIND FLANGES	FB	1"-12"		150# RF	ANSI B16-5	ASTM A 105	
DRIP RINGS	DR	1" - 12"		150# RF	MANUF STD.	ASTM A 105	3/4" FNPT OUTLET CONNECTION
SPECTACLE BLINDS	SB	1" - 12"		150# RF	ANSI B16-5	ASTM A 515 GR 70	
RESTRICTION ORIFICES	RO	1" - 12"		150# RF	ANSI B16-5	ASTM A240 GR 304	
MONOLITHIC INSULATING JOINTS	IJ	2"-12"	BW - ANSI B16-25	150#	ANSI B16-5	PIPE PUPS: ASTM A 106 Gr.B	REFER DATA SHEET
STUD BOLTS	B	1/2" - 12"		150# RF	ANSI B18.2.1 ANSI B18.2.2	ASTM A 193 B 7 HEXAGONAL NUTS ASTM A194 GR 2H	
GASKETS  SPIRAL  WOUND	G	1/2"-12"		150# RF	API 601 MSS SP 44	WINDING ANSI 304 FILLING PURE GRAPHITE CENTERING RING CS	4.5 mm THK



## PIPING SPECIFICATIONS

**SPECIFICATION NO**

**1C1**

**SHEET 4 OF 6**

**REV 0**

ITEM	SHORT CODE	SIZE FROM-THRU	END CONNECTION	RATING AND/OR SCHED.	DIMENSION STANDARD	MATERIAL	REMARKS
BALL VALVES	VBA	1/2" - 1 1/2"	FLGD RF:ANSI B16-5	600#	ANSI B16-10	BODY: ASTM A 105  BALL: ASTM A218 WCB / A 234 WPA / A 395 WITH ENP (75 microns)	FULL BORE WRENCH OPERATED. FIRE SAFE
		2" - 3"	FLGD RF:ANSI B16-5	150#	ANSI B16-10	BODY: ASTM A 216 WCB BALL: ASTM A 216 WCB / A 234 WPB / A 395 with ENP ( 75 microns )	FULL BORE WRENCH OPERATED. FIRE SAFE
		4" - 8"	FLGD RF:ANSI B16-5	150#	ANSI B16-10	BODY: ASTM A 216 WCB BALL: ASTM A 216 WCB / A 234 WPB / A 395 with ENP ( 75 microns )	FULL BORE GEAR OPERATED FIRE SAFE
GLOBE VALVES	VGL	1/2"-1 1/2"	FLGD RF:ANSI B16-5	600#	ANSI B16-10	BODY: ASTM A 105  TRIM: ASTM A182 F6	HANDWHEEL FIRE SAFE
		2" - 8"	FLGD RF:ANSI B16-5	150#	ANSI B16-10	BODY: ASTM A 216 WCB TRIM: ASTM A 182 F6	HANDWHEEL FIRE SAFE
SWING CHECK VALVES	VCH	1/2" - 1 1/2"	FLGD RF:ANSI B16-5	600#	ANSI B16-10	BODY: ASTM A 105 TRIM: ASTM A182 F6	HORIZONTAL INSTALLATION VERTICAL INSTALLATION FLOW UPWARDS
		2" - 18"	FLGD RF:ANSI B16-5	150#	ANSI B16-10	BODY: ASTM A 216 WCB TRIM: ASTM A182 F6	HORIZONTAL INSTALLATION VERTICAL INSTALLATION FLOW UPWARDS