PACKAGE: PROJECT:	FLANGES			MMLH/FPS/13			
ROJECT:							
ROJECT:	FIRE PROTECTION SYSTEM		REV.	0	DATE:	12.10.2017	
	MMLH, VIZAG		SHEET	1	OF	1	
1.0	Manufacturer	:	JINDAL / TATA / SAII	/ Equivalent Make		· · · · · · · · · · · · · · · · · · ·	
2.0	PIPING (UNDERGROUND / ABOVE GROUND / IN TRENC						
2.1	Standard		IS: 1239 (Part-I), IS:	3589, Gr 330			
2.2	Туре	:	ERW / Spiral Weld				
2.3	Class & Grade	:					
			a. Up to 150NB MS Black Heavy grade to IS: 1239 (Part-1)				
		b	o. 200 NB TO 400 NB M	S Black to IS: 3589	Grade 410		
2.4	Thickness	:	a. Up to 150 NB /	As per IS 1239 (Part	-1), Heavy		
2.5	Detail of end connection	:	b. 200 NB to 400 NP lain ends or Beveled	IB – 6.4 mm thk. ends			
3.0	PIPING – NORMALLY EMPTY						
			IC . 1000 D1 /O	-:d\ /10:2500 Q	220 /0-1		
3.1	Standard	:	IS: 1239 Part-I (Galva	nised) / IS:3589 Gr.	330 (Galvar	nised to IS: 4/36	
3.2	Туре		ERW				
	Class & Grade			dium amada ta IC . 1	000 Devi 1 ev	-d MC	
3.3	Class & Grade	:	: M.S Galvanised to medium grade to IS : 1239 Part – I and MS Galvanised, 6mm thk to IS 3589 Gr.410				
3.4	Thickness		•		Цооли		
3.4	THICKHESS	•	a. Up to 150 NB As po		-		
			b. 200 NB as per IS: 3	589, Gr.410, 6mm v	all thickness		
3.5	Detail of end connection	:	Screwed				
4.0	Quantity	:	As per appd. Drawing				
5.0	Inspection & Testing	:	As per appd.QAP				
6.0	Type of protective coating	:	For U/G Pipes PYPKOTE As per IS Ref-Data Sheet : Wra		terial		
8.0	M.S.Fittings			,, , , , , , ,			
8.1	Manufacturer		Bharat Forge/ Tube Pr Equivalent approved n		/ Sanjay Forg	e/ VS Brand /	
8.2	Material Standard		IS: 1239 , Part II				
8.3	Dimensional Standard		50 NB & Below				
0.0	Dimonoral Standard		ASME B 16.11, CL 30	00			
			65 NB to 150 NB				
			Butt welded as per AS	ME B 16 0			
			200NB to 400 NB	WE B 10.0			
8.3	Galvanised Fittings						
8.4	Manufacturer		H.B. INDUSTRIES/ ed	uivalent			
8.5	Material Standard		Malleable cast iron to	•	300 as nor 10	14329	
	Dimensional Standard			10 2 100 Graut DIVI-	ooo as per is	17020	
8.6			IS 1879				
8.7	Galvanising		IS 4759				
8.8	Flanges & Blind flanges		04.405				
	Material Standard		SA 105		_		
	Drilling Standard		Confirming to ASME B 16.5, 150 #, SORF				
8.9	Quantities of fittings		As per approved draw	ings			
8.10	Bolts and nuts & Washers		Machine Bolts, For Size M 16 & Below IS: 1367 Gr. 8.8. & For Size M 2 & Above IS: 1367 Gr. 6.8. Heavy Hexagonal Nut For Size M 16 & Below IS: 1367 Gr. 8.0. & For Size M 20 & Above IS: 1367 Gr. 6.0. All nut, bolt & washers shall be galvanised.				
8.11	Gaskets		Champion AF 120 - 3	mm Thk. Non Asbes	stos		