

**BHEL's replies to Pre-Bid Queries on Foam Protection System**

Project 2x250 M W BSEB Barauni

Doc Ref.: PEM C 03845, Rev No. 00.

Sl.No	Ref.Clause No.	Section	Page No	Tender requirement	Contradictory statement in the enquiry	Bidders Queries	Final Resolution
1	Clause 5 of additional points and 10.1.1 (i) , para 4		20 of 164 & 27 of 164	all components of foam protection system including foam storage tanks, valves, pipes, fittings etc. shall be of stainless steel construction.	Foam concentrate tanks with two coats of Zinc Chromate primer as per IS 2074, followed by 2 mm thick FRP lining.	Please clarify the M OC of Foam tank whether SS or M S with FRP lining	Foam concentrate tanks with two coats of Zinc Chromate primer as per IS 2074, followed by 2 mm thick FRP lining.
2	10.1.1 (b)		26 of 164	Water for the foam system shall be tapped off from the hydrant system.		Please clarify that tapping of water for Foam system need to be taken from 2 sides or from a single tapping?	Tapping of water for Foam system need to be taken from 1 side.
3	2.7			Bidder to note that they shall not be permitted for any claim for additional commercial implication on any account during detail engineering stage including the following:			
4				- Change (increase/decrease) in quantities in the equipments/areas covered by different FPS facilities.		Bidder will follow tender based drg furnished by BHEL only. Any addition in scope of area increase shall be paid by BHEL at extra cost.	Scope for Foam protection system is as per specification.
5	10.1.2.			LOCAL CONTROL PANEL			
6				The panel shall be PLC based (supplied by others) and all the controls of the foam pump house equipment shall be controlled by PLC system.		Foam pumps are coming with dedicated controllers and they will be controlled from locally. Only status of foam pumps will be made available to PLC system, which is to be located in F/W pumphouse. Please confirm your requirement.	Please follow specification requirement
7	11.6			All piping for the FPS shall be welded type.		In the absence of standards to be followed for pipes & fitting, we follow IS 1239 Part I for piping upto 150 dia & IS 3589 for 200 dia & above with 6 mm thick. For fittings, IS 1239 Part II for upto 150 dia & fabricated from parent pipes for 200 dia & above.	Pipe thickness shall be 6.35 mm for sizes 200 to 350NB, 7 mm for 400 NB and 8 mm for sizes 450 NB and above. The pipe protection shall be as follows: To prevent soil corrosion, buried pipes shall be properly lagged with 4mm thick wrapping and coating corrosion protection tape as per IS: 10221/IS:15337. <b>Above ground piping</b> a) Material GI for spray system after deluge valve / M S for other system b) Standard (Pipes) IS 1239/ IS 3589 c) Standard (Fitting) IS 1239 part II/ TAC d) Class Medium Note : pipes NB 200 mm & above shall have thickness of 6.35 mm. e) Type of joint Welded / Flanged f) Type of protection Painted (Two coats of Grey zinc primer. Two coats of enamel paint each 75 microns thickness.) <b>Underground piping</b> a) Material M S b) Standard (Pipes) IS 3589/ IS 1239 Part – I c) Standard (Fitting) IS 1239 part II for fittings NB 150 & below & Fabricated from parent pipes for NB 200 & above d) Type of joints Welded e) Type of protection IS 10221/ IS 15337-2003 f) Class Medium (pipes NB 200 mm & above shall have thickness of 6.35 mm.)
8	11.2.2			Isolation Valves shall be gate valve type.		Kindly clarify the type of Gate Valve, i.e..Rising or Non rising .	Type of valve shall be followed as per TAC.