

ANNEXURE V : PRE BID CLARIFICATIONS

Purchaser's Clarifications to Bidder's Queries - NTPC Karanpura - Fire Water Storage Tanks

Sr.No.	Section / Part/Subsection	Page No.	Clause No.	Bid Specification	Bidder's Query	Purchaser's Reply Dtd: 30.12.15
1	ANNEXURE IV (e) - DATA SHEET FOR LEVEL INDICATOR	Page 3 of 3	Sr.no 1	Type: Float and Dial Type Level Gauge	Both referred clauses are contradicting each other. Kindly clarify the type of level gauge to be considered.	Float and Dial Type level indicator shall be considered.
	Annexure-VII : CHECK LIST	Page 3 of 6	Sr.no 7	As per Datasheet for Fire Water Storage Tanks (Annexure-I) following instrumentation in Bidder's Scope of Supply. 1. 1 No. Float and Board Type Mechanical Level gauge for each tank.		
2	Product standard : PY51217, Rev no.00	Page 7 of 27	Clause No. 3.1	SCOPE OF SUPPLY: (Two Nos of Fire Water Storage Tanks, each of capacity 2300 cu.m)	Referred clauses are contradicting each other. Please clarify the number of fire water storage tanks.	There are 2 Nos of Fire Water Storage Tank, Each of Net Capacity 2300 cu.m
	Annexure-VII : CHECK LIST	Page 6 of 6	Sr.no 277	Size and No. of Foundation Bolts for all the three tanks are indicated in Bidder's offer. Bidder to Confirm.		
3	Product standard : PY51217, Rev no.00	Page 9 of 27	Clause No. 3.1	SCOPE OF SUPPLY: o) 1 no. of 100 NB size Drain valve for each tank as per Annexure-IX- Reference P&ID.	Referred clause calls for 100NB butterfly valve as a drain valve. Kindly provide the valve MOC for the same.	Design Code: Double flanged or lugged wafer type of low leakage rate confirming to BS:EN:593/API-609/AWWA C-504 Pressure class: PN 16. MoC of Butterfly valve: Body & Disc : Cast Iron, Shaft : SS 410 / SS 420 Seat Rings : EPDM
4	Product standard : PY51217, Rev no.00	Page 9 of 27	Clause No. 3.1	SCOPE OF SUPPLY: o) 1 no. of 100 NB size Drain valve for each tank as per Annexure-IX- Reference P&ID.	Referred clause calls for 100NB butterfly valve as a drain valve. Kindly provide the valve MOC for the same.	Design Code: Double flanged or lugged wafer type of low leakage rate confirming to BS:EN:593/API-609/AWWA C-504 Pressure class: PN 16. MoC of Butterfly valve: Body & Disc : Cast Iron, Shaft : SS 410 / SS 420 Seat Rings : EPDM

5	Annexure-I Datasheet for Fire Water Storage Tanks	Page 3 of 5	Clause No. 3 Material of construction	Nozzle necks : Up to 150NB IS1239 PART-I HEAVY GRADE , ERW. 200NB & Above IS3589 Gr.Fe330, ERW with 6.35thk	Both referred clauses are contradicting each other regarding thickness. Kindly clarify which grade to consider (heavy grade or medium grade) for nozzle pipes.	Material of construction indicated in Annexure-II: Piping Material Specification shall be followed.
	Annexure-II Piping Material Specification	Page 17 of 21	Clause No. 8.01.00 General Data for Pipes etc.	iv) Pipe thickness: a) For Pipe sizes upto 150 NB and above: As per IS:1239 Part-I medium grade . b) For Pipe sizes 200 NB and		
6	Product standard : PY51217, Rev no.00	Page 7 of 27	Clause No. 3.1 Scope of Supply	Supply of Material for Fabrication of 2 Nos of Fire Water Storage Tanks, each of net capacity 2300 cu.m	The present scope defined by you will be advantageous to the Manufacturer located within Jharkand State. We suggest for exclusive Design, Co- Ordination for procurement and Site Visits for Inspection or monitoring to suit BHEL Hyderabad interest. In case you agree for preliminary materials preparation at our workshop for suiting to erection and welding at sight by any agency	Bidder to follow the requirements indicated in the tender specification.
7	Product standard : PY51217, Rev no.00	Page 7 of 27	Clause No. 3.0 Scope of Supply	SCOPE OF SUPPLY, SCOPE OF SERVICES, EXCLUSIONS AND TERMINAL POINT DETAILS	Scope to include making preparation at our workshop	Bidder to follow the requirements indicated in the tender specification.
8	Annexure-IX: Reference P&IDs	Page 62 of 74	P&ID for Fire Water Pumping System	Overflow line along with drain line is in bidder scope of supply	Overflow line shall be only 1000mm away from shell and terminate at the bottom	As per Cl. No. 3.4.2, Pg 11 of 27 of Product Standard, Doc. No. PY51217, overflow & drains the terminal point shall be the nearest storm water drain system which will be 20 mtrs away.

9	Annexure-I Datasheet for Fire Water Storage Tanks	Page 2 of 5	2.1	Thickness provided for 10.0 (1st course), 8.0 (2nd, 3rd & 4th courses) & 6.0 (remaining courses).	We would like to inform you that the Shell plates thickness mentioned in the Data sheet (Sl. No. 2.10(a) is varies as per calculation of IS 803 (Page 22 and 23).	Bidder to note that thicknesses of shell plate indicated in tender specifications are arrived considering joint efficiency factor of 0.85. Bidder to consider the thicknesses indicated in the tender specification.
10	Technical specifications	9 of 27	3.1P	All the required material for routing the drain and over-flow of the tanks to the nearest storm water drain system located at 20 mtrs away from the edge of tank foundation. These shall include necessary piping (approximately 75 mtrs of 14" pipe(8 mm thick), 10 nos. of 14" elbows, 3 nos. of 14" Tees), fittings, nozzles, valves, flanges, fasteners etc. These material is requirement of two no of water tanks.	We understand 75mtrs is taken from overflow nozzle which is located on top course of shell to storm drain . Please confirm	75 Meters shall be considered from the top shell course(Overflow nozzle) upto the storm water drain which is approximately 20 away from the edge of tank foundation.
11	Price BID	Annexure-VIII	B2	Price for Fabrication, Erection, Inspection, Testing, Painting, Commissioning and Handing over of 2 Nos of fire water tanks(See Note-6)	Note No: 6 is not related to this clause. This clause is for optional price for fabrication, erection, inspection, testing, commissioning and handing over tanks. Please clarify supply of painting is in whose scope	As per S.No. B2 of Annexure-VIII(Price Bid Format), bidder to quote optional price for Fabrication, Erection, Inspection, Testing, Painting, Commissioning and Handing over of 2 Nos of fire water tanks. In this clause, bidder may refer note-7, instead of note-6. Refer Cl. No. 6 of Pg 15 of 27 of Product Standard Doc. No. PY 51217, painting is excluded from bidder scope. Hence supply of paint is also excluded from bidder scope.
12	Technical specifications	data sheet	5	Internal painting: 1coat of ZP primer 35microns and 3 coats of epoxy zinc rich paint of 25microns each. Total thickness shall not be less than 400 micron External painting: 1coat of ZP primer 35 microns and 3 coats of epoxy zinc rich paint of 25 microns each. Total thickness shall not be less than 300 microns	Individual DFT and total DFT is contradictory. Kindly confirm final DFT	As painting(Supply and Coating) is excluded from bidder's scope, this clause shall be ignored.

13	Annexure-1	1 of 1	O&M Manual	O&M Manual is required for processing any bill which take the quantum of dispatch past 80 % of supply order value	Our scope is limited to supply of material required for fabrication and supervision of erection of storage tanks and hence the documents mentioned in table are not applicable to this package.	As complete Engg. of tank is in bidder scope, Operational and Maintenance recommendations are required in the form of O&M manuals. These manuals shall be in scope of bidder. Also Refer Cl. No. 3.1(t) Pg. 09 of 27 of product standard, Doc. No. PY 51217, O&M Manuals of tanks are to be submitted(both soft and hard form) by bidder.
14	Technical specifications	10 of 27	3.2.8	Painting at sub vendor works are in Bidders scope.	For storage tank we need to supply, plates, structural steel, pipes and fittings for nozzles for which there will be no painting at our works.	As painting(Supply and Coating) is excluded from bidder's scope, painting of plates, structural steel, pipes and fittings for nozzles are excluded from bidder's scope. However painting for instruments, valves shall be as per manufacturer standard.
15	Technical specifications	22 of 27	8.16.2	Commissioning documentation	As our scope is limited to supply and as the product is storage tank, there will be no commissioning documentation.	Not acceptable. Bidder to follow tender specification requirements. Refer Cl. Nos. 3.2.2, 3.2.6, 3.2.7 of Pg 09 of 27 of product standard Doc. No. PY 51217.
16	Sub vendor list	3 of 4	-	Pipe fittings and flanges	As the quantity of pipe fittings and flanges are very less, we request you to accept M/s. Rajendra forge, M/s. Perfect services, M/s. Excel metal industries also.	Sub-Vendor List indicated in the tender specification is customer approved vendor list. Bidder to follow the same.
Additional Clarifications(Dtd: 30.12.15) on Technicals Specificationf or Fire Water Storage Tanks, Doc. No. PY 51217						
1	Annexure-VII : CHECK LIST	Page 4 of 6	S.No. 15	Refer 4.1(d) of PY 51217, wherein all inlet Piping to CW, DM & Intermittent DM Water Storage tanks shall be routed from bottom of tank(Shell Side).	--	Bidder to read this clause as Refer 4.1(d) of PY 51217, wherein all inlet Piping to Fire Water Storage tanks shall be routed from bottom of tank(Shell Side).
2	Product standard : PY51217, Rev no.00	Page 9 of 27	Cl. No. 4.10	The joint efficiency factor of 0.7 to be adopted for design calculation. All the design calculations shall be in accordance with the specified design code.	--	Bidder to read this clause as The joint efficiency factor of 0.85 to be adopted for design calculation. All the design calculations shall be in accordance with the specified design code.