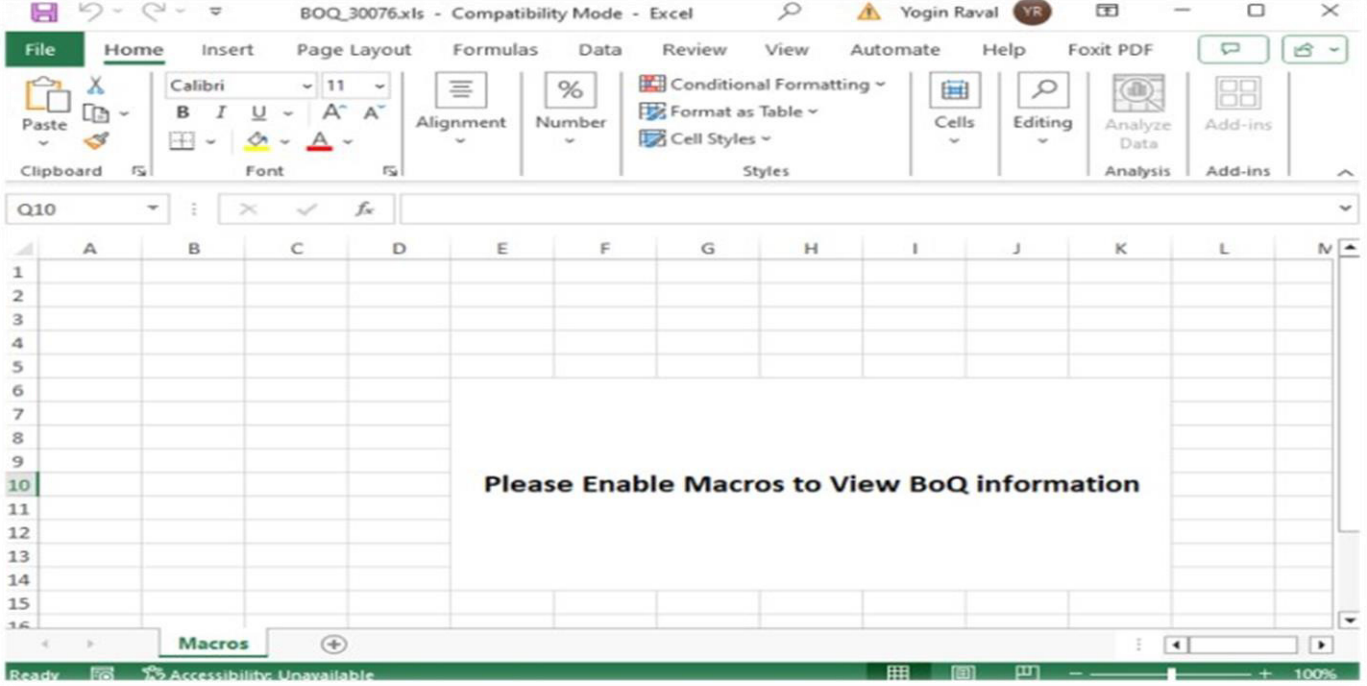


CORRIGENDUM DUE TO PRE-BID CLARIFICATION

Corrigendum No. 01 Dtd 22.09.2023

Sr.	Tender/RFQ - Reference/Requirements Vendor's Pre-bid Queries	BHEL Reply Dated 22.09.2023
1.	 <p>Tender document includes BOQ_30076 (Excel file - enclosed) wherein Macros to be enabled to view BoQ information but it has no such tab/guideline to enable Macros !</p> <p>Please make it available and provide the BOQ by return email so that we can process for bidding.</p>	<p>To enable Macro in excel .PI. refer link : https://support.microsoft.com/en-us/office/enable-or-disable-macros-in-microsoft-365-files-12b036fd-d140-4e74-b45e-16fed1a7e5c6</p>
2.	<p>Tender document states as under on pg. 1/29 !</p> <p>It means each Hose shall be bound with male & female Coupling and additionally 2 no. male & 2 no. female coupling to be supplied ! is this correct ?</p>	<p>All the fire hose pipes are to be fitted with Male & female couplings. In addition, 2 nos of male & 2 nos of female couplings</p>

Generally the hose is not procured like this, it may have male & female coupling 2 no. each as spare with a lot of total Qty. !

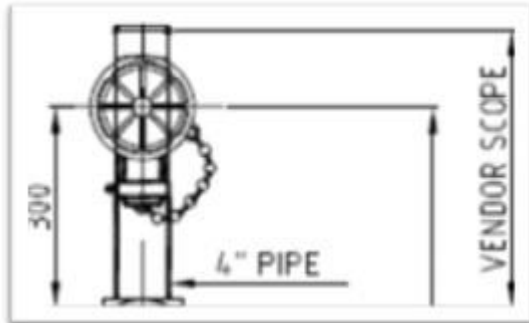
Kindly recheck and confirm exact requirement.

01	PY9751393043	15M FIRE HOSE WITH COUPLING (IS636-A-II) 15M FIRE HOSE WITH COUPLING (IS636-A-II) <u>(2 nos Male Couplings & 2 nos Female Couplings to be supplied as spare along with the Fire hose requirement).</u>
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are to be supplied as spares with the total lot of fire hoses

3. Matl. Item code : 190508120000 DOUBLE HEADED FIRE HYDRANT VALVE & POST.

- Tender document is given with two Datasheets vide pg. no. 25 & 28 but not clarified whether the item required is to be with or without Pumper connection, please confirm.
- If required, please give details of Pumper Connection and Material of Cap (SS304/SS316).
- Please confirm required Height and Inlet size of Stand Post (details given in two Datasheets are ambiguous)
Is that 300 mm & 4" pipe/inlet as shown on pg. 27/29 ?



- Given both the Datasheet states "PMS A29A" to refer but the same is missing, please provide by return email.
- Please confirm Material Stainless Steel as per IS3444 gr. 1 (SS304) or gr. 4 (SS316).

Inlet water pressure is 8 Bar. All the required accessories are to withstand the pressure.

- Requirement is without any pumper connection. Inlet of the stand post is to be connected to a 8"x4" reducer (reducer in BHEL Scope). Please ensure that the stand post inlet is 4" and suitable for reducer outlet.**
- Not required.**
- 600mm Height of Stand Post. Refer Point C of data sheet 6.2.**
- Attached.**
- All stainless Materials to be SS304.**
- Black Cap with chain is for closing the valves**

- f) Datasheet vide sr. no. 1 states 'Accessories : Blank Cap with Chain', kindly note that Hydrant Valve shall have these Cap & Chain as complete assembly hence these two are not required additionally as an accessory again, please confirm our understanding is correct else please advise.
- g) Refer Note 2 of the Datasheet : it is stated "Hydrant valves matching flanges...", kindly note that Hydrant Valve shall be supplied duly fitted with Stand Post hence matching flange is not required
- h) However if required, matching flange may for the inlet of Stand Post, so please check and confirm exact requirement.
- i) Note 4 reg. Orifice Plat is deleted in given Datasheet, please reconfirm Orifice Plates are not required.
- j) Refer Note 1 given vide Datasheet pg. 28/29 and confirm/advise requirement of INTERNAL GLASS FLAKED EPOXY LINING.

- during non-operation. Required.**
- g) Requirement is that the outlet of the Hydrant post to be matched with Hydrant Valve using a 3" flange. Hydrant Valves shall be replaceable during maintenance.**
- h) Inlet Flange of Hydrant Post to be 4" as clarified above.**
- i) The Fire hoses in the subject enquiry should be suitable for assembly with the hydrant valves. Any fittings or connections for the assembly is in vendor scope.**
- j) Required.**

Client : CPCL	Dept./Sect. : 16/63
Project : CDU-VDU-III REVAMP	
Location : CHENNAI	Pipe Class : A29A Sheet 1 of 6

PIPE CLASS : **A29A**
RATING : 150
BASE MATERIAL : CARBON STEEL
CORROSION ALLOWANCE : 4.5 MM
SPECIAL REQUIREMENT : AXENS-3 (HIC)

TEMPERATURE (Deg. C) AND PRESSURE (Kg/Sq. cm g) RATINGS

TEMP	-29	38	93	149	204	260	316	343	371
PRESS	20.03	20.03	18.28	16.17	14.06	11.95	9.84	8.78	7.73

SERVICE

NON-NACE CORROSIVE PROCESS SERVICES - FLAMMABLE / NON FLAMMABLE & NON LETHAL, CORROSIVE SOUR WATER, SOUR GAS

NOTES

- 7 FOR RESTRICTION ON USE OF BALL, PLUG & BUTTERFLY VALVES, REFER GENERAL NOTES.
- 32 CORROSION ALLOWANCE HAS BEEN ADJUSTED TO SELECT OPTIMUM SCH. REFER GENERAL NOTES TO PMS.
- 34 MAXIMUM HARDNESS IN WELD JOINTS SHALL BE LIMITED TO 200 BHN.
- 192 NDT REQUIREMENT AS PER JOB STANDARD 6860-6-44-0016
- 193 FOR (SOUR+HIC) SERVICE REQUIREMENT REFER 6860-62-43-SP04
- 194 ALL WELD JOINTS SHALL BE 100% RADIOGRAPHED & WET FLOURESENT MAGNETIC PARTICAL TESTED

SPECIAL NOTES

ITEM	SIZE	DESCRIPTION	A.CODE
MAINTAINENCE JOINTS	ALL	FLANGED, TO BE KEPT MINIMUM	
PIPE JOINTS	1.5" & BELOW	SW COUPLING	
	2.0" & ABOVE	BUTTWELDED	
DRAINS	ON LINES <= 1.5"	REFER EILSTD 7-44-0350, DF3	
	ON LINES >= 2.0"	AS PER P&ID OR 0.75". REFER EIL STD. 7-44-0351, D4	
VENTS	ON LINES <= 1.5"	REFER EIL STD. 7-44-0350, VF3	
	ON LINES >= 2.0"	AS PER P&ID OR 0.75". REFER EIL STD 7-44-0351, V4	
TEMP.CONN	1.5"	FLANGED. REFER EIL STD 7-44-0353 (CLASS 300)	
PRESS.CONN	0.75"	SW NIPPLE WITH VALVE TO SPEC AS PER EIL STD 7-44-0354	

Client : CPCL	Dept./Sect. : 16/63
Project : CDU-VDU-III REVAMP	
Location : CHENNAI	Pipe Class : A29A Sheet 3 of 6

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Pipe Group									
PIP	PIPE	0.50	0.50	XXS	B-36.10	ASTM A 106 GR.B	PE, SEAMLESS	PI21977ZR	
PIP	PIPE	0.75	1.00	S160	B-36.10	ASTM A 106 GR.B	PE, SEAMLESS	PI21977ZR	
PIP	PIPE	1.50	1.50	XS	B-36.10	ASTM A 106 GR.B	PE, SEAMLESS	PI21977ZR	32
PIP	PIPE	2.00	2.00	XS	B-36.10	ASTM A 106 GR.B	BE, SEAMLESS	PI21917ZR	32
PIP	PIPE	3.00	4.00	STD	B-36.10	ASTM A 106 GR.B	BE, SEAMLESS	PI21917ZR	32
PIP	PIPE	6.00	14.00	STD	B-36.10	ASTM A 106 GR.B	BE, SEAMLESS	PI21917ZR	
PIP	PIPE	16.00	20.00	STD	B-36.10	ASTM A 672 GR.B60 CL.12	BE, E.FS.W	PI2A813ZR	
PIP	PIPE	24.00	24.00	XS	B-36.10	ASTM A 672 GR.B60 CL.12	BE, E.FS.W	PI2A813ZR	
NIP	NIPPLE	0.50	0.50	M	B-36.10	ASTM A 106 GR.B	PBE, SEAMLESS	PN21967ZR	
NIP	NIPPLE	0.75	1.00	M	B-36.10	ASTM A 106 GR.B	PBE, SEAMLESS	PN21967ZR	
NIP	NIPPLE	1.50	1.50	M	B-36.10	ASTM A 106 GR.B	PBE, SEAMLESS	PN21967ZR	32
Flange Group									
FLG	FLNG.WN	0.50	24.00	M	B-16.5	ASTM A 105	150, RF/125AARH	FWC0127ZR	
FLB	FLNG.BLIND	0.50	24.00		B-16.5	ASTM A 105	150, RF/125AARH	FBC0127ZR	
FEF	FLNG.FIG.8	0.50	8.00		ASME-B16.48	ASTM A 105	150, FF/125AARH	FGK0121ZR	
FEF	SPCR&BLND	10.00	24.00		ASME-B16.48	ASTM A 105	150, FF/125AARH	FCK0121ZR	
Fitting Group									
ELB90	ELBOW.90	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WA602D4ZR	
ELB90	ELBOW.90	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WA602D3ZR	
ELB90	ELBOW.90	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WA602D2ZR	
ELB90	ELBOW.90	2.00	14.00	M	B-16.9	ASTM A 234 GR.WPB	BW, 1.5D	WAG684Z1R	
ELB90	ELBOW.90	16.00	24.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW, 1.5D	WAG754Z1R	
ELB45	ELBOW.45	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WB602D4ZR	
ELB45	ELBOW.45	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WB602D3ZR	

Client : CPCL	Dept./Sect. : 16/63
Project : CDU-VDU-III REVAMP	
Location : CHENNAI	Pipe Class : A29A Sheet 4 of 6

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Fitting Group									
ELB45	ELBOW.45	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WB602D2ZR	
ELB45	ELBOW.45	2.00	14.00	M	B-16.9	ASTM A 234 GR.WPB	BW, 1.5D	WBG684Z1R	
ELB45	ELBOW.45	16.00	24.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW, 1.5D	WBG754Z1R	
TEQ	T.EQUAL	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WE602D4ZR	
TEQ	T.EQUAL	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WE602D3ZR	
TEQ	T.EQUAL	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WE602D2ZR	
TEQ	T.EQUAL	2.00	14.00	M	B-16.9	ASTM A 234 GR.WPB	BW	WEG684ZZR	
TEQ	T.EQUAL	16.00	24.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW	WEG754ZZR	
TRED	T.RED	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WR602D4ZR	
TRED	T.RED	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WR602D3ZR	
TRED	T.RED	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WR602D2ZR	
TRED	T.RED	2.00	14.00	M, M	B-16.9	ASTM A 234 GR.WPB	BW	WRG684ZZR	
TRED	T.RED	16.00	24.00	M, M	B-16.9	ASTM A 234 GR.WPB-W	BW	WRG754ZZR	
REDC	REDUC.CONC	2.00	14.00	M, M	B-16.9	ASTM A 234 GR.WPB	BW	WUG684ZZR	
REDC	REDUC.CONC	16.00	24.00	M, M	B-16.9	ASTM A 234 GR.WPB-W	BW	WUG754ZZR	
REDE	REDUC.ECC	2.00	14.00	M, M	B-16.9	ASTM A 234 GR.WPB	BW	WVG684ZZR	
REDE	REDUC.ECC	16.00	24.00	M, M	B-16.9	ASTM A 234 GR.WPB-W	BW	WVG754ZZR	
SWGC	SWAGE.CONC	0.50	3.00	M, M	BS-3799	ASTM A 105	PBE	WNH026ZZR	
SWGE	SWAGE.ECC	0.50	3.00	M, M	BS-3799	ASTM A 105	PBE	WPH026ZZR	
CAP	CAP	2.00	24.00	M	B-16.9	ASTM A 234 GR.WPB	BW	WFG684ZZR	
CPLF	CPLNG.FULL	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WJ602D4ZR	
CPLF	CPLNG.FULL	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WJ602D3ZR	
CPLF	CPLNG.FULL	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WJ602D2ZR	

Package : IPMCS

Report No. : 50

A29A

Client : CPCL	Dept./Sect. : 16/63
Project : CDU-VDU-III REVAMP	
Location : CHENNAI	Pipe Class : A29A Sheet 5 of 6

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Fitting Group									
CPLH	CPLNG.HALF	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WK602D4ZR	
CPLH	CPLNG.HALF	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WK602D3ZR	
CPLH	CPLNG.HALF	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WK602D2ZR	
CPLL	CPLNG.LH	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WL602D4ZR	
CPLL	CPLNG.LH	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WL602D3ZR	
CPLL	CPLNG.LH	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WL602D2ZR	
CPLR	CPLNG.RED	0.50	0.50		B-16.11	ASTM A 105	SW, 9000	WM602D4ZR	
CPLR	CPLNG.RED	0.75	1.00		B-16.11	ASTM A 105	SW, 6000	WM602D3ZR	
CPLR	CPLNG.RED	1.50	1.50		B-16.11	ASTM A 105	SW, 3000	WM602D2ZR	
Valves Group									
GAV	VLV.GATE	0.50	1.50		API-602	BODY-ASTM A 105,TRIM-SS 316+STELLITE	SW, 800, 6000, B-16.11, SHT NO.- 51094	51094ZZZR	
GLV	VLV.GLOBE	0.50	1.50		BS-5352	BODY-ASTM A 105,TRIM-SS 316L+STELLITE	SW, 800, 6000, B-16.11, SHT NO.- 52094	52094ZZZR	
CHV	VLV.CHECK	0.50	1.50		BS-5352	BODY-ASTM A 105,TRIM-SS 316L+STELLITE	SW, 800, 6000, B-16.11, SHT NO.- 53094	53094ZZZR	
Bolt Group									
BOS	BOLT.STUD	0.50	24.00		B-18.2	BOLT:A193 GR.B7M, NUT:A194 GR.2HM		BS43405ZR	
Gasket Group									
GAS	GASKET	0.50	24.00		B-16.20-ANSI B16.5	SP.WND SS316L+GRAFIL	SPIRAL, 150	GK64972ZR	
Trap/Strainer Group									
TSR	STRNR.TEMP	1.50	24.00		EIL'STD	B:A516GR.70;INT:S S316L	CONETYPE, 150,FF/125AARH	ST16931ZR	
PSR	STRNR.PERM	0.50	1.50		MNF'STD	B:A105;INT:SS304	SW, Y-TYPE, 800	SP303D51R	
PSR	STRNR.PERM	0.50	1.50		MNF'STD	B:A105;INT:SS316L	SW, Y-TYPE, 800	SP305D51R	
PSR	STRNR.PERM	2.00	14.00	M	EIL'STD	B:A234GR.WPB;IN T:SS316L	BW, T-TYPE	SP14044ZR	
PSR	STRNR.PERM	2.00	14.00	M	EIL'STD	B:A234GR.WPB;IN T:SS304	BW, T-TYPE	SP13344ZR	

Package : IPMCS

Report No. : 50

A29A

Client : CPCL	Dept./Sect. : 16/63
Project : CDU-VDU-III REVAMP	
Location : CHENNAI	Pipe Class : A29A Sheet 6 of 6

Note :(The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Trap/Strainer Group									
PSR	STRNR.PERM	16.00	24.00	M	EIL'STD	B:A234GR.WPBW;I NT:SS316L	BW, T-TYPE	SP13844ZR	
PSR	STRNR.PERM	16.00	24.00	M	EIL'STD	B:A234GR.WPBW;I NT:SS304	BW, T-TYPE	SP13644ZR	