

Indent ref. FPS/CIW/KAP/15-6/01 (amendment - 1 dt. 06/06/15)

Annexure-A-Revised

Sub:BOQ for accessories of Fire Fighting system for BHEL-CFP, Rudrapur

S.no.	Item description	SUPPLY				ERECTION	
		Unit	Qty	RATES	AMOUNT	RATES	AMOUNT
I	Supply & Installation(S&I) of 'Accessories of Fire Fighting System' comprising following:	-	-	-	-		
1	I. Supply, installation, testing and commissioning of : (a) Diesel Engine driven pump set mounted on common base frame. (b) Pump should be of horizontal centrifugal end suction type of capacity 2280 LPM at 7 Kg./Cm ² . Make of pump: Kirlosker/Shakti/ Mather+plate /KSB (c) Diesel engine should be of suitable capacity for driving the pump. Make of diesel engine: Kirlosker / Cummins / Crompton Greaves / Mahindra / Ashok Leyland. (d) One set of Radiator, water cooling piping, coupling guard and other standard accessories, exhaust Pipe with necessary flanges & fittings, fasteners etc., Concrete foundation & its bolts, diesel fuel tank(capacity min 120 Ltrs.) with stand and gauge. (e) Electric Panel for Diesel engine complete with isolator switch, voltmeter, ammeter, manual/auto mode switch, indicating lamps etc., batteries(Exide/Amar raja/luminous/pulselite make) with all interconnecting leads/cables, connection, terminator, stand & battery charger.	SET	1				
2	Pressure Switch with socket, nipple, ball valve and 'U' tube including all accessories(for disel pump).Make:-Infoss/AE	Nos	1				
3	Pressure Gauge 100 mm dia 0-10 kg/cm ² with socket ,nipple ball valve and u tube (For for disel pump) including all accessories.Make: H.Guru/AE	Nos	1				
4	Non Return Valve(double plate) (PN 1.6) of following sizes complete with matching flanges ,rubber insertion nut ,bolt and washer etc. including all accesories.Make:Kartar/ZOLOTO/CASTLE	Nos					
	(a) 150mm dia. For disel & hydrant /main pump	Nos	2				
	(b) 50mm dia.	Nos	1				
	(d) 100 mm for fire brigade inlet	Nos	1				
5	Gate valve complete with all accesories like matching flanges, rubber insertion, nuts, bolts, washers, etc. Make :-Kartar/ZOLOTO/CASTLE	Nos					
	(a) 150 mm dia.	Nos	4				
	(b) 80 mm dia.	Nos	1				
	(c) 50mm dia.	Nos.	1				
	(d) 100 mm	Nos.	1				
6	Ball valve(25NB) complete with all fittings. Make :-Kartar/ZOLOTO/CASTLE	Nos.	2				
7	Single Way Hydrant Valve, 63 mm dia straight outlet with 75mm NB flanged inlet brass spindle,63 mm female oblique out let complete including all accesories As per: IS 5290.Make :-New Age/new tech/omex/guard.	Nos.	9				
8	Non-perforating flexible(Primer) fire hose pipe with circularly woven jacket of 100% polyester yarn lined with black synthetic EDPM rubber resistant to heat, abrasion and fungus having bust pressure 38 Kg/cm ² , ISI marked, conforming to IS:636:88, Type -A With ISI Mark Male & Female Coupling of IS: 903 of 15 Meter Length binding with copper rivet and 1.5mm copper wire with all accesories. Make:- New Age/new tech/guard/Omex	Nos.	18				
9	Weather proof M.S. Hose Box out door type, suitable for accommodating yard haydrant of 18 SWG MS sheet with glazed opening door, painting on coat primer and two coats of PO red paint for housing 2 nos. canvas hose pipes,& branch pipe the word etc to be painted on each box .including platform as Required (App.0.75m x0.25m) with all accesories. Make:- New Age/New Tech/Guard/Omex/ geetech.	Nos.	9				
10	Nozzle of gun Metal 63 mm dia short branch pipe with 20 mm dia nozzle with 63 mm instantaneous copling ISI Marked with all accesories (ISI:903) Make: New Age	Nos.	9				
A	Total-Σ (I)						
II	Testing, prove out/commissioning, training & Warranty	-	-	-			
1	Testing of complete system & proveout of all its intended functions & commissioning after installation						
2	Providing O&M manual(03 sets) each for Fire Hydrant system . Manual should include mention of recommended spares for trouble free operation for a period of 05 years	01 Set	Lumpsum				
3	O&M training to BHEL personnel						
4	Warranty: 12 months free of cost replacement/repair from the date of taking over of system by BHEL against malfunction of complete system or its components/parts due to faulty material or workmanship						
B	Total-Σ (II)						
C	Service Tax(Pl. specify)	-	-				
D	VAT Tax(Pl. Specify)	-	-				
E	Grand Total Offer(A+B+C+D)						

Signature
In. Eng (Civil)