

BRIEF SPECIFICATIONS : FIELD WATER SUPPLY SCHEME

1. **Scope of work:** PUF Insulated (55mm thick) water tank 1000 Ltrs with GI flange for connection with nipple and gasket. Make "Sintex/Patton/Polycon

(a) Inner tanks or three layer made of HDPE/LDPE rational moulded vertical with closed top of IS Specification and ISI Marked

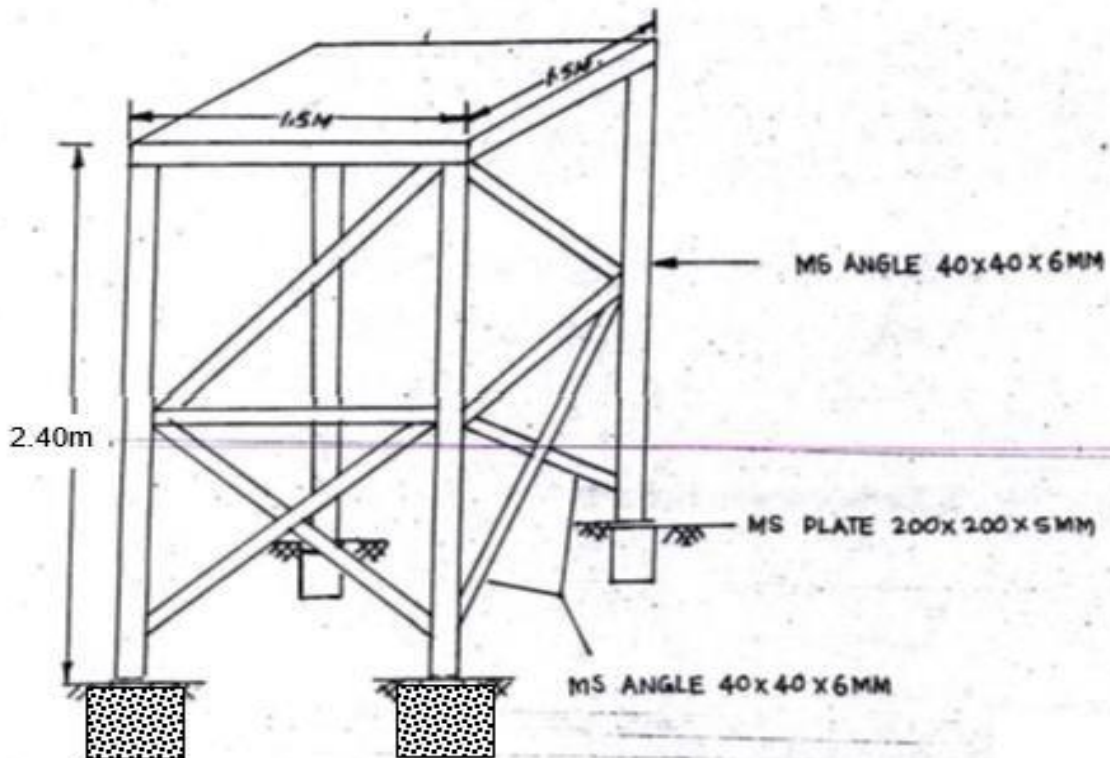
(b) The insulation pipe is suitable for dia of PP-R pipes of 50mm thick insulation self seal, nitrile rubber foam pipe insulation and it helps to reduce heat loss or gain in types of pipe network.

(c) 02 x PPR Tank Connector compatible with 25 mm PPR Pipe to be provided with each tank)

2. **Water Supply Pipes.** All water supply pipe line, fitting, joints and fixtures shall be of PPR pipe

with all connected accessories to be insulated with insulation form pipes of respective dia of pipe and 32mm thick of approved make ISI Marked. (Ref water supply store of Appx B).

3. **Staging of water tank:** Water staging platform made of MS Angle of size 40x40x6 mm. The overall size of the staging shall be 2.4M above Ground Level with the water tank platform of size 1.5 x 1.5M. The staging shall be embedded into the ground with the help of MS base plates of size 200x200x5 mm welded into the bottom of the four legs of the staging. MS work shall conform to IS-800. All as per drg.



All measurements are in mm

4. **Pump Set.** Diesel water pump set with tools kit will be provided as per following specification.

a. **5HP Pump**

- (i) Power : 5HP
- (ii) Engine Type : Air cooled 4 stroke Petrol engine 4KWatt
- (iii) Fuel Tank Capacity : 3.5 Ltrs
- (iv) Discharge(LMP) : 520 LMP.

b. **2HP Pump**

- (i) Power : 2HP
- (ii) Engine Type : Air cooled 4 stroke petrol engine 1.5KWatt
- (iii) Fuel Tank Capacity : 3.5 Ltrs
- (iv) Discharge(LMP) : 520 LMP.

5. **Makes of Items/ Relevant IS.** The following make of items conforming to relevant IS with latest amendments will be incorporated in the work. Wherever the make or relevant IS code is not specified, it will be minimum ISI approved product incorporating the latest relevant IS code applicable. All Items should be of brand as given in store list.

Ser No	Item	Relevant IS	Makes
(a)	Steel Sections for Structural Use	IS-4923-1997	SAIL/TATA/ Jindal/ RINL
(b)	MS items/ accessories	Conform to relevant IS	SAIL/ TATA/ Jindal/ RINL
(c)	PUF insulated panels	IS-12436-1988	Sintex/ Lloyd/ Kingspan Jindal/ Tata Adv Comp/ Mahindra Comp/ Modern Prefab/ BNAL/ Ace Pre Fabs/ Manifold/ Kirby/ Synerey/ Modern/ ACME/ Jindal Mectec/ IFPL/ SG/ Cactus Profile Pvt Ltd/ Unifix/ Prestar
(d)	<u>Nuts & Bolts for Steel Structures, J Bolts, Washers</u>	IS-6639-1972, IS-730- 1978, IS-2016- 1967	ISI Marked
(e)	PUF Water Tank, Soakage Pit & Septic Tanks	Conform to relevant IS	Patton/Polycone/Sintex/S GIPL
(f)	All PPR Items, PVC Items and Sanitary Items	Conform to relevant IS	Vectus/SFMC/Paras/ Finolex/ Supreme/Prince/Finolex/ Nirali/Anjali/Diamond/ Jayna/ Parko/Nova /Zolota/Cera

STORE LIST OF FIELD WATER SUPPLY SCHEME

Ser No	Brief Specifications	A/U	Qty
1	05 HP High head Diesel water pump air cooled 4 stroke air cooled, displacement of 296CC, recoil engine starting system with tubular frame and the material type is aluminium and it is recoil start type all as per list attached part - IV of TS.	Nos	2
2	Pump set power 02 HP capacity of fuel tank 1.50 ltr type of fuel petrol engine pump (Max) 3600 RPM speed rated power 1.50W. Aluminium zinc alloy crackcase. The pump is fitted with base plate. The pump shall be coupled to a suitable engine of following specifications:- (i) Engine 02 HP (Max) 3600 RPM with self start. The pump shall be supplied with foot valve & suction poepe and accessories.	Nos	2
3	3Layer PP-R Pipes, ISI Marked 75mm OD PN-16 Pipe.	RM	400
4	3Layer PP-R Pipes, ISI Marked 40mm OD PN-16 Pipe.	RM	600
5	3Layer PP-R Pipes, ISI Marked 25mm OD PN-16 Pipe.	RM	1400
6	75mm PP-R Socket	Nos	120
7	75 mm PP-R TEE	Nos	30
8	40mm PP-R Socket	Nos	200
9	40mm PP-R Flange connection with Nipple and gasket	Nos	60
10	40 mm PP-R TEE	Nos	40
11	40mm external thread Brass gate valve	Nos	30
12	25mm PP-R Socket	Nos	480
13	25mm PP-R Union	Nos	160
14	25mm PP-R Elbow	Nos	100
15	25mm PP-R TEE	Nos	60
16	25mm external thread Brass gate valve	Nos	44
17	Teflon tape	Nos	70
18	Silcone Sealant	Kg	50
19	40mm male thread adapter	Nos	40
20	40mmx25mm Reducer / Socket	Nos	60
21	75mmx40mm Reducer / Socket	Nos	40
22	Insulation foam pipes of size 32x42mm For 40 mm dia PP-R pipes	Rm	600
23	Insulation foam pipes of size 32x28mm For 25 mm dia PP-R pipes	Rm	1400
24	PPR welding Machine with tool box	Nos	4
25	PPR Cutter	Nos	4
26	Insulation foam pipes of size 32x76mm For 75 mm dia PP-R pipes	Rm	400
27	PUF Insulated (55mm thick) water tank 1000 Ltrs with GI flange for connection with nipple and gasket. (a) Inner tanks or three layer made of HDPE/LDPE rational moulded vertical with closed top of IS Specification and ISI Markedl (b) Insulation : PUF insulation with polyurethene from 50 to 75mm thick with insulation K value 0.019 Kg/cum-Hrs degree centigrade of density minimum 42 Kg/cum.	Nos	12

	(c) Outer Protection layer for PUF with FRP 3mm layer or as specified by manufactures. (i) Sedimentation tank - 01 No (ii) Chlorination tank - 01 No (iii) Storage tank - 04 No		
28	Water staging platform made of MS Angle of size 40x40x6 mm. The overall size of the staging shall be 2.4M above Ground Level with the water tank platform of size 1.5 x 1.5M. The staging shall be embedded into the ground with the help of MS base plates of size 200x200x5 mm welded into the bottom of the four legs of the staging. MS work shall conform to IS-800. All as per drg.	Nos	12
29	Cement PCC /OPC 53 grade in poly bags of 50 kg each (Delivery at Stage III) Make : ACC/Ambuja/India cement/ Birla/Ultra Tech (Delivery at Stage III)	Bags	20
30	Sand Coarse conforming to IS-383 (Delivery at Stage III)	Cum	3
31	Stone Aggregate Coarse 20mm conforming to IS-383 (Delivery at Stage III)	Cum	5