

CONSTRUCTION SCHEDULE - GANTT CHART

Name of work - J.M.- Phase II- WSS to Karassery, Kodyiyathur, Koodaranhi, Thiruvambadi and Omassery Grama Panchayaths in Kozhikode District: Providing Functional Household Tap Connections (FHTCs) to Thiruvambadi Grama Panchayath by Constructing new RCC OHSR of capacity 12 LL and Distribution System.

Tender No. SE/PHC/KD/20/2022-23

Name of Tenderer

SL NO	DESCRIPTION OF ITEM	COMPLETION PERIOD- 2022-2023															
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep			
1	Supply of pipes & specials																
3	Construction Of 12LL GLSR																
4	Laying jointing of pipes & specials																
5	Supply & fixing of valves ,flow meter																
6	Providing FHTCs and Geo- lagging																
7	Road restoration																
8	Trial run & commissioning																

 Original completion time



K. KHALID
Govt. Contractor
Mavoor - 673661

CONSTRUCTION SCHEDULE - GANTT CHART

Name of work : JJM- Phase II- WSS to Karassery, Kodyathur, Koodaranhi, Thiruvambadi and Omassery Grama Panchayaths in Kozhikode District: Providing Functional Household Tap Connections (FHTCs) to Thiruvambadi Grama Panchayath by Constructing new RCC OHSR of capacity 12 LL and Distribution System.

Tender No: SE/PHC/KKD/20/2022-23

Name of Tenderer:

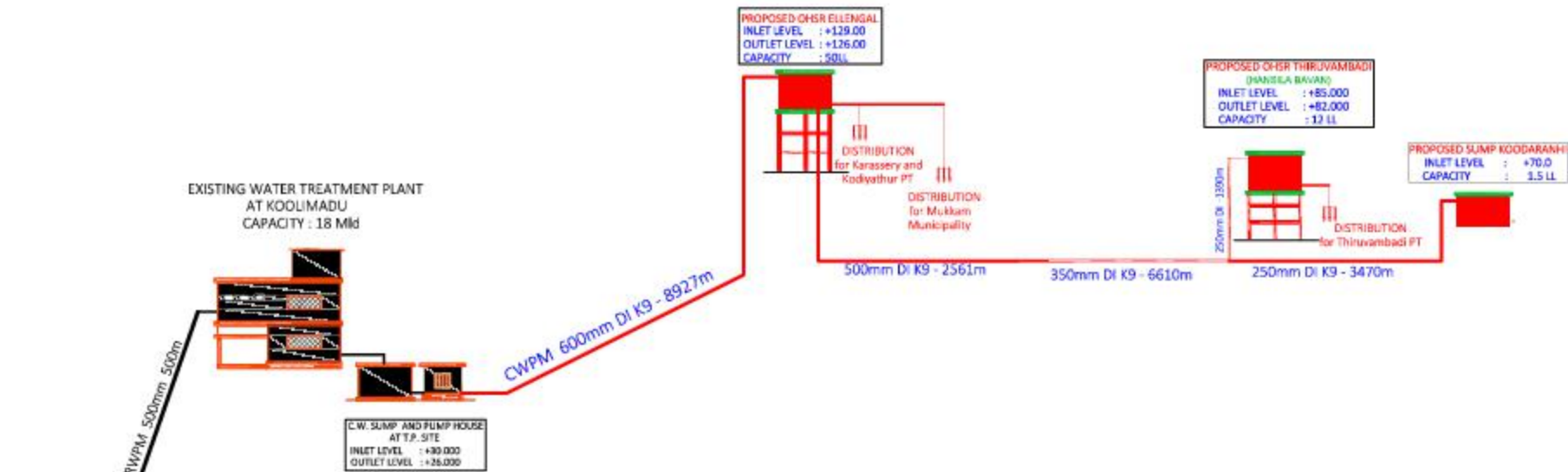
SL NO	DESCRIPTION OF ITEM	COMPLETION PERIOD- 2022-2023												
		MONTH												
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
1	Supply of pipes & specials													
3	Construcion Of 12LL GLSR													
4	Laying ,jointing of pipes & specials													
5	Supply & fixing of valves ,flow meter													
6	Providing FHTCs and Geo- tagging													
7	Road restoration													
8	Trial run & commissioning													



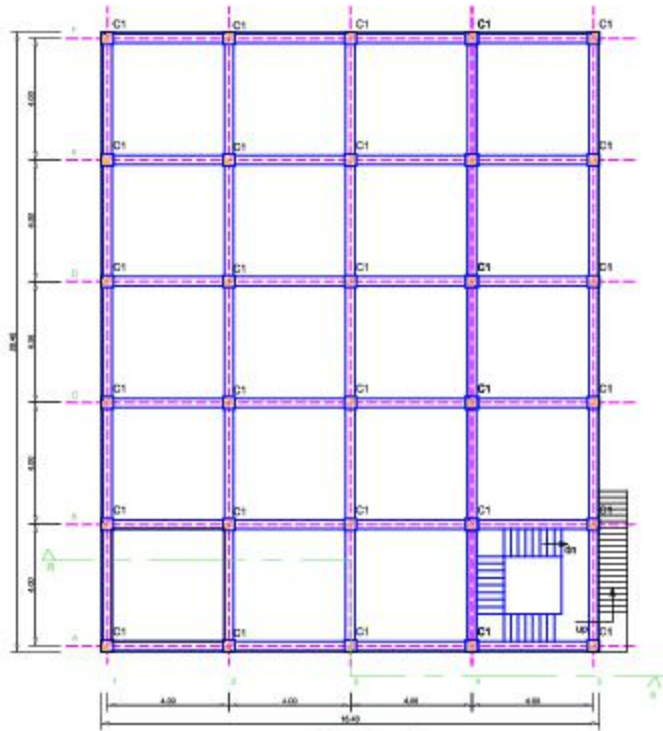
Original completion time


O. A. J. M. J. EED
 Govt. Contractor
 Cheruparambu House
 Nedyiruppu P.O.-673 638
 Malappuram Dt
 Ph: 9447184469

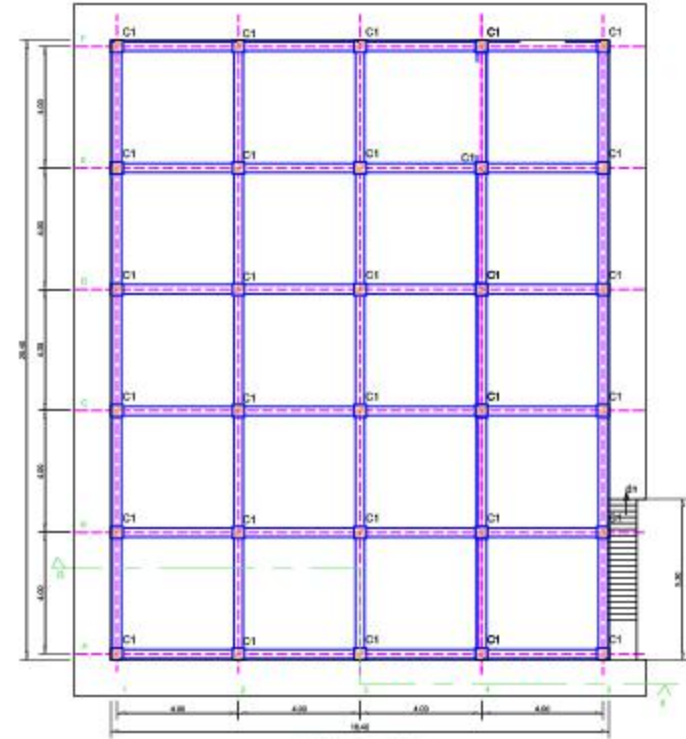
JJM PHASE - II WSS TO KARASSERY, KODIYATHUR, KOODARANJI AND THIRUVAMBADI PANCHAYATH INKOZHICODE DISTRICT




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PLAN AT (104.8)
Scale - 1:100



PLAN AT (105.92)
Scale - 1:100

NOTE

- All dimensions are in metres unless otherwise specified.
- Figured dimensions are to be measured over.
- Use RCC mix of M20 for all RCC components of the Reservoir.
- Use steel of fy: 415 N/mm².
- Lap lengths provided as per relevant IS.
- An SBC of 25kN/m² has been adopted as per soil investigation report.
- Reinforcement arrangements for slab, in the overflows, main body and air vent etc as per NIT - 2 should be provided.
- Reinforcement arrangements for M/S Jackets, handrails etc. may be provided as per NIT.
- Clear cover to the reinforcement should be provided as follows:
Water face of abutments and side wall - 50mm
Columns - 40mm
Footings - 50mm
All other faces - 30mm
- The assumed sections of footings shall be filled with PCC 1:4:8.
- The bar bending details of the slabs are as follows:



TYPICAL BEAM SECTION

- Legend:**
- Ø 12 @ 200 indicates Ø 12 mm (or) TMT steel bars @ 200 mm c/c.
 - 2 #30T indicates 2 Numbers 30 mm dia bar.
 - (B) indicates Bottom Layer.
 - (T) indicates Top layer.
- Slab rise shall be suitably placed at site the access to four side level roadway.
 - Unsupported length of columns above GL in slopping portion shall be 1/20th to 4/10.

LEGENDS		
C1	COLUMN	400mm x 400 mm
C2	COLUMN	300mm x 300 mm

KERALA WATER AUTHORITY

PROJECT: JIM PHASE B 1955 to Ulfery, Moolad and Adjuring 15 Panchayath in Kottayam District

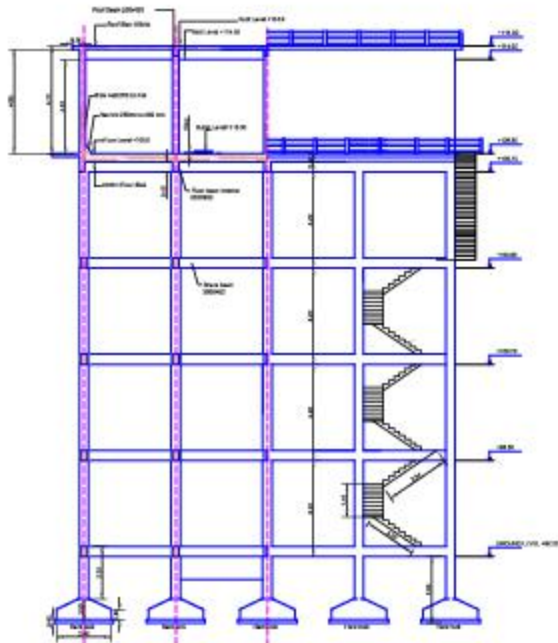
WORK: Design, Construction and Commissioning of 12LL Capacity Over Head Service Reservoir at Thiruvambadi

COMPONENT: DESIGN OF 12 LL CAPACITY OHSR FOR THIRUVAMBADI GRAMA PANCHAYATH

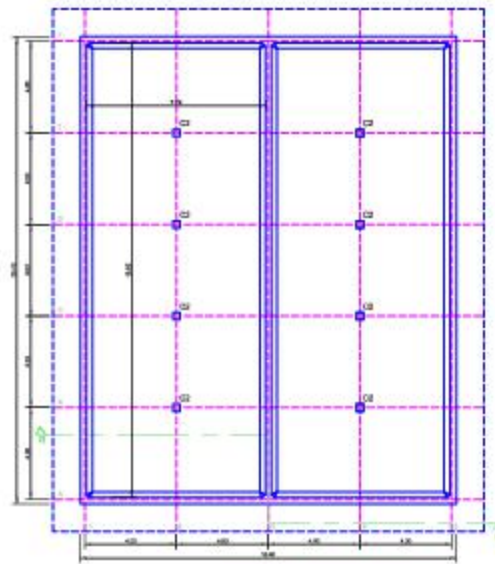
Scale as shown Sheet no: 1/2

Drawing no: _____
Designer: _____
Checker: _____

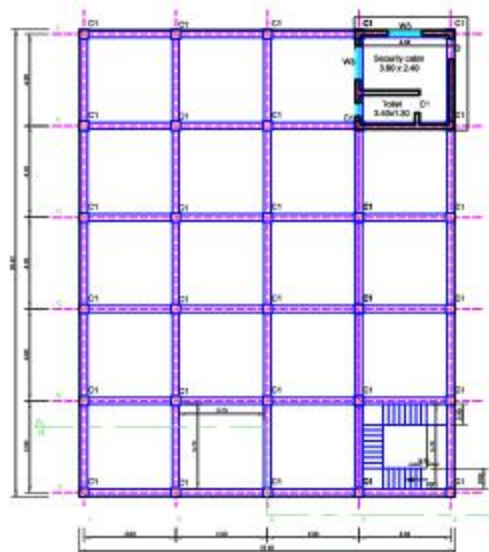
K.K.
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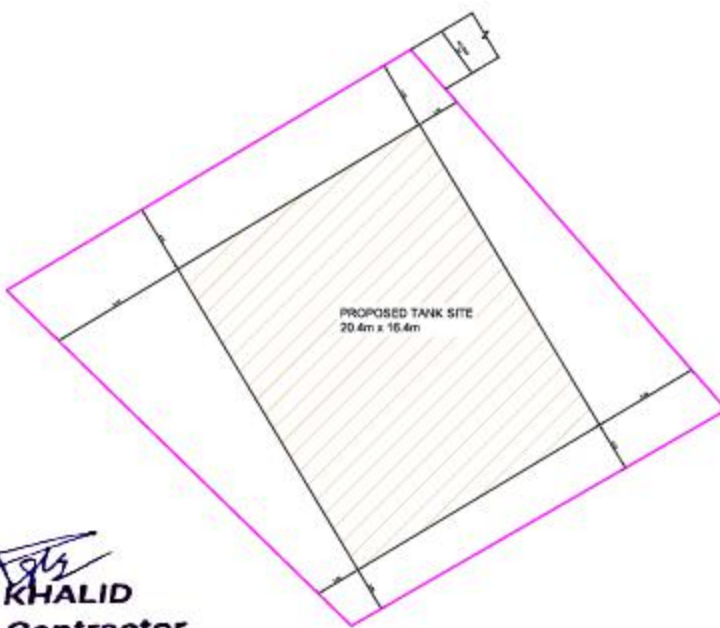
HALF SECTIONAL ELEVATION B-B @ LEVEL IN PLAN
Scale - 1:200



PLAN AT FLOOR SLAB LEVEL (R-25)
Scale - 1:200



PLAN AT PLINTH LEVEL (R-00)
Scale - 1:200



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NOTE

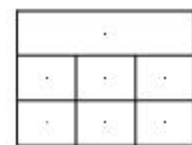
- All dimensions are in metres unless otherwise specified.
- Figured dimensions specially measured ones.
- Use RCC mix of M20 for all RCC components of the Reservoir.
- Use steel of fy: 415 N/mm².
- Lap lengths provided as per relevant IS.
- An SBC of 25kN/m² has been adopted as per soil investigation report.
- Seismic arrangements for slab, column, over door, main door and air vent etc as per IS 1893 should be provided.
- Seismic arrangements for M/S Jockey, handrails etc may be provided as per IS 1893.
- Clear cover to the reinforcement should be provided as follows:
Water face of abutment
and side wall - 50mm
Column - 40mm
Footing - 50mm
All other faces - 30mm
- The excavated portions of footings shall be filled with PCC 1:4:8.



TYPICAL BEAM SECTION

- Legend**
- Ø 12 @ 200 indicates 8 nos. 12Ø TMT steel bars @ 200 mm c/c.
 - 2 Ø 12 @ 200 indicates 2 nos. 12Ø TMT steel bars @ 200 mm c/c.
 - (B) indicates Bottom Layer.
 - (T) indicates Top layer.

- Slab rise shall be suitably placed at site the access to four side level roadway.
- Unsupported length of columns above GL in sloping portion shall be 1/10th to 1/8th.



KERALA WATER AUTHORITY

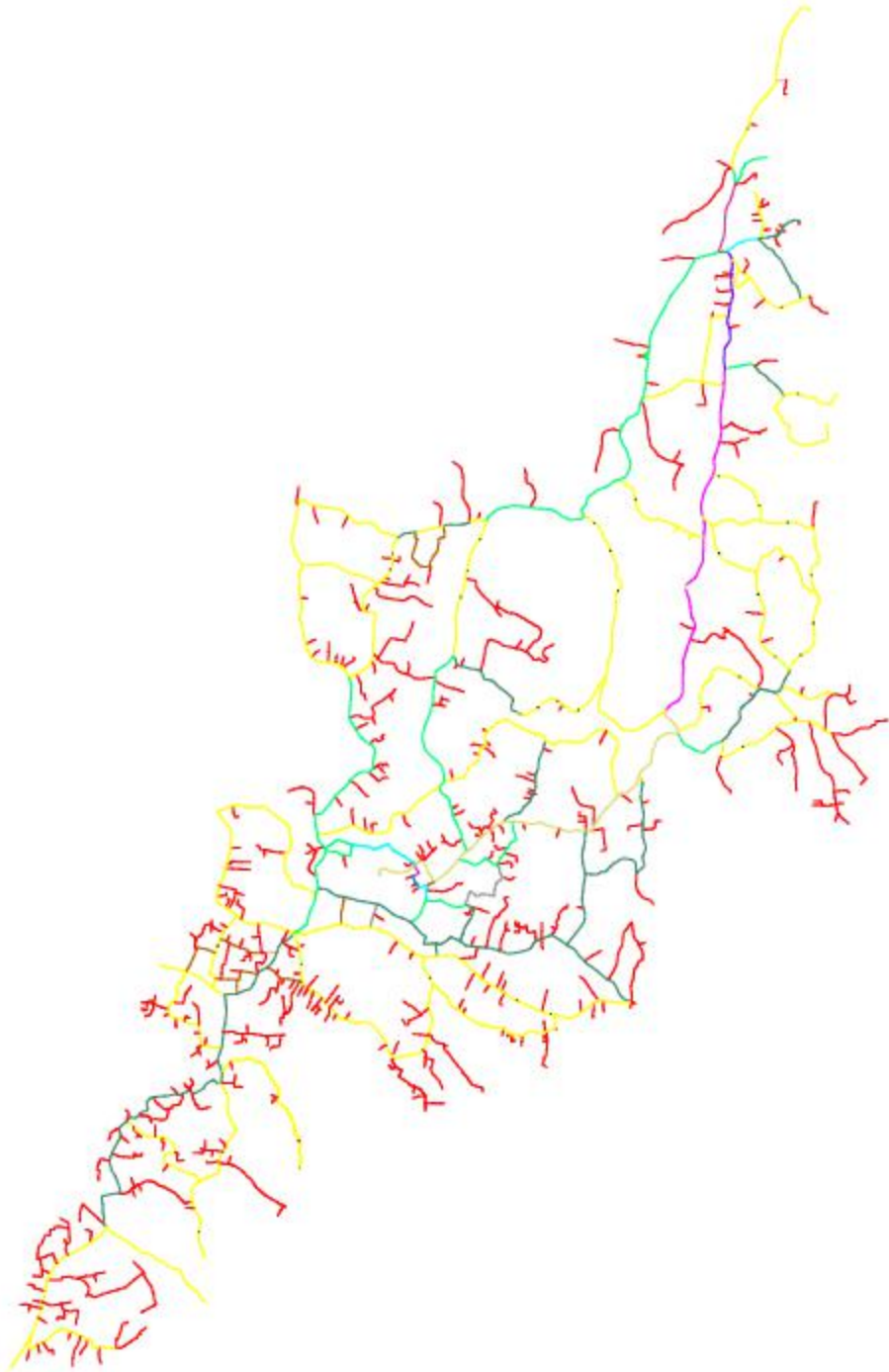
PROJECT: JIM PHASE B WSS to Uthya, Mooladi and Adjuring 15 Panchayats in Kottayam District

WORK: Design, Construction and Commissioning of 12LL Capacity Over Head Service Reservoir at Thiruvambadi

COMPONENT: DESIGN OF 12 LL CAPACITY OHSR FOR THIRUVAMBADI GRAMA PANCHAYATH

Scale as shown Sheet no: 1/2

Drawing no:
Contractor:



Colour	Dia	Length	Class
	90 mm	54519	12.5 Kg/cm ²
	110mm	1064	10 Kg/cm ²
	125mm	52	10 Kg/cm ²
	140mm	218	10 Kg/cm ²
	160 mm	47156	10 Kg/cm ²
	180mm	5785	10 Kg/cm ²
	200mm	26029	10 Kg/cm ² , K9
	250 mm	6149	10 Kg/cm ² , K9
	300mm	784	K9
	350mm	69	K9
	400mm	961	K9
	450 mm	2800	K9
	500mm	3488	K9


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Annexure IV

Drawings

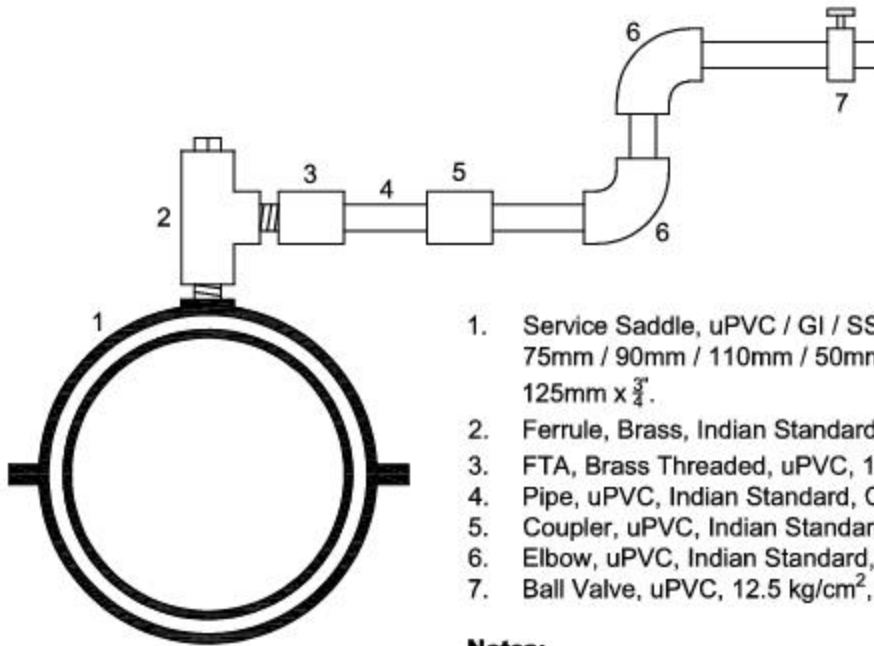
Water Connection using Indian Standard PE Pipes




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CONNECTION PIPE for PVC/HDPE/AC/GI Mains

For 20mm ($\frac{3}{4}$ ") Connection Using Indian Standard 25mm PE Pipe (Using Service Saddle)



1. Service Saddle, uPVC / GI / SS, 6 kg/cm², 50mm / 63mm / 75mm / 90mm / 110mm / 50mm / 65mm / 80mm / 100mm / 125mm x $\frac{3}{4}$ ".
2. Ferrule, Brass, Indian Standard, 20mm ($\frac{3}{4}$ ").
3. FTA, Brass Threaded, uPVC, 12.5 kg/cm², 25mm x $\frac{3}{4}$ ".
4. Pipe, uPVC, Indian Standard, Class 6, 25mm.
5. Coupler, uPVC, Indian Standard, Class 6, 25mm.
6. Elbow, uPVC, Indian Standard, Class 6, 25mm.
7. Ball Valve, uPVC, 12.5 kg/cm², 25mm.

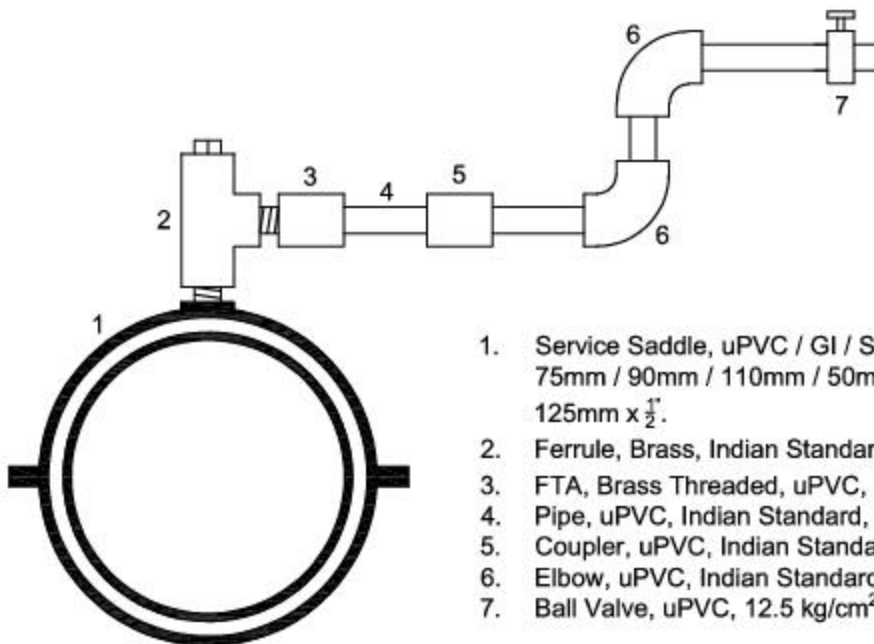
Notes:

1. PVC Service Saddle shall be used for PVC / HDPE Mains.
2. GI / SS Service Saddle shall be used for AC / GI Mains.
3. Size of Water Connection is the size of Ferrule.

No. PV01

CONNECTION PIPE for PVC/HDPE/AC/GI Mains

For 15mm ($\frac{1}{2}$ ") Connection Using Indian Standard 20mm PE Pipe (Using Service Saddle)



1. Service Saddle, uPVC / GI / SS, 6 kg/cm², 50mm / 63mm / 75mm / 90mm / 110mm / 50mm / 65mm / 80mm / 100mm / 125mm x $\frac{1}{2}$ ".
2. Ferrule, Brass, Indian Standard, 15mm ($\frac{1}{2}$ ").
3. FTA, Brass Threaded, uPVC, 12.5 kg/cm², 20mm x $\frac{1}{2}$ ".
4. Pipe, uPVC, Indian Standard, Class 6, 20mm.
5. Coupler, uPVC, Indian Standard, Class 6, 20mm.
6. Elbow, uPVC, Indian Standard, Class 6, 20mm.
7. Ball Valve, uPVC, 12.5 kg/cm², 20mm.

Notes:

1. PVC Service Saddle shall be used for PVC / HDPE Mains.
2. GI / SS Service Saddle shall be used for AC / GI Mains.
3. Size of Water Connection is the size of Ferrule.

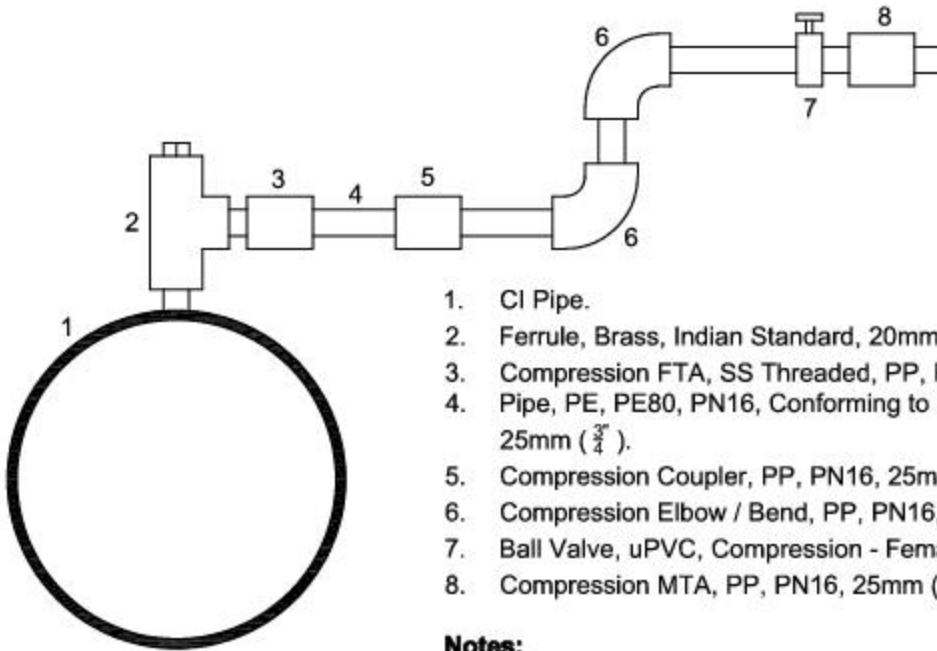
No. PV02


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CONNECTION PIPE for CI Mains

For 20mm ($\frac{3}{4}$ ") Connection Using Indian Standard 25mm PE Pipe rom CI Mains (Without Service Saddle)



1. CI Pipe.
2. Ferrule, Brass, Indian Standard, 20mm ($\frac{3}{4}$ ").
3. Compression FTA, SS Threaded, PP, PN 16, 25mm ($\frac{3}{4}$ ").
4. Pipe, PE, PE80, PN16, Conforming to IS4984: 2016 or later edition, 25mm ($\frac{3}{4}$ ").
5. Compression Coupler, PP, PN16, 25mm ($\frac{3}{4}$ ").
6. Compression Elbow / Bend, PP, PN16, 25mm ($\frac{3}{4}$ ").
7. Ball Valve, uPVC, Compression - Female Threaded, 25mm ($\frac{3}{4}$ ").
8. Compression MTA, PP, PN16, 25mm ($\frac{3}{4}$ ").

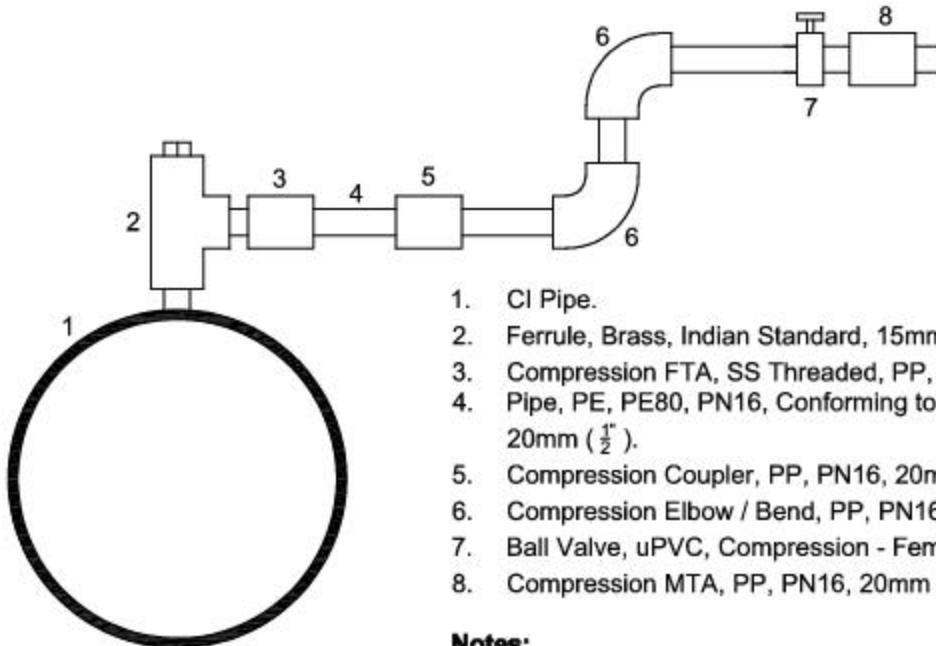
Notes:

1. PVC Service Saddle shall be used for PVC / HDPE Mains.
2. GI / SS Service Saddle shall be used for AC / GI Mains.
3. Size of Water Connection is the size of Ferrule.

No. PE03

CONNECTION PIPE for CI Mains

For 15mm ($\frac{1}{2}$ ") Connection Using Indian Standard 20mm PE Pipe from CI Mains (Without Service Saddle)



1. CI Pipe.
2. Ferrule, Brass, Indian Standard, 15mm ($\frac{1}{2}$ ").
3. Compression FTA, SS Threaded, PP, PN 16, 20mm ($\frac{1}{2}$ ").
4. Pipe, PE, PE80, PN16, Conforming to IS4984: 2016 or later edition, 20mm ($\frac{1}{2}$ ").
5. Compression Coupler, PP, PN16, 20mm ($\frac{1}{2}$ ").
6. Compression Elbow / Bend, PP, PN16, 20mm ($\frac{1}{2}$ ").
7. Ball Valve, uPVC, Compression - Female Threaded, 20mm ($\frac{1}{2}$ ").
8. Compression MTA, PP, PN16, 20mm ($\frac{1}{2}$ ").

Notes:

1. PVC Service Saddle shall be used for PVC / HDPE Mains.
2. GI / SS Service Saddle shall be used for AC / GI Mains.
3. Size of Water Connection is the size of Ferrule.

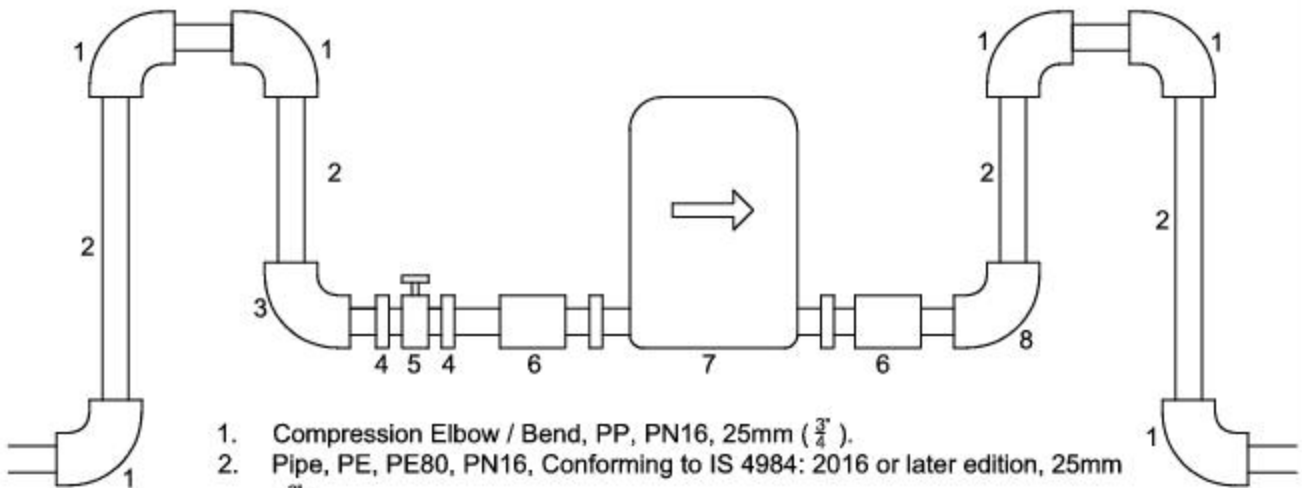
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No. PF04



SERVICE PIPE WITH METER ASSEMBLY

25mm Indian Standard PE Service Pipe with 20mm ($\frac{3}{4}$ ") Water Meter for 20mm ($\frac{3}{4}$ ") Connection.



1. Compression Elbow / Bend, PP, PN16, 25mm ($\frac{3}{4}$ ").
2. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$ ").
3. Compression FTA Elbow / Bend, SS Threaded, PP, PN16, 25mm ($\frac{3}{4}$ ").
4. Hexagonal Nipple, Brass, 20mm ($\frac{3}{4}$ ").
5. Gate Valve with Wheel, GM, Indian Standard, Class 2, 20mm ($\frac{3}{4}$ ").
6. Threaded Coupling, Brass, 20mm ($\frac{3}{4}$ ").
7. Water Meter, Indian Standard, Class B, Multijet, 20mm ($\frac{3}{4}$ ").
8. Compression MTA Elbow / Bend, SS Threaded, PP, PN16, 25mm ($\frac{3}{4}$ ").

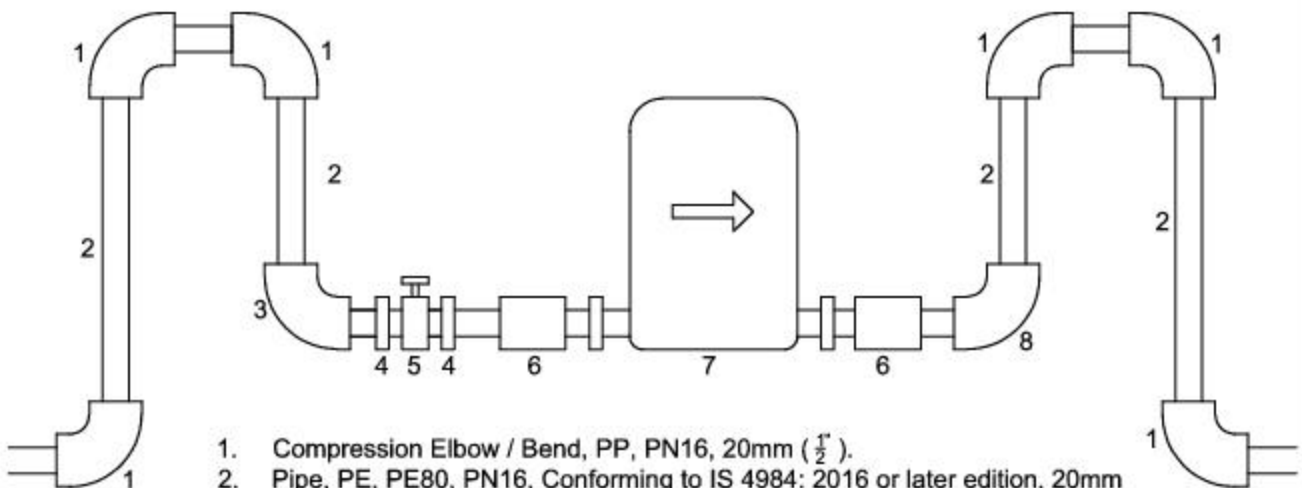
Notes:

1. Size of Water Connection is the size of Ferrule.

No. PE05

SERVICE PIPE WITH METER ASSEMBLY

20mm Indian Standard PE Service Pipe with 15mm ($\frac{1}{2}$ ") Water Meter for 15mm ($\frac{1}{2}$ ") Connection.



1. Compression Elbow / Bend, PP, PN16, 20mm ($\frac{1}{2}$ ").
2. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 20mm ($\frac{1}{2}$ ").
3. Compression FTA Elbow / Bend, SS Threaded, PP, PN16, 20mm ($\frac{1}{2}$ ").
4. Hexagonal Nipple, Brass, 15mm ($\frac{1}{2}$ ").
5. Gate Valve with Wheel, GM, Indian Standard, Class 2, 15mm ($\frac{1}{2}$ ").
6. Threaded Coupling, Brass, 15mm ($\frac{1}{2}$ ").
7. Water Meter, Indian Standard, Class B, Multijet, 15mm ($\frac{1}{2}$ ").
8. Compression MTA Elbow / Bend, SS Threaded, PP, PN16, 20mm ($\frac{1}{2}$ ").

Notes:

1. Size of Water Connection is the size of Ferrule.

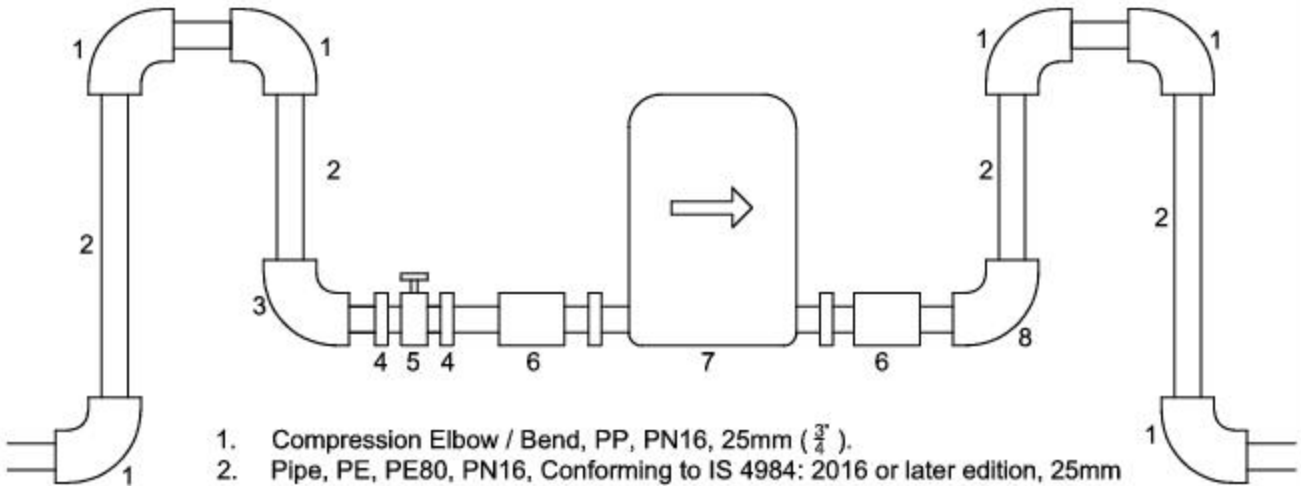
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No. PF06



SERVICE PIPE WITH METER ASSEMBLY

25mm Indian Standard PE Service Pipe with 15mm ($\frac{1}{2}$) Water Meter for 20mm ($\frac{3}{4}$) Connection.



1. Compression Elbow / Bend, PP, PN16, 25mm ($\frac{3}{4}$).
2. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$).
3. Compression FTA Elbow / Bend, SS Threaded, PP, PN16, 25mm ($\frac{3}{4}$).
4. Hexagonal Nipple, Brass, 20mm ($\frac{3}{4}$).
5. Gate Valve with Wheel, GM, Indian Standard, Class 2, 20mm ($\frac{3}{4}$).
6. Reducer Threaded Coupling, Brass, 20mm x 15mm ($\frac{3}{4}$ x $\frac{1}{2}$).
7. Water Meter, Indian Standard, Class B, Multijet, 15mm ($\frac{1}{2}$).
8. Compression MTA Elbow / Bend, SS Threaded, PP, PN16, 25mm ($\frac{3}{4}$).

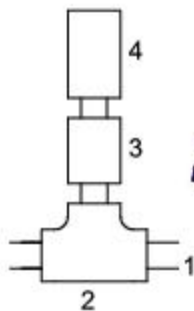
Notes:

1. Size of Water Connection is the size of Ferrule.

No. PE07

AIR VALVE

20mm ($\frac{1}{2}$) GM Air Valve in
25mm ($\frac{3}{4}$) PE Service Pipe.



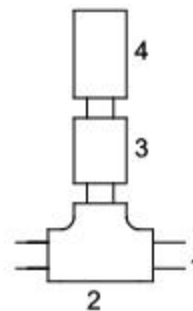
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1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$).
2. Compression Tee MTA, PP, PN16, 25mm ($\frac{3}{4}$).
3. Threaded Coupling, Brass, 20mm ($\frac{3}{4}$).
4. Air Valve, GM, Indian Standard, Class 2, 20mm ($\frac{1}{2}$).

No PF08

AIR VALVE

15mm ($\frac{1}{2}$) GM Air Valve in
20mm ($\frac{1}{2}$) PE Service Pipe.



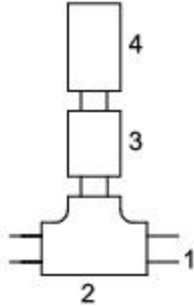
1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 20mm ($\frac{1}{2}$).
2. Compression Tee MTA, PP, PN16, 20mm ($\frac{1}{2}$).
3. Threaded Coupling, Brass, 15mm ($\frac{1}{2}$).
4. Air Valve, GM, Indian Standard, Class 2, 15mm ($\frac{1}{2}$).

No PF09



AIR VALVE

15mm ($\frac{1}{2}$) GM Air Valve in
25mm ($\frac{3}{4}$) PE Servie Pipe.

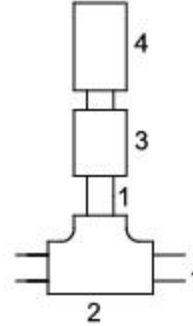


1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$).
2. Compression Tee MTA, PP, PN16, 25mm ($\frac{3}{4}$).
3. Reducer Threaded Coupling, Brass, 20mm x 15mm ($\frac{3}{4}$ x $\frac{1}{2}$).
4. Air Valve, GM, Indian Standard, Class 2, 15mm ($\frac{1}{2}$).

No. PE10

AIR VALVE

25mm ($\frac{3}{4}$) PVC Air Valve in
25mm ($\frac{3}{4}$) PE Servie Pipe.

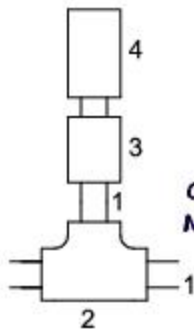


1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$).
2. Compression Tee, PP, PN16, 25mm ($\frac{3}{4}$).
3. Compression FTA, PP, PN16, 25mm ($\frac{3}{4}$).
4. Air Valve, uPVC, Indian Standard, 12.5 kg/cm², 25mm ($\frac{3}{4}$).

No. PE11

AIR VALVE

20mm ($\frac{1}{2}$) PVC Air Valve in
20mm ($\frac{1}{2}$) PE Servie Pipe.



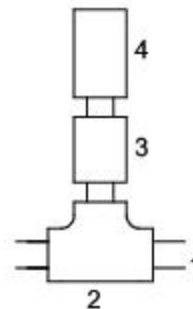
K. KHALID
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Mavoor - 673661

1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 20mm ($\frac{1}{2}$).
2. Compression Tee, PP, PN16, 20mm ($\frac{1}{2}$).
3. Compression FTA, PP, PN16, 20mm ($\frac{1}{2}$).
4. Air Valve, uPVC, Indian Standard, 12.5 kg/cm², 20mm ($\frac{1}{2}$).

No PF12

AIR VALVE

20mm ($\frac{1}{2}$) PVC Air Valve in
25mm ($\frac{3}{4}$) PE Servie Pipe.



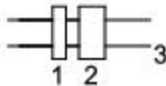
1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$).
2. Compression Tee MTA, PP, PN16, 25mm ($\frac{3}{4}$).
3. Reducer Threaded Coupling, Brass, 20mm x 15mm ($\frac{3}{4}$ x $\frac{1}{2}$).
4. Air Valve, uPVC, Indian Standard, 12.5 kg/cm², 20mm ($\frac{1}{2}$).

No PF13



CHECK VALVE

20mm ($\frac{3}{4}$ ") GM Check Valve in
25mm ($\frac{3}{4}$ ") PE Servie Pipe.

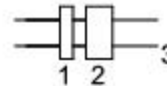


1. Hexagonal Nipple, Brass, 20mm ($\frac{3}{4}$ ").
2. Check Valve, GM, Indian Standard, Class 2, 20mm ($\frac{3}{4}$ ").
3. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$ ").

No. PE14

CHECK VALVE

15mm ($\frac{1}{2}$ ") GM Check Valve in
20mm ($\frac{1}{2}$ ") PE Servie Pipe.

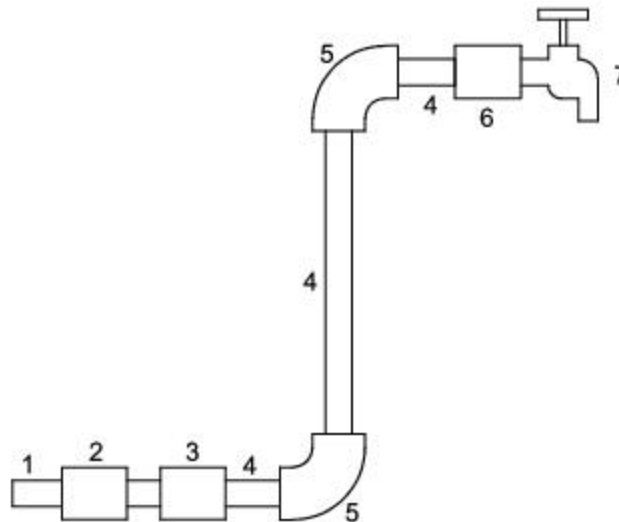


1. Hexagonal Nipple, Brass, 15mm ($\frac{1}{2}$ ").
2. Check Valve, GM, Indian Standard, Class 2, 15mm ($\frac{1}{2}$ ").
3. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 20mm ($\frac{1}{2}$ ").

No. PE15

BRASS BIB TAP

15mm ($\frac{1}{2}$ ") CP Brass Bib Tap in 25mm ($\frac{3}{4}$ ") Indian Standard PE Service Pipe



1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$ ").
2. Compression FTA, SS Threaded, PP, PN16, 25mm ($\frac{3}{4}$ ").
3. MTA, Brass Threaded, uPVC, 12.5 kg/cm², 25mm x $\frac{3}{4}$ ".
4. Pipe, uPVC, Indian Standard, Class 6, 25mm ($\frac{3}{4}$ ").
5. Elbow, uPVC, Indian Standard, Class 6, 25mm ($\frac{3}{4}$ ").
6. Reducer FTA, Brass Threaded, uPVC, 12.5 kg/cm², 25mm x $\frac{1}{2}$ ".
7. Bib Tap, CP Brass, Indian Standard, 15mm ($\frac{1}{2}$ ").

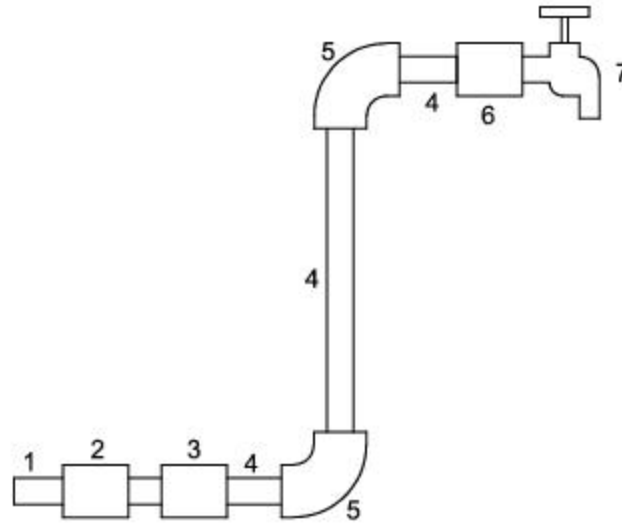
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No. PF16



BRASS BIB TAP

15mm ($\frac{1}{2}$ ") CP Brass Bib Tap in 20mm ($\frac{1}{2}$ ") Indian Standard PE Service Pipe

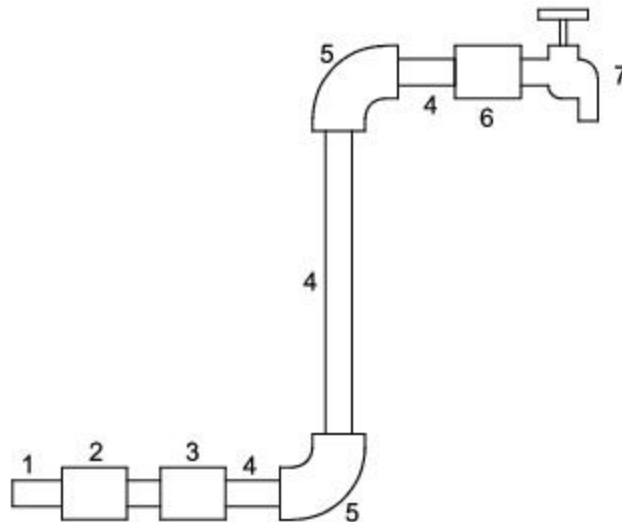


1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 20mm ($\frac{1}{2}$ ").
2. Compression FTA, SS Threaded, PP, PN16, 20mm ($\frac{1}{2}$ ").
3. MTA, Brass Threaded, uPVC, 12.5 kg/cm², 20mm x $\frac{1}{2}$ " .
4. Pipe, uPVC, Indian Standard, Class 6, 20mm ($\frac{1}{2}$ ").
5. Elbow, uPVC, Indian Standard, Class 6, 20mm ($\frac{1}{2}$ ").
6. FTA, Brass Threaded, uPVC, 12.5 kg/cm², 20mm x $\frac{1}{2}$ " .
7. Bib Tap, CP Brass, Indian Standard, 15mm ($\frac{1}{2}$ ").

No. PE17

PVC TAP

15mm ($\frac{1}{2}$ ") PVC Tap in 25mm ($\frac{3}{4}$ ") Indian Standard PE Service Pipe



1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 25mm ($\frac{3}{4}$ ").
2. Compression FTA, PP, PN16, 25mm ($\frac{3}{4}$ ").
3. MTA, uPVC, 12.5 kg/cm², 25mm x $\frac{3}{4}$ " .
4. Pipe, uPVC, Indian Standard, Class 6, 25mm ($\frac{3}{4}$ ").
5. Elbow, uPVC, Indian Standard, Class 6, 25mm ($\frac{3}{4}$ ").
6. Reducer FTA, uPVC, 12.5 kg/cm², 25mm x $\frac{1}{2}$ " .
7. Tap, PVC, 15mm ($\frac{1}{2}$ ").

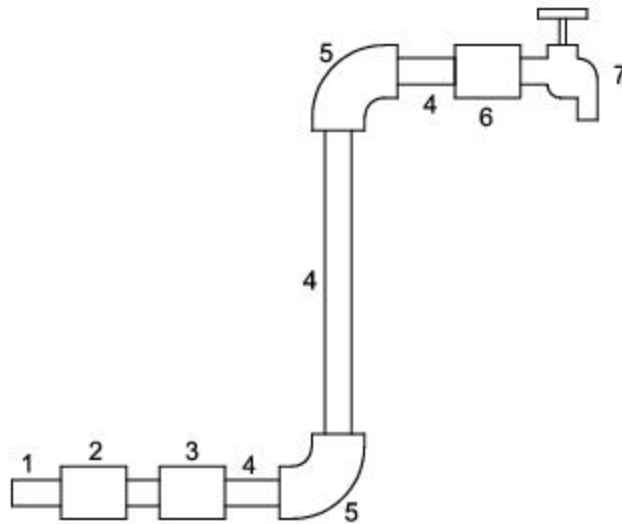

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No PF18



PVC TAP

15mm ($\frac{1}{2}$) PVC Tap in 20mm ($\frac{1}{2}$) Indian Standard PE Service Pipe



1. Pipe, PE, PE80, PN16, Conforming to IS 4984: 2016 or later edition, 20mm ($\frac{1}{2}$).
2. Compression FTA, PP, PN16, 20mm ($\frac{1}{2}$).
3. MTA, uPVC, 12.5 kg/cm², 20mm x $\frac{1}{2}$.
4. Pipe, uPVC, Indian Standard, Class 6, 20mm ($\frac{1}{2}$).
5. Elbow, uPVC, Indian Standard, Class 6, 20mm ($\frac{1}{2}$).
6. FTA, uPVC, 12.5 kg/cm², 20mm x $\frac{1}{2}$.
7. Tap, PVC, 15mm ($\frac{1}{2}$).

No PF19


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