

“ನೀರನ್ನು ಮಿತವಾಗಿ ಬಳಸಿ”

“ಕನ್ನಡದಲ್ಲೇ ವ್ಯವಹರಿಸಿ”



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ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

BANGALORE WATER SUPPLY & SEWERAGE BOARD

ಮುಖ್ಯ ಅಭಿಯಂತರರು (ವಿನ್ಯಾಸ) ರವರ ಕಛೇರಿ, ೯ನೇ ಮಹಡಿ, ಕಾವೇರಿ ಭವನ, ಬೆಂಗಳೂರು-೫೬೦೦೦೯.

ಸಂಖ್ಯೆ: ಬೆ.ಜ.ಮಂ/ಮುಅ(ವಿನ್ಯಾಸ)/ಅಮುಅ(ವಿನ್ಯಾಸ)/ತಾ.ಸ(ಎ)/ 222 /2022-23 ದಿನಾಂಕ: 07/06/2022

ಸೇರ್ಪಡೆ/ತಿದ್ದುಪಡಿ ಜ್ಞಾಪನಾ ಪತ್ರ-2

ವಿಷಯ: 2021-22 ನೇ ಸಾಲಿನ ಸಂಪುಟ-5 ರ ದರಪಟ್ಟಿಯ ಹೆಚ್ಚುವರಿ ಅಂಶಗಳ ಸೇರ್ಪಡೆ ಮತ್ತು ತಿದ್ದುಪಡಿ / ಸೃಷ್ಟಿಕರಣ ಕುರಿತು

- ಉಲ್ಲೇಖ: 1. ಆ.ಸಂ: ಲೋ.ಇ-51 ಆರ್‌ಡಿಎಫ್ 2019, ಬೆಂಗಳೂರು ದಿ:25.03.2022
2. ಸಂ.ಬೆಂ.ಜ.ಮಂ/ಮು.ಅ(ಎ)/ಅ.ಮು.ಅ(ಎ)/ಟಿ.ಎ(ಎ)/2659/2021-22 ದಿ:25.03.2022
3. ಸಂ.ಬೆಂ.ಜ.ಮಂ/ಮು.ಅ(ಎ)/ಅ.ಮು.ಅ(ಎ)/ತಾ.ಸ(ಎ)/04/2022-23 ದಿ:05.04.2022
4. ದಿನಾಂಕ:09.05.2022 ಹಾಗೂ 02.06.2022 ರಂದು ನಡೆದ ಖಾಯಂ ನಿರತ ದರಪಟ್ಟಿ ತಯಾರಿಕ ಸಮಿತಿ ಸಭೆಯ ನಡವಳಿಗಳು

ಪ್ರಸ್ತಾವನೆ:

ಮೇಲಿನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖ (1) ರ ಸರ್ಕಾರದ ಆದೇಶದನ್ವಯ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಕಾಮಗಾರಿಗಳ ಏಕರೂಪ ಅನುಸೂಚಿ ದರಪಟ್ಟಿ: 2021-22 ನ್ನು ದಿನಾಂಕ: 25.03.2022 ರಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಉಲ್ಲೇಖ (2) ರ ಜ್ಞಾಪನಾ ಪತ್ರದಲ್ಲಿ ಅಳವಡಿಕೆಗೆ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

ಅದರಂತೆ, ಉಲ್ಲೇಖ (3) ರ ಮಂಡಳಿಯ ತಿದ್ದುಪಡಿ ಜ್ಞಾಪನಾ ಪತ್ರದಲ್ಲಿ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಕಾಮಗಾರಿಗಳ ಏಕರೂಪ ಅನುಸೂಚಿ ದರಪಟ್ಟಿ 2021-22 ರಲ್ಲಿನ ಕೆಲವು ಕೊಳವೆಗಳ ದರಗಳನ್ನು ಪರಿಷ್ಕರಿಸಿ ಆದೇಶಿಸಲಾಗಿತ್ತು. ಸದರಿ ದರಪಟ್ಟಿಯಲ್ಲಿ ಕೆಲವು ಹೆಚ್ಚುವರಿ ಅಂಶಗಳ ಸೇರ್ಪಡೆ ಮತ್ತು ತಿದ್ದುಪಡಿಯ ಅವಶ್ಯಕತೆ ಕಂಡುಬಂದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ/ ಕರ್ನಾಟಕ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ/ ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆಗಳಿಗೆ ಸಂಬಂಧಿಸಿದ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಕಾಮಗಾರಿಗಳ ಏಕ ರೂಪ ದರಪಟ್ಟಿಯ ತಯಾರಿಕ ಖಾಯಂ ಸಮಿತಿಯು ಸಭೆ ಸೇರಿ ಚರ್ಚಿಸಿ ಈ ಹೆಚ್ಚುವರಿ ಅಂಶಗಳು ಮತ್ತು ತಿದ್ದುಪಡಿ ಕುರಿತು ಪ್ರಕಟಣೆ ಹೊರಡಿಸಲು ತೀರ್ಮಾನಿಸಲಾಯಿತು.

ಆದೇಶ:

ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಕಾಮಗಾರಿಗಳ ಏಕ ರೂಪ ದರಪಟ್ಟಿಯ ತಯಾರಿಕ ಖಾಯಂ ಸಮಿತಿಯ ಉಲ್ಲೇಖ-4 ರಲ್ಲಿನ ಸಭೆಗಳಲ್ಲಿ ಮೇಲಿನ ಅಂಶಗಳನ್ನು ಪರಿಶೀಲಿಸಿ, ಸಮಿತಿಯ ಅಭಿಪ್ರಾಯದಂತೆ ಸಂಪುಟ 5 ರ ದರಪಟ್ಟಿಯ ಅವಶ್ಯವಿರುವ ಸೃಷ್ಟಿಕರಣ, ತಿದ್ದುಪಡಿ ಹಾಗೂ ಹೆಚ್ಚುವರಿ ಹೊಸ ಅಂಶಗಳ ಸೇರ್ಪಡೆಗಳನ್ನು ದಿನಾಂಕ: 07.06.2022 ರಿಂದ ಅನ್ವಯಿಸುವಂತೆ ಆದೇಶಿಸಲಾಗಿದೆ ಹಾಗೂ ಮಂಡಳಿಯ ಜಾಲತಾಣ www.bwssb.karnataka.gov.in ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಕಾಮಗಾರಿಗಳ ಏಕರೂಪ ದರಪಟ್ಟಿ 2021-22 ರಲ್ಲಿನ ಹೊಸ ಅಂಶಗಳ ಸೇರ್ಪಡೆಗಳನ್ನು 1st Addendum ನಲ್ಲಿ ಹಾಗೂ ಸೃಷ್ಟಿಕರಣ/ತಿದ್ದುಪಡಿಗಳನ್ನು 2nd Corrigendum ನಲ್ಲಿ ತಿಳಿಸಿರುವಂತೆ ಸದರಿ ಅಂಶಗಳ ದರಗಳು ಹಾಗೂ ತಾಂತ್ರಿಕ ವಿವರಣೆಯನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು. ಈ ಪರಿಷ್ಕೃತ ದರಗಳನ್ನು ಹಾಗೂ ತಾಂತ್ರಿಕ ವಿವರಣೆಯನ್ನು ರಾಜ್ಯ ವ್ಯಾಪ್ತಿ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಕಾಮಗಾರಿಗಳನ್ನು ಕೈಗೊಳ್ಳುವ ಎಲ್ಲಾ ಇಲಾಖೆಗಳಿಗೆ ಅನ್ವಯವಾಗುವಂತೆ ತಕ್ಷಣದಿಂದ ಹಾಗೂ ಮುಂದಿನ ಆದೇಶದವರೆಗೆ ಜಾರಿಗೆ ತರಲಾಗಿದೆ.

 07/06/2022

ಮುಖ್ಯ ಅಭಿಯಂತರರು(ವಿನ್ಯಾಸ) (ಪ್ರಭಾರ)

ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

ಹಾಗೂ ಏಕರೂಪ ದರಪಟ್ಟಿ ಸಮಿತಿ ಅಧ್ಯಕ್ಷರು

ಪ್ರತಿಯನ್ನು:

1. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳು ಹಾಗೂ ಅಧ್ಯಕ್ಷರು, ಅನುಸೂಚಿ ದರಗಳ ಪರಿಶೀಲನಾ ಸಮಿತಿ ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ.
2. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು ಹಾಗೂ ಅಧ್ಯಕ್ಷರು, ಅನುಸೂಚಿ ದರಗಳ ರಚನಾ ಸಮಿತಿ ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ.
3. ಅಧ್ಯಕ್ಷರು, ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ/ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ, ಬೆಂಗಳೂರು / ಆಯುಕ್ತರು, ಗ್ರಾಮೀಣ ಕುಡಿಯುವ ನೀರು ಸರಬರಾಜು ಮತ್ತು ನೈರ್ಮಲ್ಯ ಇಲಾಖೆ, ಬೆಂಗಳೂರು, ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ.
4. ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು ಆರ್ಥಿಕ ಇಲಾಖೆ (ವೆಚ್ಚ), ಬೆಂಗಳೂರು ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ.
5. ಅಧ್ಯಕ್ಷರು, ತಾಂತ್ರಿಕ ಕಾರ್ಯಪಡೆ, ಬೆಂಗಳೂರು, ಏಕರೂಪ ಅನುಸೂಚಿ ದರಪಟ್ಟಿ ರವರ ಘನ ಮಾಹಿತಿಗಾಗಿ.
6. ಪ್ರಧಾನ ಅಭಿಯಂತರರು/ಮುಖ್ಯ ಅಭಿಯಂತರರು BWSSB, KUWS&DB and RDW&SD ಹಾಗೂ ಸರ್ಕಾರದ ಇತರ ಇಲಾಖೆ / ನಿಗಮ /ಮಂಡಳಿ ರವರ ಮಾಹಿತಿಗಾಗಿ.
7. ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು / ಅಪರ ಮುಖ್ಯ ಅಭಿಯಂತರರು BWSSB, KUWS&DB and RDW&SD ಹಾಗೂ ಸಮಿತಿಯ ಸದಸ್ಯರು ಹಾಗೂ ಸರ್ಕಾರದ ಇತರೆ ಇಲಾಖೆ/ನಿಗಮ ಮಂಡಳಿ ರವರ ಮಾಹಿತಿಗಾಗಿ.
8. ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು ಸರ್ಕಾರದ ಎಲ್ಲಾ ಇಲಾಖೆ/ನಿಗಮ/ಮಂಡಳಿ ರವರ ಮಾಹಿತಿಗಾಗಿ.
9. ಕಛೇರಿ ಕಡತಕ್ಕಾಗಿ.

**WATER SUPPLY AND UGD WORKS
COMMON SCHEDULE OF RATES 2021-22**

2nd Corrigendum for Volume-5 Schedule of Rates w.e.f 07.06.2022

Based on the Inputs/Suggestions/ Requests received from Committee Officers & Engineers, the following items have been listed with clarification & correction notes:

SL NO	ITEM NO	PAGE NO	DESCRIPTION AS PRINTED IN SR (VOL-5)	Rate (in Rs)	CORRECTED/CLARIFIED AS	Rate (in Rs)
1	O010		Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)		Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)	
	O010A	151	Borewell depth of 0 to 50 Mtrs	290	Borewell depth of 0 to 50 Mtrs	347
	O010B	151	Borewell depth of 50 to 100 Mtrs	364	Borewell depth of 50 to 100 Mtrs	442
	O010C	151	Borewell depth of 100 to 150 Mtrs	387	Borewell depth of 100 to 150 Mtrs	456
	O010D	151	Borewell depth of 150 to 200 Mtrs	449	Borewell depth of 150 to 200 Mtrs	536
	O010E	151	Borewell depth of 200 to 250 Mtrs	527	Borewell depth of 200 to 250 Mtrs	634
	O010F	151	Borewell depth of 250 to 300 Mtrs	558	Borewell depth of 250 to 300 Mtrs	700
	O010G	151	Borewell depth of 300 to 350 Mtrs	620	Borewell depth of 300 to 350 Mtrs	825
	O010H	151	Borewell depth of 350 to 400 Mtrs	697	Borewell depth of 350 to 400 Mtrs	900
	O010I	151	Borewell depth of 400 to 450 Mtrs	930	Borewell depth of 400 to 450 Mtrs	1129
					Note: Above 450m of Drilling Add 10% for every 50m Depth	
2	O020	151	Sinking borewell of 150mm dia. clear, using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF and above, in all strata of earth, including over burden upto 20M, fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges, cost of consumables, cost of yield test at the final depth with a minimum working of compressor for one hour etc. complete. The cost excludes the cost of casing pipes, collars and caps etc.) for:		Sinking borewell of 150mm dia. clear, using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF and above, in all strata of earth, including over burden upto 20M, fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges, cost of consumables, cost of yield test at the final depth with a minimum working of compressor for one hour etc. complete. The cost excludes the cost of casing pipes, collars and caps etc.) for:	
	O020A		Borewell depth of 0 to 50 m	247	Borewell depth of 0 to 50 m	301


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SL NO	ITEM NO	PAGE NO	DESCRIPTION AS PRINTED IN SR (VOL-5)	Rate (in Rs)	CORRECTED/CLARIFIED AS	Rate (in Rs)
	O020B		Borewell depth of 50 to 100 m	309	Borewell depth of 50 to 100 m	377
	O020C		Borewell depth of 100 to 150 m	329	Borewell depth of 100 to 150 m	401
	O020D		Borewell depth of 150 to 200 m	381	Borewell depth of 150 to 200 m	465
	O020E		Borewell depth of 200 to 250 m	447	Borewell depth of 200 to 250 m	545
	O020F		Borewell depth of 250 to 300 m	473	Borewell depth of 250 to 300 m	577
	O020G		Borewell depth above 300 m	526	Borewell depth of 300 m to 350m	641
					Note: Above 350m of Drilling Add 10% for every 50m Depth	
3	B170	81	Providing and fixing 3 layer PP-R (Poly Propylene Random Copolymer) pipes conforming to IS.15801, UV stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply, including all PP-R plain and brass threaded polypropylene random fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-In- Charge.		Providing and fixing 3 layer PP-R (Poly Propylene Random Copolymer) pipes conforming to IS.15801 with WRAS and NSF certificates with UV stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply, including all PP-R plain and brass threaded polypropylene random fittings, including fixing the pipe with clamps at 1.00 m spacing(Excluding Special Fittings). This includes Lot wise test report as per the relevant IS/ISO/DIN/BIS codes and also testing of joints complete as per direction of Engineer-In- Charge.	
4	B034G	68	Making cement mortar (1:1) and hemp yarn joint for CI pipes including cost of all materials like cement, sand, hemp yarn, water proofing materials, curing for 10 days and giving satisfactory hydraulic test pressure of 60 meters head of water etc. complete for :300 mm dia. pipes	187	Making cement mortar (1:1) and hemp yarn joint for CI pipes including cost of all materials like cement, sand, hemp yarn, water proofing materials, curing for 10 days and giving satisfactory hydraulic test pressure of 60 meters head of water etc. complete for :300 mm dia. pipes	302
5	B078 & B079	73-74	Supplying and fixing Wafer type single flange Butterfly valve conforming to relevant IS 13099/9991 EN GGG40/50 with latest amendments as detailed below of the following diameter and types with TP set and conveying to work site, loading and unloading, stacking etc. with all lead and lift. The rate is inclusive of the cost of valve, TP set, bolts and nuts and excluding earth work. For PN 10.0 (Note: TP set should be considered only for DI pipes estimate. For MS pipes estimates, TP sets cost of corresponding dia shall be deducted from the SR rates of valves and provision for corresponding dia MS flanges should be made in the estimate.)		Supplying and fixing Wafer type single flange Butterfly valve conforming to relevant IS 13099/9991 EN GGG40/50 with latest amendments as detailed below of the following diameter and types and conveying to work site, loading and unloading, stacking etc. with all lead and lift. The rate is inclusive of the cost of valve, bolts and nuts and excluding earth work.	


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SL NO	ITEM NO	PAGE NO	DESCRIPTION AS PRINTED IN SR (VOL-5)	Rate (in Rs)	CORRECTED/CLARIFIED AS	Rate (in Rs)
6	B080 & B081	74	Supplying and fixing of Double Flanged Resilient seated short body Butterfly valves of various dia. As per IS 13095/en 593 with integral DI seat face with approved soft sealing with body and disc of Ductile Iron (DI) of grade GGG-40/50, Body seat & Seal retaining ring of SS 304/CF8, Shaft of stainless steel AISI 410/420/431, Bronze shaft bearing, periferal disk, seal end "o" rings of EPDM, double eccentric disk. Body and disk should be coated with electrostatcially applied epoxy powder coating with a coating thickness of 250 micron both inside and out side. The rate is inclusive of cost of valve, TP set, galvanised bolts and nuts and rubber insertions. For PN 10.0 (All the drilled holes in the body shall be of through holes, no tapped holes will be allowed.) (Note: TP set should be considered only for DI pipes estimate. For MS pipes estimates, TP sets cost of corresponding dia shall be deducted from the SR rates of valves and provision for corresponding dia MS flanges should be made in the estimate.)		Supplying and fixing of Double Flanged Resilient seated short body Butterfly valves of various dia. As per IS 13095/en 593 with integral DI seat face with approved soft sealing with body and disc of Ductile Iron (DI) of grade GGG-40/50, Body seat & Seal retaining ring of SS 304/CF8, Shaft of stainless steel AISI 410/420/431, Bronze shaft bearing, periferal disk, seal end "o" rings of EPDM, double eccentric disk. Body and disk should be coated with electrostatcially applied epoxy powder coating with a coating thickness of 250 micron both inside and out side. The rate is inclusive of cost of valve, galvanised bolts and nuts and rubber insertions. (All the drilled holes in the body shall be of through holes, no tapped holes will be allowed.)	


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**WATER SUPPLY AND UGD WORKS
COMMON SCHEDULE OF RATES 2021-22**

1st Addendum for Volume-5 Schedule of Rates w.e.f 07.06.2022

Based on the Inputs/Suggestions/ Requests received from Committee Officers & Engineers, the following items have been listed with clarification & correction notes:

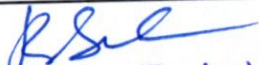
SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
1		Special Fittings		
	B180	Supply of PPR Reducing TEE confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B180A	Reducing TEE 20mmx16mmx20mm	NOs	21
	B180B	Reducing TEE 25mmx16mmx25mm	NOs	23
	B180C	Reducing TEE 25mmx20mmx25mm	NOs	28
	B180D	Reducing TEE 32mmx20mmx32mm	NOs	50
	B180E	Reducing TEE 32mmx25mmx32mm	NOs	51
	B180F	Reducing TEE 40mmx20mmx40mm	NOs	73
	B180G	Reducing TEE 40mmx25mmx40mm	NOs	77
	B180H	Reducing TEE 40mmx32mmx40mm	NOs	79
	B180I	Reducing TEE 50mmx20mmx50mm	NOs	132
	B180J	Reducing TEE 50mmx25mmx50mm	NOs	138
	B180K	Reducing TEE 50mmx32mmx50mm	NOs	141
	B180L	Reducing TEE 50mmx40mmx50mm	NOs	143
	B180M	Reducing TEE 63mmx20mmx63mm	NOs	245
	B180N	Reducing TEE 63mmx25mmx63mm	NOs	248
	B180O	Reducing TEE 63mmx32mmx63mm	NOs	249
	B180P	Reducing TEE 63mmx40mmx63mm	NOs	254
	B180Q	Reducing TEE 63mmx50mmx63mm	NOs	258


Chief Engineer (Design)
BWSSB
 9th Floor, Cauvery Bhavan,
 K G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B181	Supply of PPR End Cap confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B181A	PPR End Cap 16mm	NOs	9
	B181B	PPR End Cap 20mm	NOs	11
	B181C	PPR End Cap 25mm	NOs	13
	B181D	PPR End Cap 32mm	NOs	21
	B181E	PPR End Cap 40mm	NOs	29
	B181F	PPR End Cap 50mm	NOs	49
	B181G	PPR End Cap 63mm	NOs	85
	B182	Supply of PPR Flange core (stub end) confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B182A	PPR Flange core (stub end) 20mm	NOs	89
	B182B	PPR Flange core (stub end) 25mm	NOs	100
	B182C	PPR Flange core (stub end) 32mm	NOs	111
	B182D	PPR Flange core (stub end) 40mm	NOs	117
	B182E	PPR Flange core (stub end) 50mm	NOs	131
	B182F	PPR Flange core (stub end) 63mm	NOs	135
	B183	Supply of PPR Slip-on flange confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B183A	PPR Slip-on flange 20mm	NOs	230
	B183B	PPR Slip-on flange 25mm	NOs	241
	B183C	PPR Slip-on flange 32mm	NOs	253
	B183D	PPR Slip-on flange 40mm	NOs	284
	B183E	PPR Slip-on flange 50mm	NOs	306
	B183F	PPR Slip-on flange 63mm	NOs	361


Chief Engineer (Design)
BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B184	Supply of PPR Plain Union confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B184A	PPR Plain Union 20mm	NOs	58
	B184B	PPR Plain Union 25mm	NOs	95
	B184C	PPR Plain Union 32mm	NOs	180
	B184D	PPR Plain Union 40mm	NOs	227
	B184E	PPR Plain Union 50mm	NOs	449
	B184F	PPR Plain Union 63mm	NOs	774
	B185	Supply of PPR 4way/cross TEE confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B185A	PPR 4way/cross TEE 16mm	NOs	27
	B185B	PPR 4way/cross TEE 20mm	NOs	29
	B185C	PPR 4way/cross TEE 25mm	NOs	45
	B185D	PPR 4way/cross TEE 32mm	NOs	60
	B185E	PPR 4way/cross TEE 40mm	NOs	100
	B185F	PPR 4way/cross TEE 50mm	NOs	158
	B185G	PPR 4way/cross TEE 63mm	NOs	221
	B186	Supply of PPR Pipe Clamp confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B186A	PPR Pipe Clamp 16mm	NOs	8
	B186B	PPR Pipe Clamp 20mm	NOs	9
	B186C	PPR Pipe Clamp 25mm	NOs	10
	B186D	PPR Pipe Clamp 32mm	NOs	12
	B186E	PPR Pipe Clamp 40mm	NOs	21
	B186F	PPR Pipe Clamp 50mm	NOs	27
	B186G	PPR Pipe Clamp 63mm	NOs	42
	B187	Supply of PPR Long Plug confirming to IS 15801-2008 and DIN Standards 8077/8092		


Chief Engineer (Design)
BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B187A	PPR Long Plug 1/2"		
	B187B	PPR Long Plug 3/4"	NOs	9
	B187C	PPR Long Plug 1"	NOs	12
			NOs	13
	B188	Supply of PPR Tank Connectorconfirming to IS 15801-2008 and DIN Standards 8077/8092		
	B188A	PPR Tank Connector 20mm	NOs	73
	B188B	PPR Tank Connector 25mm	NOs	128
	B188C	PPR Tank Connector 32mm	NOs	148
	B188D	PPR Tank Connector 40mm	NOs	151
	B188E	PPR Tank Connector 50mm	NOs	262
	B188F	PPR Tank Connector 63mm	NOs	318
	B189	Supply of PPR Ball Valve Plastic (Heavy Body) confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B189A	PPR Ball Valve Plastic (Heavy Body) 20mm	NOs	146
	B189B	PPR Ball Valve Plastic (Heavy Body) 25mm	NOs	206
	B189C	PPR Ball Valve Plastic (Heavy Body) 32mm	NOs	343
	B189D	PPR Ball Valve Plastic (Heavy Body) 40mm	NOs	469
	B189E	PPR Ball Valve Plastic (Heavy Body) 50mm	NOs	637
	B189F	PPR Ball Valve Plastic (Heavy Body) 63mm	NOs	900
	B190	Supply of PPR Male Threaded Coupling confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B190A	PPR Male Threaded Coupling 16X1/2mm	NOs	81
	B190B	PPR Male Threaded Coupling 20X1/2mm	NOs	82
	B190C	PPR Male Threaded Coupling 25X1/2mm	NOs	94
	B190D	PPR Male Threaded Coupling 25X3/4mm	NOs	137
	B190E	PPR Male Threaded Coupling 32X1/2mm	NOs	123


Chief Engineer (Design)
BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B190F	PPR Male Threaded Coupling 32X3/4mm	NOs	160
	B190G	PPR Male Threaded Coupling 32X1mm	NOs	203
	B190H	PPR Male Threaded Coupling 40X1-1/4mm	NOs	381
	B190I	PPR Male Threaded Coupling 50X1-1/2mm	NOs	682
	B190J	PPR Male Threaded Coupling 63X2mm	NOs	1090
	B191	Supply of PPR Female Threaded Coupling confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B191A	PPR Female Threaded Coupling 16X1/2mm	NOs	53
	B191B	PPR Female Threaded Coupling 20X1/2mm	NOs	59
	B191C	PPR Female Threaded Coupling 25X1/2mm	NOs	66
	B191D	PPR Female Threaded Coupling 25X3/4mm	NOs	116
	B191E	PPR Female Threaded Coupling 32X1/2mm	NOs	98
	B191F	PPR Female Threaded Coupling 32X3/4mm	NOs	136
	B191G	PPR Female Threaded Coupling 32X1mm	NOs	172
	B191H	PPR Female Threaded Coupling 40X1-1/4mm	NOs	293
	B191I	PPR Female Threaded Coupling 50X1-1/2mm	NOs	486
	B191J	PPR Female Threaded Coupling 63X2mm	NOs	823
	B192	Supply of PPR Female Threaded TEE confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B192A	PPR Female Threaded TEE 16X1/2mm	NOs	56
	B192B	PPR Female Threaded TEE 20X1/2mm	NOs	60
	B192C	PPR Female Threaded TEE 25X1/2mm	NOs	74
	B192D	PPR Female Threaded TEE 25X3/4mm	NOs	133
	B192E	PPR Female Threaded TEE 32X1/2mm	NOs	119
	B192F	PPR Female Threaded TEE 32X3/4mm	NOs	167
	B192G	PPR Female Threaded TEE 32X1mm	NOs	207
	B192H	PPR Female Threaded TEE 40X1-1/4mm	NOs	311


Chief Engineer (Design)
BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B193	Supply of PPR Male Threaded TEE confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B193A	PPR Male Threaded TEE 16X1/2mm	NOs	91
	B193B	PPR Male Threaded TEE 20X1/2mm	NOs	92
	B193C	PPR Male Threaded TEE 25X1/2mm	NOs	102
	B193D	PPR Male Threaded TEE 25X3/4mm	NOs	156
	B193E	PPR Male Threaded TEE 32X1/2mm	NOs	149
	B193F	PPR Male Threaded TEE 32X3/4mm	NOs	193
	B193G	PPR Male Threaded TEE 32X1mm	NOs	223
	B193H	PPR Male Threaded TEE 40X1-1/4mm	NOs	404
	B194	Supply of PPR Female Threaded Elbow confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B194A	PPR Female Threaded Elbow 16X1/2mm	NOs	53
	B194B	PPR Female Threaded Elbow 20X1/2mm	NOs	56
	B194C	PPR Female Threaded Elbow 25X1/2mm	NOs	70
	B194D	PPR Female Threaded Elbow 25X3/4mm	NOs	115
	B194E	PPR Female Threaded Elbow 32X1/2mm	NOs	112
	B194F	PPR Female Threaded Elbow 32X3/4mm	NOs	169
	B194G	PPR Female Threaded Elbow 32X1mm	NOs	210
	B194H	PPR Female Threaded Elbow 40X1-1/4mm	NOs	307
	B195	Supply of PPR Male Threaded Elbow confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B195A	PPR Male Threaded Elbow 16X1/2mm	NOs	81
	B195B	PPR Male Threaded Elbow 20X1/2mm	NOs	82
	B195C	PPR Male Threaded Elbow 25X1/2mm	NOs	98
	B195D	PPR Male Threaded Elbow 25X3/4mm	NOs	148
	B195E	PPR Male Threaded Elbow 32X1/2mm	NOs	130


Chief Engineer (Design)
BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B195F	PPR Male Threaded Elbow 32X3/4mm	NOs	166
	B195G	PPR Male Threaded Elbow 32X1mm	NOs	206
	B195H	PPR Male Threaded Elbow 40X1-1/4mm	NOs	410
	B196	Supply of PPR Gate valve confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B196A	PPR Gate valve 20mm	NOs	378
	B196B	PPR Gate valve 25mm	NOs	415
	B196C	PPR Gate valve 32mm	NOs	585
	B196D	PPR Gate valve 40mm	NOs	880
	B196E	PPR Gate valve 50mm	NOs	1083
	B196F	PPR Gate valve 63mm	NOs	1466
	B197	Supply of PPR Male Threaded Union confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B197A	PPR Male Threaded Union 20X1/2mm	NOs	275
	B197B	PPR Male Threaded Union 25X3/4mm	NOs	326
	B197C	PPR Male Threaded Union 30X1mm	NOs	503
	B197D	PPR Male Threaded Union 40X1-1/4mm	NOs	786
	B197E	PPR Male Threaded Union 50X1-1/2mm	NOs	1467
	B197F	PPR Male Threaded Union 63X2mm	NOs	2347
	B198	Supply of PPR Female Thraeded Union confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B198A	PPR Female Thraeded Union 20X1/2mm	NOs	226
	B198B	PPR Female Thraeded Union 25X3/4mm	NOs	315
	B198C	PPR Female Thraeded Union 32X1mm	NOs	463
	B198D	PPR Female Thraeded Union 40X1-1/4mm	NOs	749
	B198E	PPR Female Thraeded Union 50X1-1/2mm	NOs	1257
	B198F	PPR Female Thraeded Union 60X2mm	NOs	2156


 Chief Engineer (Design)
 BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
	B199	Supply of PPR Double Union Ball Valve confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B199A	PPR Double Union Ball Valve 20mm	NOs	789
	B199B	PPR Double Union Ball Valve 25mm	NOs	1076
	B199C	PPR Double Union Ball Valve 32mm	NOs	1784
	B199D	PPR Double Union Ball Valve 40mm	NOs	3670
	B199E	PPR Double Union Ball Valve 50mm	NOs	5505
	B199F	PPR Double Union Ball Valve 63mm	NOs	7859
	B200	Supply of PPR By Pass Bend confirming to IS 15801-2008 and DIN Standards 8077/8092		
	B200A	PPR By Pass Bend 20mm	NOs	73
	B200B	PPR By Pass Bend 25mm	NOs	78
	B200C	PPR By Pass Bend 32mm	NOs	179
	B200D	PPR By Pass Bend 40mm	NOs	303
2	B210	Flow control Valve 5LPM/10LPM/15LPM : Providing, & fixing Flow control valve using food grade materials SS 316 ball /1/2" [15mm] including cost of all materials, labour charges, HOM and testing complete as per of following specification.	NOs	255
3	H270	Ladder inside the container: Providing anodized aluminium ladder using 65mm x 32mm x 3.0mm 'C' section for ladder side channel x 25mm dia., fluted pipe for Rungs at 250mm c/c ladder fixed at an angle of 70 degrees to horizontal including necessary 25mm dia. G.I. shutters with necessary G.I. fasteners for bracing the ladders to the Tank walls to prevent buckling of the ladder with necessary (M-15) bed for embedding the ladder bottom complete	m	5100


Chief Engineer (Design)
 BWSSB
 9th Floor, Cauvery Bhavan,
 Road, Bengaluru - 560 009

SL NO	ITEM/NOTE ADDED	DESCRIPTION OF ITEM	UNIT	RATE i(n Rs.)
4	K210	Providing & fixing electro fusion saddle comply with BS EN12201 -3:2011, PN-12.5 rating and food grade raw material as per BS 6920 with material of construction PE 80 or PE 100 and colour of fitting - Blue/Black for water applications, EF tapping saddle is V-Regarding type. Designed to fuse at a fusion voltage of 40 volt AC. EF tapping saddle shall have moulded SS/Brass metal female threaded outlet. EF tapping saddle is fused by using a top loading piller type pressure exerting 1500N (150 kg apprx.) top load on EF saddle. Fusion time is 170 secs and cooling time is 10mins, Exerted pressure shoud be removed after completing the 10 mins cooling time. 63x20,75x20,90x20,110x20,140x20	NOs	350


 Chief Engineer (Design)
 BWSSB
 9th Floor, Cauvery Bhavan,
 K.G. Road, Bengaluru - 560 009