Comparison of various Plumbing Materials

Parameter	GI	PPR	cPVC	Composite	Copper	Stainless Steel	Explanation - Why Stainless Steel is better
Corrosion Resistance	1	5	5	5	4	5	Stainless Steel Grade 304 & higher Grades have better Corrosion Resistance. Even Copper has Green Corrosion which is harmful to health.
Hygiene / Food Grade	1	3	3	4	4	5	Food Grade. Recommended for Drinking Water, Food & Pharma Industry.
Maintenance Free	1	3	2	1	3	5	Leakage Resistant, Minimum replacement cost, Lowest Deposit buildup, Higher Pipe Strength, **enhances building life**, No outer painting required
Ease Of Installation	2	2	3	3	2	5	Easy & Fast installation ensures fool proof joints even by low skilled workers
High / Low Temprature Application	3	1	1	1	4	5	Retains High Strength at High temprature & does not become brittle in low temprature.
Earthquake / Fire Resistant	3	1	1	3	3	5	Can withstand shocks due to ductile nature & withstands High temprature. Very suitable for natural calamities / fire fighting equipment.
User Experience	5	1	1	3	5	5	Most satisfying User Experience
Pressure Rating / Joint Strength	3	2	1	1	3	5	Highest pressure rating of 25 BAR
Application in High Rise Buildings	3	2	2	2	4	5	Not affected by vibrations
Joining System	3	1	1	1	2	5	No Welding, No Solvent. Press Fit -foolproof & High Strength Joints.
Savings in Installation Time & Labour	1	4	4	5	1	5	Fast Installation means lower labour cost.
Life Cycle Cost	1	3	3	1	4	5	Lowest life cycle cost
Cost Index (GI=100%)	100	90	80	110	200	140	Lower than Copper, slightly higher than GI & Composite
Total 5 * Ratings	**1**	**1**	**1**	**2**	**1**	**12**	**Highest Rating**
Total Score	**27**	**28**	**27**	**30**	**39**	**60**	**Best available Material**

RATING 1= POOR ; 5 = BEST

J-PRESS Stainless Private Limited