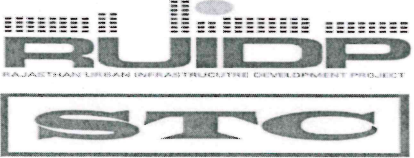
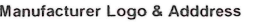
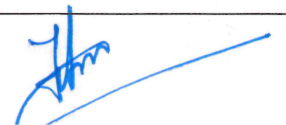


STANDARD QUALITY ASSURANCE PLAN

		Item Description : RCC Pipe NP2/NP3/NP4 (Vertical Cast)	Project :
		QAP NO: Std QAP/ 23-24/ WW-01	Client: RAJASTHAN URBAN INFRASTRUCTURE DEVELOPMENT PROJECT
		REV.NO: 00	Consultant: SHAH TECHNICAL CONSULTANT (STC)
		DATE:	Contractor:

Sr. No.	Component & Operation	Characteristics	Type of Check	Quatum of check	Reference Document	Acceptance Norms	Inspection			Remarks
							Manu	Client	TPI/Client/Consultant	
1	2	3	4	5	6	7				
A.Raw Material										
1	Cement OPC	Fineness	MTC	One per each consignment	IS 269 & IS: 4031	Saacific surface shall not be less 225 M2/KG	R	R	R	
		Standard Consistency	MTC	One per each consignment	IS 269 & IS: 4032		R	R	R	
		Setting time (Initial& Final)	MTC	One per each consignment	IS 269 & IS: 4033	Initial setting time shall be not less than 30 min. Final setting time shall be not more than 600 max	R	R	R	
		Compressive Strength	MTC	One per each consignment	IS 269 & IS: 4034	3 days (72+/-1 hr)= min 16n/mm2 , 7 days(168+/-2hr)=min 22N/mm2 ,28 days (672+/-4 hr)=min 33 N/mm2	R	R	R	MTC showing 28 days under testing shall be accepted only if it is passed in 7 days
		Soundness	MTC	One per each consignment	IS 269 & IS: 4035	Cement shall not have expansion more than 10mm & 0.82	R	R	R	
2	Coarse Aggregates	Sieve Analysis	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 383-2016	Table 7 (IS:383-2016)	P	R	R	
		Specific gravity	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 383-2016	2.1 to 3.2(Table 3,IS :383-2016)	P	R	R	
		Water absorption	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 383-2016	less than 5%(Table 3,IS :383-2016)	P	R	R	
3	Fine Aggregates	Sieve Analysis	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 383-2016	Table 9(IS:383-2016)	P	R	R	
		Specific gravity	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 2386-1963(Part-III)	2.1 to 3.2(Table 3,IS :383-2016)	P	R	R	
		Bulk density	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 2386-1963(Part-III)		P	R	R	
		Deleterious Material	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 383-2016	(Table 2,IS :383-2016)	P	R	R	
		Silt and clay	Lab test	Once per source per year or for every 500 cum, whichever is earlier	IS : 458-2003	not more than 3%	P	R	R	
4	Rubber Ring	Dimensions	Measurement	Once per Batch	IS: 5382-2018	CL. 3.6(IS:5382-2018) & ISI mark "SEWER" it should be mentioned	R	R	R	
		Physical Test	MTC	Once per Batch	IS: 5382-2018	CL. 3.7(IS:5382-2018)	R	R	R	
B.Reinforcement										
5	Physical & Mechanical property	Dimensions	MTC	Once per Batch	IS:432-1982(Part-II)& IS: 1786	Clause 5&6	R	R	R	
		Ultimate tensile stress	MTC	Once per Batch	IS:432-1982(Part-II)& IS: 1786	More than 570 N/SQMM	R	R	R	
		0.2% proof stress	MTC	Once per Batch	IS:432-1982(Part-II)& IS: 1786	More than 480 N/SQMM	R	R	R	
		Elongation	MTC	Once per Batch	IS:432-1982(Part-II)& IS: 1786	More than 7.5%	R	R	R	
		Reverse bend test	MTC	Once per Batch	IS:432-1982(Part-II)& IS: 1786	CL.8.3 (IS :432-1982 Part-II)	R	R	R	
6	Water	Physical and mechanical properties	Lab test report	Once per source	IS : 3025	CL.5.4(IS:456-2000)	P	R	R	
7	Admistures if used	Physical and mechanical properties	MTC	Once per source	IS : 9103-1999	Table 1&2(IS:9103-1999)	R	R	R	
C.PROCESS CONTROL										
8	Concrete Mix	Design (Mix Aggregate Size 20mm)	Visual	Once per source/per year	IS : 458-2021 Table 8	Min. Compressive strength 35N/SQMM	P	R	R	
		Design (Mix Aggregate Size 20mm)	Visual	Once per source/per year	IS : 458-2021 Table 8	Min. Compressive strength 35N/SQMM	P	R	R	
		Compressive Strength	Compressive Strength of cube	6 cube per day	IS : 458-2021 Table 8	35N/SQMM at 28 days	P	RW	RW	
	Reinforcement	Weight	Measurement	Each cage before casting	IS : 458-2021 Table 8	CL. 6.2 IS : 458-2021	P	R	R	
	Dimensions	Pipe Dia & Thickness	Measurement	one pipe per day	IS : 458-2021 Table 8	Table 15B	P	RW	RW	
	Curing	Proper Curing	Visual	each pipe	IS : 458-2021 Table 8	CL. 7.4 IS : 458-2021	P	RW	RW	
D.FINAL INSPECTON & TESTING:										
9	Final Cured pipe	Workmanship & Finish	Visual	100%	IS : 458-2021	CL.9 IS : 458-2021	P	W	W	
		Dimension test	Measurement	IS : 458-2021 Table 23	IS : 458-2021	Table 15B	P	W	W	
		Three edge bearing test	Strenth Test	IS : 458-2021 Table 23	IS : 458-2021	Table 8	P	W	W	
		Hydrostatic Test	Pressure Test	IS : 458-2021 Table 23	IS : 458-2021	As per latest IS code	P	W	W	
		Permeability Test	Cup & Tube	IS : 458-2021 Table 23	IS : 458-2021	As per latest IS code	P	R	R	
		Ultimate Load Test	Strenth Test	IS : 458-2021 Table 23	IS : 458-2021	Table 8	P	W	W	
		Marking	Visual	IS : 458-2021 Table 23	IS : 458-2021	CL.12 IS : 458-2021	P	W	W	



STANDARD QUALITY ASSURANCE PLAN										
		Manufacturer Logo & Address	Item Description : RCC Pipe NP2/NP3/NP4 (Vertical Cast)				Project :			
			QAP NO: Std QAP/ 23-24/ WW-01				Client: RAJASTHAN URBAN INFRASTRUCTURE DEVELOPMENT PROJECT			
			REV.NO: 00				Consultant: SHAH TECHNICAL CONSULTANT (STC)			
			DATE:				Contractor:			
Sr. No.	Component & Operation	Characteristics	Type of Check	Quatum of check	Reference Document	Acceptance Norms	Inspection			Remarks
							M	C	TPI/Client/	
E.SAMPLING & SEALING:										
10	Stenciling Stamp	Legibility Stamp	Visual	100%		ISI Mark	P	W	W	
		Marking	Visual	100%	Employer's Spec./IS:458	Project Town CL.12 of IS : 458-2021 Identification mak of Client (RUIDP)	P	W	W	
LEGENDS: M-MANUFACTURER C- CONTRACTOR TPI- THIRD PARTY INSPECTION P-PERFORM R- REVIEW W- WITNESS R/W-RANDOM WITNESS Note: 1. Copies of material report shall be given to inspection authority (IA) for scrutiny be fore commencement of inspection. 2. All measuring INSTRUMENTS AND TESTING EQUIPEMENTS. Calibrated periodically shall be submitted to IA on inspection time. 3. We hereby deciare that we abide by this quality assurance pan and follow the same in all stages of production. 4. Before despatch of items at casting yard same can be checked at random to confirm all QAP Requirements. 5. Manufacture shall provide all test certificates & internal & external test veports with supply as per QAP,							*Refer latest revisions of IS code for above			
Manufacturer / Vendor			Contractor			CONSULTANT /CLIENT / TPI				
Signature:			Signature:			Signature:				
Name:			Name:			Name:				

