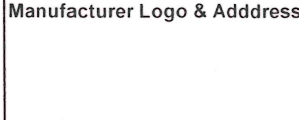


STANDARD QUALITY ASSURANCE PLAN

 		Item Description : SRFC (MD-10) RCC PRECAST CIRCULAR COVERS 1. 300 (ID) X 450 (OD) 2. 450 (ID) X 600 (OD) 3. 450 (ID) X 900 (OD)	Project :
		QAP NO: Std QAP/ 23-24/ WW-02	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	Format of Record	Inspection			Remarks
								Manu	Client	TPI/Client/Consultant	
1	2	3	4	5	6	7	8				
Raw Material											
1	Cement OPC	Physical & Chemical Properties	As per IS 269:2015	Every batch/ week no	IS 12592 : 2002 (Cause 4.1)	IS 269:2015 & IS: 4031	MTC	P	R	R	
2	Fine Aggregates	Physical Properties	As per IS 383 : 2016	One test for every 100 cu.mts,or else every change of source	IS 12592 : 2002 (Cause 4.2) & 383 : 2016	IS 12386 : 1963	internal test register for 100cum & External lab test for one year/source change	P	R	R	
3	Coarse Aggregate (Max. size of aggregate shall not exceed 20 mm)	Physical Properties	As per IS 383 : 2016	One test for every 100 cu.mts,or else every change of source	IS 12592 : 2002 (Cause 4.2) & 383 : 2016	IS 12386 : 1963	internal test register for 100cum & External lab test for one year/source change	P	R	R	
4	Reinforcement	Physical, Chemical & Mechanical Properties	IS 1786:2008 & IS : 2062	One for each batch of supply	IS 12592 : 2002 (Cause 4.4 & 4.5) & IS : 2062	IS 1786 : 2008 & IS : 2062	Manugacturer test Certificate	P	R	R	
5	Steel Fibre	Physical & Mechanical Properties	Manufacturer TC	Every batch	IS 12592 : 2002 (Cause 4.5)	IS 2592 : 2002 (Clause 4.5)	Manufacturer TC	P	R	R	
6	Water	Suitability of concrete	External lab test Report	Once in a year/ Change in source	Every Batch	IS 456-2000) (Clause 5.4)	External lab test Report	P	R	R	
Manufacturing Process											
7	Conrete (M40 Grade)	Cube Strength	Compressive Strength of Cubes	Every batch IS:516	IS 456 & IS :12592 : 2002 (Clause 4.3) IS :516	Min cement ciontent-360kg/m3 max,w/c Rato-0.40 Table 5-IS 456:2000 & IS:516	lab test report	P	R	R	
		Mix Design		One Mix Design	IS 456, 2000	As per 456:2000	Design Mix Report	P	R	R	
8	Curing	Curing	Visual / Register Check	Every batch	IS 12592:2002 (Clause 7.3)& IS 456	07-14 days water curing as mentioned in the IS Code . IS:456-2000	Curing Registre	P	R	R	
9	Reinforcement Quality & Arrangement	Design Considerations	Visual & Measurement	Random IS : 456	IS 12592:2002 (Clause 6,7,8&9)& IS 456	IS 12592:2002(Cause 6,7,8&9)& as per design IS 456-2000	Internal Test Reports	P	W	W	
10	Lifting Hooks	Dimensions	Visual	100 % / Randam	IS 12592:2002(Cause B)	12mm dia steel rod protect anti corrosive paint or hot dip galvanlsed	Manufacture TC	P	R/W	R/W	
11	Edge Protection & Finishing	Frame	Visual	100 % / Randam	IS 12592:2002(Cause 7.4.1)	1. Top outer edgr shall be protected by 25 mmx3mm mild steel elat as apart of the frame.2. Enough steel be welded to the inner surface of mild steel flat to connect in to the frame reinforcement & these shall be embedded in the concrete during casting 3. Exposed surface of mild steel flat shall be given suitable treatment with anticorrosive paint.	Internal Test Reports	P	W	W	



		Cover	Visual	100 % / Randam	IS 12592:2002(Clause 7.4.2)	1. edges of the cover shall be cst with aproective mild steel sheet of min. 2mm thickness. Around the periphery of covers. Width of flat 90mm. .2.The ring made out of mild steel flat shall be given anti corrosive treatment.	Internal Test Reports	P	W	W	
Final Inspection - Inspection Chember Covers & Frames.											
12	Dimensions & Visual check on manhole & rings	Dimensions & visual defects if any	Measurement	IS 12592:2002 Table-3	IS 12592:2002	IS 12592:2002 (Clause 5,9,1,9,2 Table 1 & Annex B)	Joint Inspection Reports	P	W	W	
13	Load test on covers	Breaking load	Applying load	IS 12592:2002 Table-3	IS 12592:2002 (Clause 9,3,Table 2 & Annex C)	Breaking load shall not be less than 200KN cover shall not show cracks in the course of the test and on top and bottom surface of cover after the test IS :12592(clause C-1,2,1 -Annexure C	Joint Inspection Reports	P	W	W	
14	Marking	Identificaton of class , size & source of Manufacture	Visual	100%	IS 12592:2002 Clause 14	Marking on cover 1. Manufacture name, month & year 2. Designation as HD-20-SFRC. 3. Identification Mark of client (RUIDP) Marking on manhole & ring & town name .		P	W	W	
LEGENDS: M-MANUFACTURER C- CONTRACTOR TPI- THIRD PARTY INSPECTION P-PERFORM *Refer latest revisions of IS code for above activities											
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 EQUIPEMTS. 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,											
Manufacturer / Vendor			Contractor			CONSULTANT /CLIENT / TPI					
Signature:			Signature:			Signature:					
Name:			Name:			Name:					