

## Utkal Alumina International Ltd, Rayagada, Orissa

Project - Control Room Building At  
Silo Area of Utkal Alumina

## ITP FOR CIVIL WORKS

CONTRACT NO

Page 2 of 8  
DOCUMENT NO

Sl. no.	Activity description	Check / Inspection	Acceptance Criteria	Verifying records	Responsibilities			Remarks
					Contractor	Tuv	Client	
1	MATERIAL:							
1.1	Cement	Visual inspection Compressive Strength Initial & final setting time Chemical composition Visual storage inspection	Free from moisture, solids, lumps etc. IS 269, 8112, 12269, 8041, 455, 1489, 8043, 12600, 12330, 12600 As per tech. spec. / IS 4082	PIN LEP-CMM-001-F-01 Manufactures test certificates to be submitted by the suppliers. In case of Apparent Defects in quality as decided by TUV/Client and /or storage period	P	W	RAN	
1.2	Coarse aggregates	Visual inspection Flakiness test Sieve analysis Impact value Absorption value Specific gravity	Clean, free from clay, vegetation etc., IS 383, IS 456 tech. spec. IS 383, IS 2386, IS 456, tech. spec. IS 383, IS 2386, IS 456, tech. spec.		P	W	RAN	
3.0	fine aggregate	Visual inspection Specific gravity	Clean, free from clay, vegetation etc. / IS 383, IS 456 tech. spec. IS 383, IS 2386, IS 456 tech. spec.		P	W	R	
1.4	Water	Visual inspection Test for presence of acid, alkali, organic materials etc. PH value	Clean, free from oil & other deleterious materials / IS 456, IS 3025, tech. spec. Generally potable water / IS 456, IS 3025 / tech. spec. Range- 6 to 8.5		P	W	RAN	
1.5	Admixture for concrete	Grade of admixture	As per "Manufacturer's Data Sheet"		P	W	R	
1.6	Reinforcement steel	Visual inspection Chemical analysis test % Elongation test	Uniform, free from loose rust, loose mill scale, coats of oil & Paints. As per tech. spec. / IS 432, 1139, 1786		P	W	RAN	
1.7	Brick	Visual inspection/striking with finger Water absorption Compressive strength	Well burnt, uniform shape & colour, metallic sound/tech. spec. IS 1077 / tech. spec. IS 3495 & IS 5454		P	W	R	
1.8	Grouting material	Type	As per spec.		P	W	R	
3.0	EARTH WORKS							
3.1	Survey	Calibration of Total Station, Level Machine, Theodolite	As per Accuracy mentioned in Product Data Sheet		P	R	R	
3.2	Earth Work (excavation)	Check layout, pre & post level, dimensions & depth safety considerations	As per drg. / tech. spec. / site conditions As per site conditions, tech. spec. / IS 3764		P	W	R	
3.3	Earth / Sand (filling)	Visual inspection Field dry density/ compaction factor / relative density)	Free from organic material, Tech. spec. / IS 2720		P	RAN	RAN	
4.0	FORM WORKS							
4.1	Staging	Visual inspection Verticality of Props Fixity of nails, clamps, bolts	Tech. spec. Tech. spec. Tech. spec.		P	W	RAN	
4.2	Shuttering	Visual inspection for alignment, verticality & fixity of support Level checking Check for insert plates (lugs to be made of MS), anchor bolts etc.	Tech. spec. / drawings As per drg. / tech. spec. As per drg.		P	W	RAN	
4.3	De-Shuttering	Stripping time for bottom & sides	Tech. spec. / IS 456 / Pour card		P	W	RAN	

# ITP FOR CIVIL WORKS

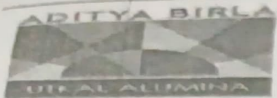
CONTRACT NO

DOCUMENT NO

Page 3 of 9

Sl. no.	Activity description	Check / Inspection	Acceptance Criteria	Verifying records	Responsibilities			Remarks
					Contractor	Tuv	Client	
5.0	REINFORCEMENT WORK							
5.1	Bar bending	Prepare & check bar bending schedule	Tech. spec. / IS 456 / IS 2502 / drawings		P	R	R	
		Linearity, shape, size & no. of bars	Bar bending schedule / tech. spec./ drawings/ IS 2502		P	RAN	RAN	
5.2	Bar binding	Gauge & type of binding Wire	As per tech. spec.		P	R	R	
		Size & mix of cover block	As per tech. spec. / drawing		P	W	RAN	
		Location & no. of bars	Drawings / bar bending schedule		P	W	RAN	
		Tying of bars	Proper tying as per IS 2502		P	W	RAN	
6.0	CONCRETING WORK							
6.1	Concrete Works ( other than ready mix)	Design of mix	IS 10262 / IS 456 / tech. spec.		P	W	RAN	
		Inspection of ingredients			P	W	RAN	
6.2	Concrete Works ( ready mix)	Design of mix	IS 10262 / IS456 / tech. spec.		P	W	RAN	
		Quality of ingredients	IS 10262 / IS456 / tech. spec.		P	W	RAN	
6.3	Concrete Batching	Batching plant calibration	IS 456		P	W	R	
		Slump cone test	Mix design / IS 456 / IS10262 / tech. spec.		P	W	RAN	
		Compressive strength test samples	Cube moulds to be clean & smooth. IS 1199 / IS 516 / IS 456 / tech. spec.		P	W	RAN	
		Dimensional and alignment check before concreting	As per drawing / tech. spec.		P	H	RAN	
		Construction joint	Pre determined location as per site condition / tech. spec.		P	W	RAN	
		Curing	Concrete surface to remain moist all the time. IS 456 / tech. spec.		P	W	RAN	
6.5	Post Concreting	Visual inspection after de-shuttering	Smooth surface, free of honey combs IS 456 / tech. spec.		P	W	RAN	
				P	RAN	RAN		
7.0	BRICK WORK	Soaking of bricks	No air bubble to come out IS 2212 / tech. spec.		P	RAN	RAN	
		Visual inspection	Surface shall be clean, moist, properly roughened. tech. spec.		P	RAN	RAN	
		Scaffolding	Proper, safe tech. spec. / IS 2212 / IS 3696 / IS 4014		P	RAN	RAN	
		Thickness & level check	Variation within 15mm tech. spec./ IS 2212		P	RAN	RAN	
		Alignment / verticality check	Local depression / Protrusion Within 3 mm IS 2212 / tech. spec.		P	RAN	RAN	
		Curing	As per tech. spec. / IS 2212		P	RAN	RAN	
8.0	PLASTERING	Visual inspection	Surface shall be clean, moist, Properly roughened. tech. spec.		P	RAN	RAN	
		Thickness check	As per drawing/tech. spec.		P	RAN	RAN	
		Scaffolding	As per drawing / tech. spec. / IS 2250 / IS3696 / IS. 4014.		P	RAN	RAN	
		Mix ratio / mixing	As per drawing / tech. spec. / IS 2250		P	RAN	RAN	
		Linearity & verticality	Within 3mm variation tech. spec.		P	RAN	RAN	
		Curing	As per tech. spec. / IS 2212		P	RAN	RAN	
		Check cleaning of pocket, shuttering thickness etc.	As per drawing		P	RAN	RAN	
9.0	GROUTING				P	RAN	RAN	
10.0	TILES	Check proper line and levelling, joints, attachment, thickness etc	As per drawing /IS13712-1993		P	RAN	RAN	
11.0	PIPE LAYING	Check joints ,alignment, proper bending ,dia etc	As per drawing		P	RAN	RAN	
12.0	Admixture	mix ratio / mixing as per proper design.	As per drawing /IS 9103		P	W	RAN	
13.0	FALSE CEILING	proper fixing, measurement, alignment, area covering etc	As per drawing /IS 6452 :Part 1		P	RAN	P	
14.0	DOOR & WINDOW	Visual inspection for alignment, verticality & fixity of support.	As per architect drawing / IS4913-1968		P	RAN	P	
		Linearity, shape, size.	As per architect aluminium structure HSN -7610		P	RAN	P	





## ITP FOR CIVIL WORKS

CONTRACT NO

DOCUMENT NO

Page 4 of 9

Sl. no.	Activity description	Check / Inspection	Acceptance Criteria	Verifying records	Responsibilities			Remarks
					Contractor	Tuv	Client	
		quality of materials	As per drawing		P	W	RAN	
15.0	PAINT	Visual inspection for proper laying , thickness , mixing , glazing	As per architect drawing /IS2395-part 1		p	RAN	RAN	
		Quality of materials , used any other mix materials enclose MTC.	As per architect drawing /IS2395-part 1		p	RAN	RAN	
16.0	HANDING OVER	Check for handing over	As per drg. / spec.		P	RAN	RAN	

Note: Quantum of inspection shall be finalized in consultation with Client QC.

## Legend:

- H - Hold point (further steps shall commence only after clearance from Tuv/Client - as applicable)
- R - Review & approve
- RAN - Random witness
- P - Perform
- W - Witness & approve

COMPANY	SRIRAM CONSTRUCTION	TUV	CLIENT
SIGNATURE			
NAME	Jayanta Kumar Sishak	R. R. Prashan	W. H. Prashan
DATE	22/08/2023	22/08/2023	