

15 MLD STP AT UNNAO

CHECKLIST OF BALANCE WORKS

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S. No.	Unit /Location	Items / Description of Work	Supply	Installation / Construction	Commissioning / Testing / Inspection	Remarks / Balance Works
A	15 MLD STP					
A.1	Receiving Chamber					
1		Automatic systems for all gates	Completed	Completed	Pending	
2		Sediment/Silt removal work	NA	Not Started	Pending	
A.2	Mechanical & Manual Coarse screen chamber					
1		Mechanical coarse screen, 1 No.	Completed	Completed	Pending	
2		Manual coarse screen,1 No.	Completed	Completed	Pending	
3		Conveyor belt & chute Arrangement, 1 No.	Completed	Completed	Pending	
4		Wheeled trolley, 1 No.	Completed	Completed	NA	
5		Sluice gate, 6 Nos	Completed	Completed	Pending	
6		Cable	Completed	Completed	Completed	
7		Cable tray	Completed	Completed	Completed	
8		Ultra Differetail level transmitter -1 Lot	Completed	Pending	Pending	
A.3	Raw Sewage sump & Main Pump station (MPS)					
1		Raw Sewage pumps, 4 Nos.	Completed	Completed	Pending	
2		Sluice gate, 1 Nos.	Completed	Completed	Pending	
3		Non return valve (NRV), 4 Nos.	Completed	Completed	Completed	
4		Knife gate valves, 4 Nos	Completed	Completed	Completed	
5		Isolation valve, 750mm, 2 Nos.	Completed	Completed	Pending	
6		Pipe reducers,400X 250, 4 Nos.	Pending	Pending	Pending	
7		Blind flange(DI) ,750 mm , 1 Nos.	Completed	Completed	Completed	
8		EOT hoist, 1 No.	Completed	Pending	Pending	
9		Monorail beam, 1 No.	Completed	Completed	Completed	
10		Pressure indicator ,4 Nos	Completed	Pending	Pending	
11		Valves for pressure indicator ,8 Nos	Completed	Pending	Pending	
12		Ultrasonic level sensor-1 Nos.	Completed	Completed	Pending	
13		Inlet flow meter -1 Nos.	Completed	Work in Progress	Pending	Installation not done properly
14		Inlet flow meter Chamber	NA	Pending	Pending	

15	Water quality Anylzer -1nos.	Completed	Pending	Pending	
	Internal electrification, earthing,	Completed	Work in Progress	Pending	
16	LCS Panel-4Nos.	Completed	Completed	Pending	
A.4	Primary Treatment Unit (PTU)				
1	Mechanical fine screen, 2 Nos.	Completed	Completed	Pending	
2	Manual fine screen, 1 No.	Completed	Completed	Pending	
3	Sluice gate, 9 Nos	Completed	Completed	Pending	
4	Sluice Gate valves, 3 Nos.	Completed	Completed	Pending	
5	Conveyor belt & chute Arrangement, 1 No.	Completed	Completed	Pending	
6	Grit Mechanism, (2w+1S) Nos	Completed	Completed	Pending	
7	Organic Pumps , 2 Nos	Completed	Completed	Pending	
8	Screw Classifier , 2 Nos	Completed	Completed	Pending	
9	torque Switch-2Nos.	Pending	Pending	Pending	
10	Wheeled trolley, 2 Nos.	Completed	Pending	Pending	
11	Automatic systems for all gates	Completed	Completed	Pending	
12	Cable	Completed	Completed	Pending	
13	Cable tray	Completed	Completed	Pending	
14	Differentail level transmitter -1 lot .	Completed	Work in Progress	Pending	
15	LPBS-6 Nos.	Completed	Completed	Pending	Cable dressing work pending
16	Open channel flow meter-1 Nos.	Completed	Work in Progress	Pending	
A.5	Sequential Batch Reactor (SBR)				
1	Mechanical sluice Gate, 2 Nos	Completed	Completed	Pending	
2	Decanter , 2 Nos.	Completed	Completed	Pending	
3	Diffuser , 688 Nos.	Completed	Completed	Completed	
4	Return activated sludge pumps (RAS), (2w+1S)Nos	Completed	Completed	Pending	
5	Surplus activated sludge pumps (SAS), (2w+1S)Nos	Completed	Completed	Pending	
6	Selector Zone diffuser	Completed	Completed	Completed	
7	Ball valves , 14 Nos	Completed	Completed	Completed	
8	Butterfly valves (BFV), 4 Nos	Completed	Completed	Completed	

9	Non return valve (NRV), 4 Nos.	Completed	Completed	Completed	
10	Manual chain pulley block ,2 Nos	Completed	Completed	Pending	
11	Solenoid (SOV), 2 Nos	Completed	Pending	Pending	
12	Automatic systems for all gates	Completed	Completed	Pending	
13	LPBS-2Nos.	Completed	Completed	Pending	Cable dressing work pending
14	Hydrostatic level transducer- 2Nos.	Completed	Completed	Pending	
15	DO -16 Nos.	Pending	Pending	Pending	To be installed as per CA
16	LCS Panel-4Nos.	Completed	Completed	Pending	
A.6 Air Blower Unit (For SBR)					
1	Air Blowers,3 Nos	Completed	Completed	Pending	
2	Butterfly Valves, 3 Nos	Completed	Completed	Completed	
3	Non return Valves,3 Nos	Completed	Completed	Completed	
4	Ball Valves, 3 Nos	Completed	Completed	Pending	
5	EOT hoist, 1 No.	Completed	Completed	Pending	
6	Pressure indicator, 3 Nos	Completed	Pending	Pending	
7	Acoustic hood ,3 Nos	Completed	Completed	NA	
8	LPBS-3 nos.	Completed	Completed	Pending	
9	Exhaust fan, internal electrification, earthing,	Completed	Completed	Pending	
A.7 Sludge Thickener Unit					
1	Sludge Thickener , 1 No.	Completed	Completed	Pending	
2	Knife gate Valve (KGV), 2 Nos	Completed	Completed	Completed	
3	Butterfly Valve (BFV),1 No.	Completed	Completed	Completed	
4	Ball Valves, 1 No.	Completed	Pending	Pending	
5	Torque switch , 1 Nos	Pending	Pending	Pending	
6	LPBS-1 Nos.	Completed	Completed	Pending	Cable dressing work pending
A.8 Supernatant Sump					
1	Supernatant pumps, 4 Nos	Completed	Completed	Pending	

2	Agitator, 1 Nos	Completed	Completed	Pending
3	Non return Valves, 4Nos	Completed	Completed	Completed
4	Butterfly Valves, 2 Nos	Completed	Completed	Completed
5	Ultrasonic Level transmitter -1 Nos.	Completed	Completed	Pending
6	LPBS-5 Nos.	Completed	Completed	Pending
A.9 Sludge Sump				
1	Sludge sump agitator , 1 No.	Completed	Pending	Pending
2	Overflow line	Completed	Pending	Pending
3	Level transmitter	Completed	Completed	Pending
A.10 Centrifuge Feed pump Unit				
1	Centrifuge Feed pumps, 2 Nos	Completed	Pending	Pending
2	Knife Gate Valve (KGV), 5 Nos	Completed	Completed	Pending
3	Non Return Valves, 2 Nos	Completed	Completed	Pending
4	Ball Valves, 8 Nos.	Completed	Pending	Pending
5	pressure indicator ,2 Nos	Pending	Pending	Pending
A.11 Centrifuge Building				
1	Centrifuge, 2 Nos	Completed	Completed	Pending
2	Knife gate Valve (KGV), 2 Nos	Completed	Completed	Pending
3	Ball Valves, 3 Nos.	Completed	Completed	Pending
4	Centrifuge chute Arrangement, 2 Nos	Completed	Completed	NA
5	EOT hoist, 1 No.	Completed	Completed	Pending
6	Monorail beam, 1 No.	Completed	Completed	Pending
7	LPBS-9 nos	Completed	Completed	Pending
8	level transmitter in agitator-2nos.	Completed	Work in Progress	Pending
9	Cable	Completed	Work in Progress	Pending
10	Cable tray	Completed	Work in Progress	Pending
11	LCS Panel-2 nos.	Completed	Completed	Pending
12	Exhaust fan, internal electrification, earthing,	Completed	Work in Progress	Pending

A.12 Poly Dosing System

1	Dewatering polymer agitator , 2 Nos	Completed	Completed	Pending
2	Polymer dosing pumps, 2 Nos	Completed	Completed	Pending
3	Ball Valves, 06 Nos.	Completed	Pending	Pending
4	Overflow & drain line work	Completed	Pending	Pending
5	Non return Valves, 4 Nos	Completed	Pending	Pending
6	Pressure indicator, 2 Nos	Completed	Pending	Pending
7	Level switch, 2 Nos	Completed	Pending	Pending
8	Polymer material stock	Completed	Completed	NA

A.13 Chlorination Building

1	EOT hoist, 1 No.	Completed	Completed	Pending
2	Monorail beam, 1 No.	Completed	Completed	Pending
3	Chlorinators, 2 Nos	Completed	Completed	Pending
4	Chlorine Booster Pumps, 2 Nos	Completed	Completed	Pending
5	Recirculation pumps ,2 Nos.	Completed	Completed	Work in Progress
6	Leak absorbaton system,1 Nos	Completed	Completed	Work in Progress
7	Air Blowers, 2 Nos	Completed	Completed	Work in Progress
8	Valves, 1 lot	Completed	Completed	Pending
9	Pressure gauges, 7 Nos	Completed	Pending	Pending

A.14 Chlorine contact Tank (CCT)

1	Level switch, 1 Nos	Completed	Work in Progress	Pending
2	Utility water pumps, 2 Nos	Completed	Pending	Pending
3	Butterfly Valve (BFV), 4 Nos.	Pending	Pending	Pending
4	Non return Valves, 2 Nos	Pending	Pending	Pending
5	Pressure gauges, 2 Nos	Pending	Pending	Pending
6	Panel, 1 Lot	Completed	Completed	Pending
7	LPBS, 2 nos.	Completed	Pending	Pending
8	Level transmitter, 1 nos.	Completed	Work in Progress	Pending
9	Exhaust fan, internal electrification, earthing,	Completed	Work in Progress	Pending

10	Water quality Anylzer, 1nos.	Completed	Pending	Pending	
11	Open channel flow meter, 1 Nos.	Completed	Work in Progress	Pending	
12	Conductivity level switch, 1 Nos	Completed	Pending	Pending	
13	Chlorine leak detector, 1 Nos.	Completed	Pending	Pending	
A.15 PLC / SCADA					
1	SBR PANEL	Completed	Work in Progress	Pending	Cable termination work pending
2	BOP Panel	Completed	Work in Progress	Pending	Cable termination work pending
3	Cable	Completed	Work in Progress	Pending	Cable termination work pending
4	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Work in Progress	Pending	
A.16 VFD Panel room					
1	VFD PANEL-3 nos.	Completed	Completed	Pending	
2	Exhaust fan, internal electrification, earthing,	Completed	Completed	Pending	
A.17 Electrical & Related Works					
1	Transformer-2 nos	Completed	Completed	Pending	
2	DG set-1 nos.	Completed	Completed	Pending	
3	LPBS-lots	Completed	Completed	Pending	
4	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Work in Progress	Pending	
5	Indoor & Outdoor Lighting	Completed	Pending	Pending	
6	LT Panel-1Lot	Completed	Completed	Pending	
7	Metering Room	Completed	Completed	Completed	
A.18 Civil work					
1	I&D, Structure, 3.2 km	NA	Pending	Pending	Finishing and painting works, Railing work and fencing are pending
2	Sewer System	NA	Work in Progress	Pending	All 3.2 km Cleaning and hydro testing works are due. Cleaning of sewer line pending

3	Manholes, 42 Nos	NA	Work in Progress	Pending	Only 4 Nos. Manholes (Manhole ID - 4,116, 34, 28,29) cleaned out of 42. Leakage repair pending
4	MPS	NA	Pending	Pending	Silt Cleaning, finishing work in pending
5	PTU	NA	Pending	Pending	Finishing, painting work pending
6	Admin Building	NA	Work in Progress	Pending	External painting work in progress, Lab setup pending
7	SBR Basins	NA	Completed	Pending	Leakage correction, Finishing, painting, hand railing Pending.
8	CCT,Chlorination room	NA	Completed	Pending	Stair-hand rail, and painting pending
9	Air Blower Building	NA	Completed	Pending	paint works pending
10	Sludge Thickener	NA	Completed	Pending	Finishing and Stair Railing work pending
11	Supernatant Sump	NA	Completed	Pending	Stair railing and finishing works pending
12	Centrifuge Building	NA		Pending	Final coat paint work pending
13	Transformer Yard	NA	Completed	Pending	Gravel filling work pending
14	DG Area	NA	Completed	Pending	DG platform was to be increased 1m for O&M Pending
15	Parshall Flumes	NA	Completed	Pending	Ultrasonic flow meter installation pending
16	VFD Panel Room	NA	Completed	Pending	Paint works and railing pending
17	Staff Quarter	NA	Completed	Pending	Final coat painting work pending
18	Guard Room	NA	Completed	Pending	Finishing work pending Painting work pending
19	Effluent Chamber	NA	Completed	Pending	Finishing work pending
D.19 Civil & Site Improvement Works					
1	Service water pumps & plumbing all units	Completed	Work in Progress	Pending	Fresh water connection to all overhead tank service pending
2	Tiling / Flooring at all Buildings	NA	Completed	Pending	
3	All Buildings Roof rainwater drains, Roof treatment, Plinth protection	NA	Pending	Pending	Pinth protection pending all building, KRMPL not submit drawing for Plinth protection
4	Indoor & Outdoor Painting	NA	Work in Progress	Pending	All structure outdoor paint pending
5	Doors, Windows, Shutters, etc.	Pending	Work in Progress	Pending	Admin shutter door pending
6	Stormwater drains	NA	Not Started	Pending	KRMPL not submit drawing for stormwater drains
7	Backfilling, Grading	NA	Work in Progress	Pending	Approx 13992 soil filling out of 30000 cum

8	Landscaping	NA	Pending	Pending	No work activity started
9	Entry Road	NA	Pending	Pending	No work activity started
10	Internal Pathways / Access Roads	NA	Pending	Pending	No work activity started
D.20 Site Safety & Security					
1	Guard Room	NA	Completed	Pending	Gate of installation pending Raitining wall 50 MTR, 30 boundery wall pending Work in progress Supply Pending Supply Pending
2	Entrance Gate	Pending	Pending	Pending	
3	Boundary Wall	NA	Work in Progress	Pending	
4	Handrailing	NA	Work in Progress	Pending	Work in progress
5	Fire fighting extinguishers	Completed	Work in Progress	Pending	Supply Pending
6	Nomenclature on Units / Buildings, Signboards, Site Plan, Project Banner, Site Name Banner, etc.	Completed	Pending	Pending	Supply Pending
7	Site Surveylance / CCTV	Pending	Pending	Pending	RFI pending
8	Safety shower at Chlorination unit	Completed	Completed	Pending	RFI pending
9	Logbooks - Attendance Register, Visitor logs, RSPS logs, DG logs, Maintenance logs, etc.	Pending	Work in Progress	Pending	Visitor logs book maintenance in progress and other logs book not maintenance
D.21 Miscellaneous					
1	Lab Setup	Completed	Pending	Pending	Lab setup pending
2	Permanent Gasket	Pending	Pending	Pending	Hydrotesting work pending in all units
3	Hydrotest for all pumps, air blower, centrifuge , chlorinations etc. discharge lines	Pending	Pending	Pending	
4	Hydrotest for all water retaining units	NA	NA	Pending	
5	Pipe support for all units	Pending	Pending	Pending	NA
6	Stud bolt & Nuts at all units	Pending	Pending	NA	