

SUNDAR NAGAR IPS

Date of Issue: 01-12-2022

CHECKLIST OF BALANCE WORKS

Issued by: STC, Kanpur

S. No.	Unit /Location	Items / Description of Work	Supply	Installation / Construction	Commissioning / Testing / Inspection	Remarks / Balance Works
A	Sundar Nagar IPS					
A.1	Rising main					
1		ARV, 3 Nos.	Completed	Pending	Pending	
2		Chambers for ARV, 3 Nos.	NA	Not Started	Pending	
3		Sluice Gates, 3 Nos.	Completed	Pending	Pending	
4		FIT-401 & 501 (Flow Indicator Transmitter)	Pending	Pending	Pending	
5		Hydro test should be conducted as per CA	NA	NA	Pending	
6		Road Restoration	NA	Pending	Pending	
A.2	Coarse screen channel (Manual)					
1		Manual Bar screen, 1 No.	Completed	Pending	Pending	
2		Sluice gate, 2 Nos	Completed	Pending	Pending	
3		Access for Screening & Grit removal	Pending	Pending	Pending	
A.3	Coarse screen channel (Mechanical)					
1		Mechanical coarse screen, 1 No.	Completed	Pending	Pending	
2		Conveyor belt & chute Arrangement, 1 No.	Pending	Pending	Pending	
3		Wheeled trolley, 2 No.	Pending	Pending	Pending	
4		Sluice gate, 2 Nos	Pending	Pending	Pending	
5		Cable	Completed	Work in Progress	Pending	
6		Cable tray	Completed	Work in Progress	Pending	
		Differetail level transmitter -1 Lots	Completed	Pending	Pending	
		Automation work of all gate	Completed	Pending	Pending	
A.4	Raw Sewage Pump House (RSPH)					
1		Raw Sewage pumps, 5 Nos.	Completed	Completed	Pending	
2		Sluice gate valves, 5 Nos.	Completed	Completed	Pending	
3		Non return valve (NRV), 5 Nos.	Completed	Completed	Pending	
4		Isolation valve, 800mm, 1 No.	Pending	Pending	Pending	
5		Pipe reducers, 4 Nos.	Pending	Pending	Pending	
6		EOT hoist, 1 No.	Completed	Work in Progress	Pending	
7		Monorail beam, 1 No.	Completed	Completed	NA	

8	Ultrasonic level sensor, 1 Nos.	Completed	Pending	Pending	
9	Inlet flow meter	Completed	Pending	Pending	
10	Inlet flow meter Chamber	NA	Pending	Pending	
	Pressure transducer, 1 lot	Completed	Pending	Pending	
11	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Work In Progress	Pending	
A.5 Electrical & Related Works					
1	Transformer, 1 Nos.	Completed	Work In Progress	Pending	
2	DG set, 1 Nos.	Completed	Work In Progress	Pending	
3	LPBS, 5 Nos.	Completed	Pending	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, 1 lot	Completed	Work In Progress	Pending	
7	Metering Room	Completed	Work In Progress	Pending	
8	KESCO Power Connection	NA	Pending	Pending	Pending by UPJN
A.6 Civil & Site Improvement Works					
1	Screen channel	NA	Work In Progress	Work In Progress	Grading and finishing work pending
2	Sump	NA	Pending	Pending	Painting & finishing work pending
3	Panel room Cum office room	NA	Work In Progress	Pending	Door window and putty work in progress
4	Overhead service tank	NA	Not Started	Pending	
5	Service water pumps & plumbing	NA	Not Started	Pending	
6	Tiling / Flooring at all Buildings	NA	Not Started	Pending	
7	All Buildings Roof rainwater drains, Roof treatment, Plinth protection	NA	Not Started	Pending	
8	Indoor & Outdoor Painting	NA	Not Started	Pending	
9	Doors, Windows, Shutters, etc.	NA	Work In Progress	Pending	
10	Stormwater drains	NA	Not Started	Pending	
11	Backfilling, Grading	NA	Not Started	Pending	
12	Landscaping	NA	Not Started	Pending	
13	Entry Road	NA	Not Started	Pending	
14	Internal Pathways / Access Roads	NA	Not Started	Pending	

A.7 Site Safety & Security

1	Guard Room	NA	Work In Progress	Pending	Paster & finshing work pending
2	Entrance Gate	NA	Not Started	Pending	
3	Boundary Wall	NA	Work In Progress	Pending	Brick work & concrete work pending
4	Handrailing	Pending	Not Started	Pending	
5	Fire fighting extinguishers	Pending	Pending	Pending	
6	Nomenclature on Units / Buildings, Signboards, Site Plan, Project Banner, Site Name Banner, etc.	Pending	Pending	Pending	
7	Site Surveylance / CCTV	Pending	Pending	Pending	
8	Logbooks - Attendance Register, Visitor logs, RSPS logs, DG logs, Maintenance logs, etc.	Pending	Not Started	NA	

A.7 Miscelleneous

1	Gaskets as per IS Standards	Pending	Pending	Pending	
2	Hydrotest for all pumps discharge lines	NA	NA	Pending	
3	Hydrotest for all water retaining units	NA	NA	Pending	
4	Pipe support for all units	Pending	Pending	NA	
5	Mark TWL all structure	NA	Not Started	NA	
6	800mm dia sewer line conection pending in Receiving chamber	NA	Not Started	Pending	

ICI NALLAH IPS
CHECKLIST OF BALANCE WORKS

Date of Issue: 01-12-2022

Issued by: STC, Kanpur

S. No.	Unit /Location	Items / Description of Work	Supply	Installation / Construction	Commissioning / Testing / Inspection	Remarks / Balance Works
B	ICI Nallah IPS					
B.1	Rising main					
1		ARV, 3 Nos.	Completed	Pending	Pending	
2		Chambers for ARV, 12 Nos.	NA	Not Started	Pending	
3		Sluice Gates, 3 Nos.	Completed	Completed	Pending	
4		FIT-401 & 501 (Flow Indicator Transmitter)				
5		Hydro test should be conducted as per CA	NA	Not Started	Pending	
6		Road Restoration	NA	Work in Progress	NA	
B.2	Coarse screen channel (Manual)					
1		Manual Bar screen, 1 No.	Completed	Completed	Pending	
2		Sluice gate, 2 Nos	Completed	Completed	Pending	
3		Access for Screening & Grit removal	NA	Not Started	NA	
B.3	Coarse screen channel (Mechanical)					
1		Mechanical coarse screen, 1 No.	Completed	Completed	Pending	
2		Conveyor belt & chute Arrangement, 1 No.	Completed	Completed	Pending	
3		Wheeled trolley, 2 No.	Pending	Pending	NA	
4		Sluice gate, 2 Nos	Completed	Completed	Pending	
5		Cable	Completed	Work In Progress	Pending	
6		Cable tray	Completed	Work In Progress	Pending	
7		Differential level transmitter-1 lot	Completed	Pending	Pending	
8		Automation work of all gate	Completed	Pending	Pending	
B.4	Raw Sewage Pump House (RSPH)					
1		Raw Sewage pumps, 5 Nos.	Completed	Completed	Pending	
2		Sluice gate valves, 5 Nos.	Completed	Completed	Pending	
3		Non return valve (NRV), 5 Nos.	Completed	Completed	Pending	
4		Isolation valve, 800mm, 1 No.	Pending	Pending	Pending	
5		Pipe reducers, 4 Nos.	Completed	Completed	Pending	
6		EOT hoist, 1 No.	Completed	Completed	Pending	
7		Monorail beam, 1 No.	Completed	Completed	Pending	

8	Ultrasonic level sensor-1nos	Completed	Pending	Pending	
9	Inlet flow meter	Completed	Pending	Pending	
10	Inlet flow meter Chamber	NA	Work In Progress	NA	Brick chamber to be demolished and rebuilt with RCC
11	pressure transducer-1 lot	Completed	Pending	Pending	
12	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Work In Progress	Pending	
B.5 Electrical & Related Works					
1	Transformer, 1 No	Completed	Work In Progress	Pending	
2	DG set, 1 No.	Completed	Completed	Pending	
3	LPBS, 5 Nos	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, 1 lot	Completed	Work In Progress	Pending	
7	Metering Room	Completed	Work In Progress	Pending	
B.6 Civil & Site Improvement Works					
1	Panel room cum staff quarter	NA	Work In Progress	NA	
2	Overhead service tank	NA	Not Started	NA	
3	Service water pumps & plumbing	NA	Not Started	NA	
4	Tiling / Flooring at all Buildings	NA	Not Started	NA	
5	All Buildings Roof rainwater drains, Roof treatment, Plinth protection	NA	Not Started	NA	
6	Indoor & Outdoor Painting	NA	Work In Progress	NA	
7	Doors, Windows, Shutters, etc.	NA	Work In Progress	NA	
9	Stormwater drains	NA	Not Started	NA	
10	Backfilling, Grading	NA	Not Started	NA	
11	Landscaping	NA	Not Started	NA	
12	Entry Road	NA	Work In Progress	NA	
13	Internal Pathways / Access Roads	NA	Work In Progress	NA	
B.7 Site Safety & Security					
1	Guard Room	NA	Work In Progress	NA	
2	Entrance Gate	NA	Pending	NA	

3	Boundary Wall	NA	Work In Progress	NA
4	Handrailing	NA	Work In Progress	NA
5	Fire fighting extinguishers	Completed	Work In Progress	Pending
6	Nomenclature on Units / Buildings, Signboards, Site Plan, Project Banner, Site Name Banner, etc.	Pending	Pending	NA
7	Site Surveyance / CCTV	Pending	Pending	Pending
8	Logbooks - Attendance Register, Visitor logs, RSPS logs, DG logs, Maintenance logs, etc.	Pending	Pending	NA

B.7 Miscellaneous

1	Gaskets as per IS Standards	Pending	Pending	Pending
2	Hydrotest for all pumps discharge lines	NA	NA	Pending
3	Hydrotest for all water retaining units	NA	NA	Pending
4	Pipe support for all units	Pending	Pending	NA

THERMAL NALLAH A I&D
CHECKLIST OF BALANCE WORKS

Date of Issue: 01-12-2022

Issued by: STC, Kanpur

S. No.	Unit /Location	Items / Description of Work	Supply	Installation / Construction	Commissioning / Testing / Inspection	Remarks / Balance Works
C	Thermal Nallah A I&D					
C.1	Trunk Sewer to 30 MLD STP					
1		Sluice Gates, 3 Nos.	Completed	Completed	Pending	
3		Hydro test should be conducted as per CA	Pending	Pending	Pending	
4		Road Restoration				
C.2	Coarse screen channel (Manual)					
1		Manual Bar screen, 1 No.	Completed	Completed	Pending	
2		Sluice gate, 2 Nos	Completed	Completed	Pending	
3		Access for Screening & Grit removal	NA	Not Started	Pending	
C.3	Electrical & Related Works					
1		Outdoor Lighting	Pending	Pending	Pending	
C.4	Civil & Site Improvement Works					
1		Indoor & Outdoor Painting	NA	Completed	NA	
2		Stormwater drains	NA		NA	
3		Backfilling, Grading	NA	Work In Progress	NA	
4		Landscaping	NA	Work In Progress	NA	
5		Internal Pathways / Access Roads	NA	Pending	NA	
C.5	Site Safety & Security					
1		Guard /Labour Room /Washroom	NA	Not Started	NA	
2		Handrailing	NA	Completed	NA	
3		Nomenclature on Units / Buildings, Signboards, Site Plan, Project Banner, Site Name Banner, etc.	Pending	Pending	Pending	
4		Site Surveyance / CCTV	Pending	Pending	Pending	
5		Logbooks - Attendance Register, Visitor logs, Maintenance logs, etc.	NA	Pending	NA	
C.6	Miscellaneous					
1		Outdoor Painting	NA	Not Started	NA	
2		Hydrotest for all water retaining units	NA	NA	Pending	

30 MLD STP AT PANKHA
CHECKLIST OF BALANCE WORKS

Date of Issue: 01-12-2022

Issued by: STC, Kanpur

S. No.	Unit /Location	Items / Description of Work	Supply	Installation / Construction	Commissioning / Testing / Inspection	Remarks / Balance Works
D	30 MLD STP					
D.1	Receiving Chamber					
1		Automatic systems for all gates	Completed	Completed	Pending	
D.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, 2 Nos	Pending	Pending	NA	
5		Sluice gate, 6 Nos	Completed	Completed	Pending	
6		Cable	Completed	Completed	Pending	
7		Cable tray	Completed	Completed	Pending	
8		Differnatail level transmitter, 1 Lots	Completed	Completed	Pending	
D.3	Raw Sewage Sump & Main Pump House (MPS)					
1		Raw Sewage pumps, 5 Nos.	Completed	Completed	Pending	
2		Sluice gate valves, 5 Nos.	Completed	Completed	Pending	
3		Non return valve (NRV), 5 Nos.	Completed	Completed	Pending	
4		Isolation valve, 700 mm, 2 No.	Completed	Completed	Pending	
5		Pressure indicator, 5 Nos			Pending	
6		Piping , Pipe supports	Completed	Pending	Pending	
7		EOT hoist, 1 No.	Completed	Completed	Pending	
8		Monorail beam, 1 No.	Completed	Completed	Pending	
9		Hydro test for Pumps discharge Line	Completed	Completed	Pending	
10		Ultrasonic level sensor, 1 nos	Completed	Completed	Pending	
11		Inlet flow meter	Completed	Completed	Pending	
12		Inlet flow meter Chamber	Completed	Work In Progress	Pending	
13		LCS Panel, 5 nos.	Completed	Completed	Pending	
14		Water quality anylzer, 1 nos.	Completed	Pending	Pending	

15	pressure transducer, 1 lot	Completed	Pending	Pending
16	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Completed	Pending
D.4 Primary Treatment Unit (PTU)				
1	Mechanical fine screen, 2 Nos.	Completed	Completed	Pending
2	Manual fine screen, 1 Nos.	Completed	Completed	Pending
3	Mechanical Sluice gate , 9 Nos.	Completed	Completed	Pending
4	Grit Mechanism , 2 nos	Completed	Completed	Pending
5	Organic pumps, 2 Nos	Completed	Completed	Pending
6	Screw classifier, 02 Nos	Completed	Completed	Pending
7	Sluice gate valves, 03 Nos.	Completed	Completed	Pending
8	Conveyor belt & chute Arrangement, 1 No.	Completed	Completed	Pending
9	Grit Washer Unit, 02 Nos	Pending	Pending	Pending
10	Wheeled trolley, 3 Nos	Pending	Pending	NA
11	Torque switch , 02 nos	Pending	Pending	Pending
	LPBS-6 Nos.	Completed	Completed	Pending
12	Ultrasonic differential level transmitter, 1 lot	Completed	Completed	Pending
D.5 Parshall Flume channel				
1	Ultrasonic flow transmitter, 1 Nos	Completed	Completed	Pending
2	Flow Chart and scale installation	Completed	Completed	Pending
D.5 Sequentail batch reactor (SBR 4 Nos.)				
1	Mechanical Sluice gate , 4 Nos.	Completed	Completed	Pending
2	Decanter, 4 Nos	Completed	Completed	Pending
3	Diffusers, 1432 Nos	Completed	Completed	Pending
4	Return activated Sludge pumps (RAS), (4w+1S) Nos	Completed	Completed	Pending
5	Surplus activated Sludge pumps (SAS), (4W+1S) Nos	Completed	Completed	Pending
6	Slector zone diffuser	Completed	Completed	Pending
7	Ball Valves, 28 nos	Completed	Completed	Pending
8	Butterfly Valves, 8 Nos	Completed	Completed	Pending

9	Non return valve (NRV), 4 Nos.	Completed	Completed	Pending	
10	Solenoid Valve (SOV), 4 Nos.	Completed	Completed	Pending	
11	Dissolved oxygen Meter, 28 Nos	Pending	Pending	Pending	To be installed as per CA.
12	LPBS, 4 Nos.	Completed	Completed	Pending	
13	LCS Panel, 8 nos.	Completed	Completed	Pending	
14	Hydrostatic level transmitier, 4 nos.	Completed	Completed	Pending	
D.6 Air Blower Unit (For SBR)					
1	Air Blowers, 06 Nos	Completed	Completed	Pending	
2	Butterfly Valves, 6 Nos	Completed	Completed	Pending	
3	Non return Valves, 6 Nos	Completed	Completed	Pending	
4	Ball Valves, 06 Nos	Completed	Completed	Pending	
5	EOT hoist, 1 No.	Completed	Work in Progress	Pending	
6	Pressure indicator, 6 Nos	Completed	Pending	Pending	
7	Acoustic hood, 6 Nos	Completed	Completed	Pending	
8	LPBS, 6 Nos.	Completed	Completed	Pending	
9	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Completed	Pending	
D.7 Sludge Thickener Unit					
1	Sludge Thickener , 1 No.	Completed	Completed	Pending	
2	Knife gate Valve (KGV), 2 Nos	Completed	Completed	Pending	
3	Butterfly Valve (BFV), 1 No.	Pending	Pending	Pending	
4	Ball Valves, 1 No.	Completed	Pending	Pending	
5	LPBS-1 nos.	Completed	Completed	Pending	
6	Torque switch , 1 Nos	Pending	Pending	Pending	
D.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	Pending	
4	Butterfly Valves, 2 Nos	Completed	Completed	Pending	
5	LPBS, 5 Nos.	Completed	Completed	Pending	
6	Ultrasonic Level transmeter, 1 nos.	Completed	Completed	Pending	

D.8 Sludge Sump

1	Sludge sump agitator, 1 No.	Completed	Completed	Pending
2	Overflow line	Pending	Pending	Pending
3	LPBS, 1 nos.	Completed	Completed	Pending
4	Ultrasonic Level transmeter, 1 Nos.	Completed	Completed	Pending

D.9 Centrifuge Feed pump Unit

1	Centrifuge Feed pumps, 3 Nos	Completed	Completed	Pending
2	Knife gate Valve (KGV), 7 Nos	Completed	Completed	Pending
3	Non return Valves,3 Nos	Completed	Completed	Pending
4	Ball Valves, 12 Nos.	Completed	Work in Progress	Pending
5	Pressure indicator, 3 Nos	Completed	Pending	Pending
6	LPBS, 8 nos.	Completed	Completed	Pending
7	LCS Panel, 3 Nos.	Completed	Completed	Pending

D.10 Centrifuge Building

1	Centrifuge , 3 Nos	Completed	Completed	Pending
2	Knife gate Valve (KGV), 3 Nos	Completed	Completed	Pending
3	Ball Valves, 3 Nos.	Completed	Completed	Pending
4	Centrifuge chute Arrangement, 3 Nos	Completed	Work in Progress	Pending
5	EOT hoist, 1 No.	Completed	Pending	Pending
6	Monorail beam, 1 No.	Completed	Pending	Pending
7	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Completed	Pending

D.11 Poly Dosing System

1	Dewatering polymer agitator , 2 Nos	Completed	Work in Progress	Pending
2	Polymr dosing pumps, 3 Nos	Completed	Completed	Pending
3	Ball Valves, 07 Nos.	Completed	Pending	Pending
4	Solenoid Valve (SOV), 2 Nos.	Pending	Pending	Pending
5	Overflow & drain line work	Completed	Pending	Pending

6	Non return Valves,6 Nos	Pending	Pending	Pending
7	Pressure indicator , 3 Nos	Completed	Pending	Pending
8	Conductivity level switch-2 Nos.	Completed	Completed	Pending
9	Polymer material stock	Pending	NA	NA
D.11 Chlorination Building				
1	EOT hoist, 1 No.	Completed	Pending	Pending
2	Monorail beam, 1 No.	Pending	Pending	Pending
3	Chlorinators, 2 Nos	Completed	Completed	Pending
4	Chlorine Booster Pumps, 2 Nos	Completed	Completed	Pending
5	Recirculation pumps , 2 nos	Completed	Pending	Pending
6	Leak absorbation system, 1 Nos	Completed	Completed	Pending
7	Air Blowers, 2 Nos	Completed	Completed	Pending
8	Valves, 1 lot	Completed	Pending	Pending
9	Pressure gauges, 7 Nos	Completed	Pending	Pending
10	Panel, 1 lots	Completed	Completed	Pending
D.12 Chlorine contact Tank (CCT)				
1	Level switch, 1 Nos	Completed	Pending	Pending
2	Utility water pumps, 2 Nos	Pending	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	Water qaiality Anylzer, 1 Nos	Completed	Pending	Pending
D.13 Parshal Flume channel at outlet				
1	Ultrasonic open channel flow transmitter, 1 Nos	Completed	Completed	Pending
2	Flow Chart and scale installation	Pending	Pending	Pending

D.14 Electrical & Related Works

1	DG set, 2 Nos	Completed	Completed	Pending
2	LPBS, 1 Lot	Completed	Completed	Pending
3	Exhaust fan, ceiling fan, internal electrification, earthing, AC for panel room	Completed	Completed	Pending
4	Indoor & Outdoor Lighting	Completed	Work In Progress	Pending
5	LT Panel, 1 lot	Completed	Completed	Pending

D.15 Civil & Site Improvement Works

1	Admin Building	NA	Completed	Pending	Lab setup pending
2	Overhead service tank	NA	Not Started	Pending	
3	Service water pumps & plumbing	NA	Not Started	Pending	Dulition water line and plambing work pending
4	Tiling / Flooring at all Buildings	NA	Work In Progress	Pending	
5	All Buildings Roof rainwater drains, Roof treatment, Plinth protection	NA	Pending	Pending	
6	Indoor & Outdoor Painting	NA	Work In Progress	Pending	SBR & boundary wall finshing and painting work pending
7	Doors, Windows, Shutters, etc.	NA	Completed	Pending	
8	Stormwater drains	NA	Not Started	Pending	Drain pit pending
9	Backfilling, Grading	NA	Work In Progress	Pending	
10	Landscaping	NA	Work In Progress	Pending	
11	Entry Road	NA	Completed	Pending	
12	Internal Pathways / Access Roads	NA	Work In Progress	Pending	Interconection pathway pending

D.16 Site Safety & Security

1	Guard Room	NA	Completed	Pending	
2	Entrance Gate	NA	Completed	Pending	
3	Boundary Wall	NA	Work In Progress	Pending	Painting work pending
4	Handrailing	NA	Pending	Pending	Sludge thickner handrail pending
5	Fire fighting extinguishers		Pending	Pending	
6	Nomenclature on Units / Buildings, Signboards, Site Plan, Project Banner, Site Name Banner, etc.	NA	Pending	Pending	

7	Site Surveyance / CCTV	Pending	Pending	Pending
8	Logbooks - Attendance Register, Visitor logs, RSPS logs, DG logs, Maintenance logs, etc.	Pending	Pending	Pending
D.17 Miscellaneous				
1	Gaskets as per IS Standards	Pending	Pending	Pending
2	Hydrotest for all pumps, air blower, centrifuge, chlorinations etc. discharge lines	NA	NA	Pending
3	Hydrotest for all water retaining units	NA	NA	Pending
4	Pipe support for all units	Pending	Pending	Pending
5	Marking TWL all structure	NA	Not Started	Pending