

**M/s Shri Someshwar Sahakari Sakhar Karkhana Ltd.
Someshwarnagar, Taluka: Baramati, Dist.: Pune**

BOQ CIVIL WORK

For

**Proposed Effluent Treatment Plant to Treat the Sugar Factory Effluent Along with Spray Pond
Overflow Wastewater**

(Capacity 1800-2000m³/day)

Annexure I B - Abstract

EQUILIZATION & NEUTRALIZATION TANK, SURGE TANK, SCREEN, OIL AND GAS CHAMBRES					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m)	900.000	CUM		
2	A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m)	180.000	CUM		
3	Excavation for foundation in hard rock by chiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m)	0.000	CUM		

EQUILIZATION & NEUTRALIZATION TANK, SURGE TANK, SCREEN, OIL AND GAS CHAMBRES					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
4	A- Filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete (owners material)	180.000	CUM		
	B -Providing Material from outside and filling as said above	0.000	CUM		
5	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	340.000	CUM		
6	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite, quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer/concert batch mix plant (Pan Mixer) etc. complete. V. S. I quality artificial sand	88.000	CUM		
7	7a. Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum	185.000	CUM		

EQUALIZATION & NEUTRALIZATION TANK, SURGE TANK, SCREEN, OIL AND GAS CHAMBRES					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	type mixer / concrete batch mix plant (Pan mixer) etc. complete. With. S. I quality artificial sand				
	7b. RCC Chamfers to the tanks	8.000	CUM		
8	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C pardi of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc. complete V. S. I. quality artificial sand	100.000	CUM		
9	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C column with cement plaster of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with	20.000	CUM		

EQUILIZATION & NEUTRALIZATION TANK, SURGE TANK, SCREEN, OIL AND GAS CHAMBRES					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc. complete V. S. I. quality artificial sand				
10	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	860.000	Sqm		
11	Providing sand faced cement plaster 20mm thick in two coats in cement mortar 1:4 with water proofing powder 1 kg per cement bag etc. to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	275.000	Sqm		
12	providing cement paint to external concrete surface as per is standards with proper curing etc. complete @ 90.3 Rs/sq/m	120.000	Sqm		
13	Providing and fixing in position TMT-FE-500 bar reinforcement of various diameters for rcc pile caps, puttings, foundations, slabs, beams column, canopies, stero place, newels, chajjas, linteles pardis, copping, fins, arches etc. as per detailed design drawing and schedules including cutting , bendding , hooking the bars, binding with wires or tac welding and supportive as required complete. A) for TMT Fe 415 steel bars (IF Mild Steel/HYSD steel is to be used prior permission from S.E. should be taken)	21.000	MT		

AERATION & ANAEROBIC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m)	1830.000	Cum		
2	A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m)	600.000	Cum		

AERATION & ANAEROBIC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift above 1.50 m)	0.000	Cum		
3	A Local Material filling as per standard with watering and compaction etc. complete	600.000	Cum		
4	Excavation for foundation in hard rock by chiiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	305.000	Cum		
5	Providing and filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	400.000	Cum		
6	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	295.000	CUM		

AERATION & ANAEROBIC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
7	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	195.000	Cum		
8	8a. Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. With V. S. I quality artificial sand	362.000	Cum		
	8b. RCC Chamfers at pardi bottoms or at at the junction of pardi and footing top	9.000	Cum		

AERATION & ANAEROBIC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
9(a)	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C pardi of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc. complete with V. S. I. quality artificial sand	256.000	Cum		
9(a)	RCC Column	96.000	Cum		
10	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete	795.000	sqm		
11	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	1765.000	sqm		
12	Providing and applying cement paint in	600.000	SqM		

AERATION & ANAEROBIC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	three coats, snowcemmake etc. complete				
13	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	57.000	MT		
14	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailling out water manually, striking joints on us exposed faces and watering etc. complete	0.000	cum		
15	Providing an casting in situ cement concret in M25 of trap/granite-- metal for RCC Beam and Lintels including Designs Drawing, Centring form work, cover box etc complete expet reinforced steel	18.000	cum		

PRIMARY CLARIFIER					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m)	320.000	Cum		
2	<p>A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m)</p> <p>B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the</p>	20.000	Cum		

PRIMARY CLARIFIER					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)				
3	Excavation for foundation in hard rock by chiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	0.000	Cum		
4	A .filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	150.000	Cum		
	B. Providing hard murum broad from outside. Etc complete	115.000	cum		
5	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	35.000	Cum		

PRIMARY CLARIFIER					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
6	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite, quartzite / gneiss metal for foundation and bedding including bailing out water, formwork, lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. V. S. I quality artificial sand	20.000	Cum		
7	7a. Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. V. S. I quality artificial sand	29.000	Cum		
	7b. RCC Chamfers at the junction of pardi bottom and raft top	2.000	Cum		

PRIMARY CLARIFIER					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
8	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C pardi of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc. complete V. S. I. quality artificial sand	29.000	Cum		
9	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete	195.000	SqM		
10	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	250.000	SqM		

PRIMARY CLARIFIER					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
11	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	7.500	MT		
12	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on us exposed faces and watering etc. complete	38.000	Cum		
13	Providing and casting in situ cement concrete in M25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic microprocessor based PLC with SCADA enabled concrete batch mix plant (pan mixer)etc. complete V. S. I quality artificial sand	6.000	Cum		
14	Providing and applying water proof cement paint in three coates of santex make	195.000	Sqm		

SECONDARY CLARIFIER (DIA - 13 M AND DEPTH - 2.5 M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m)	380.000	Cum		

SECONDARY CLARIFIER (DIA - 13 M AND DEPTH - 2.5 M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
2	A. Excavation for foundation in hard murum including removing the excavation material upto distacnce 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	20.000	Cum		
3	Excavation for foundation in hard rock by chiiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	0.000	Cum		
4	filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	155.000	Cum		
		155.000	Cum		
5	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	45.000	Cum		

SECONDARY CLARIFIER (DIA - 13 M AND DEPTH - 2.5 M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
6	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite, quartzite / gneiss metal for foundation and bedding including bailing out water, formwork, lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	26.000	Cum		
7	7a. Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. With V. S. I quality artificial sand	34.000	Cum		
	7b. RCC Chamfers M25 at the junction of pardi bottom and raft top internally	2.000	Cum		
8	Providing and laying cast in situ / ready	32.000	Cum		

SECONDARY CLARIFIER (DIA - 13 M AND DEPTH - 2.5 M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C pardi of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc. complete with V. S. I. quality artificial sand				
9	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete	220.000	SqM		
10	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	300.000	SqM		

SECONDARY CLARIFIER (DIA - 13 M AND DEPTH - 2.5 M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
11	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	8.500	MT		
12	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailling out water manually, striking joints on us exposed faces and watering etc. complete	42.000	Cum		
13	Providing and casting in situ cement concrete in M20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant (pan mixer)etc. complete WithVSI grade artificial sand.	7.000	Cum		
14	Providing and applying water proof cement paint in three coates of santex make	220.000	Sqm		

SECONDARY CLARIFIER (DIA - 13 M AND DEPTH - 2.5 M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount

HOLDING TANK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m)	252.000	Cum		

HOLDING TANK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
2	<p>A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)</p> <p>B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)</p>	168.000	Cum		
3	filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	75.000	Cum		
4	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	40.000	Cum		
5	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	25.000	Cum		

HOLDING TANK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
6	6a. Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover blocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. With V. S. I quality artificial sand	43.000	Cum		
	6b, RCC Chamfers M25 at the junction of pardi bottom and raft top internally	2.000	Cum		
7	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C pardi of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc. complete with V. S. I. quality artificial sand	23.000	Cum		
8	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc. complete	135.000	Sqm		

HOLDING TANK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
9	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	260.000	Sqm		
10	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	7.500	MT		
11	Providing and Filling murrum brought from outside at required place in layers of 15 to 20 cm compaction, curing etc complete	50.000	Cum		
12	Providing Cement paint to plaster surfaces including curing capholding etc complete	135.000	Sqm		

SLUDGE DRYING BEDS (18M X 10M X 2M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.5 m)	900.000	Cum		
2	A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	0.000	Cum		
3	Excavation for foundation in hard rock by chiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	0.000	Cum		

SLUDGE DRYING BEDS (18M X 10M X 2M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
4	filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	300.000	Cum		
5	1.) Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	276.000	Cum		
6	1.) Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	160.000	Cum		
7	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete	160.000	Sqm		
8	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	685.000	Sqm		
9	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed	28.000	Cum		

SLUDGE DRYING BEDS (18M X 10M X 2M)					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	faces and watering etc. Complete				
10	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on us exposed faces and watering etc. complete	140.000	Cum		
11	Providing cement painting to the external plaster	160.000	Sqm		
12	Providing and laying cement concrete pipe of IS 458:2003 NP2 class of 150mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete	100.000	Rmt		
13	Metals filling	90.000	Cum		
14	Sand filling	90.000	Cum		

SLUDGE SUMP 2 NOS (2.0M X 2.0M X 2.5M DEPTH)					
No.	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.5 m)	400.000	Cum		
2	A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	100.000	Cum		
2C	Excavation for foundation in hard rock by chiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	0.000	Cum		
2D	filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	100.000	Cum		

SLUDGE SUMP 2 NOS (2.0M X 2.0M X 2.5M DEPTH)					
No.	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
3	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	40.000	Cum		
4	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	12.000	Cum		
5	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. With V. S. I quality artificial sand	8.000	Cum		
6	Providing and laying cast in situ / ready mix cement concrete M-25 of trap / granite / quartzite/ gneiss metal for R. C. C pardi of required thickness including centering, formwork cover blocks, laying / pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan Mixer) etc.	3.000	Cum		

SLUDGE SUMP 2 NOS (2.0M X 2.0M X 2.5M DEPTH)					
No.	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
	complete with V. S. I. quality artificial sand				
7	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete	120.000	Sqm		
8	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	36.000	Sqm		
9	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	0.600	MT		

SLUDGE SUMP 2 NOS (2.0M X 2.0M X 2.5M DEPTH)					
No.	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
10	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on us exposed faces and watering etc. complete	40.000	Cum		
11	providing and Filling murrum brought from outside, curing compaction etc complete	200.000	Cum		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m)	100.000	Cum		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
2	<p>A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m)</p> <p>B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m)</p>	60.000	Cum		
3	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	33.000	Cum		
4	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	12.000	Cum		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
5	Providing and laying cast in situ / ready mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. With V. S. I quality artificial sand	9.000	Cum		
6	Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. plinth beams as per detailed designs and drawing or as directed including centering, formwork, cover blocks compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant (pan mixer) With V. S. I quality artificial sand	5.000	Cum		
7	Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. Columnincluding centering, formwork, cover blocks compaction & roughening the surface if special finish is to be provided & curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant (pan mixer) With V. S. I quality artificial sand	6.000	Cum		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
8	Providing & casting in situ cement concrete M25 of trap / granite /quartzite/ gneiss metal for R.C.C. floor beams and lintels as per detailed designs & drawings or as directed including centering, formwork, cover blocks compaction & roughening the surface if special finish is to be provided & curing etc. complete. (Excluding reinforcement and structural steel). With fully automatic micro processor based PLC with SCADA enabled reversible drum type concrete mixer With V. S. I quality artificial sand	1.000	Cum		
9	Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork, cover blocks compaction & roughening the surface if special finish is to be provided & curing etc. complete. (Excluding reinforcement and structural steel). With fully automatic micro processor based PLC with SCADA enabled reversible drum type concrete mixer With V. S. I quality artificial sand	7.000	Cum		
10	Providing and casting in situ cement concrete M20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings canopy as per detailed designs and drawings including centering, formwork, cover blocks compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel).With fully automatic micro processor based PLC with SCADA enabled reversible drum type concrete mixer With V. S. I quality artificial sand	9.000	Cum		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
11	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on us exposed faces and watering etc. complete	15.000	Cum		
12	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	13.000	Cum		
13	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. Ghana teak wood used for door frame of section size 125mm x 100 mm	13.000	Sq.m		
14	Providing and fixing steel window of various sizes as per detailed drawing without hot dip zinc coating, without ventilators, including fabricating / glazing with plain / obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, finishing with oil painting two coats complete (with guard bars 12 mm square at 10 cm c/c.)	14.000	Sq.m		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
15	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete	210.000	SqM		
16	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	275.000	SqM		
17	Providing and casting in situ cement concrete in M20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. parapet/pardi of required thickness including centering, formwork, cover blocks compacting , curing , finishing & roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant (pan mixer) With VSI Grade artificial sand.	2.000	Cum		
18	Providing and laying vitrified mirror / glossy finish tiles of RAK/ Kajaria/ Nitco/ Asian or equivalent make having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.b) Skirting	80.000	Sq. m		
19	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if	210.000	nos		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	necessary, cleaning and preparing the surface, watering for two days etc. complete. (External)				
20	Providing and fixing lab platform (BBM 4 X 1/2 walls, plaster, ottaslab, plaster,matfinish with vetrified tiles,stainless steel sink oilpainting, etc comolete (l= 4.75 rmt, width 0.75 m)	3.600	Sqm		
21	providing lying C.I. nhani trap of 100mm dia. In the floor / land with necessary cutting / excavtion and at last refill to make the surface as preveious material finish etc...	3.000	nos		
22	providing lying C.I. Gully trap cover with frame with necessary constrcution and finish etc...	2.000	nos		
23	Providing and lying S.W.G pipeline 150mm dia in proper level filling joints in cement mortar CM 1:2 with necessary curing including excavation and refilling with compaction etc complete..	20.000	RMT		
24	Providing & constructing Brick Masonry Inspection Chamber 90cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and C.I. lid cover 75 kg with frame fixed in cement concrete.	3.000	nos		
25	Provdng supplying HDPE/PVC water tank of 15000 lit capacity with nessecory supports 1000 lit	15000.000	Lit		
26	Provdng, supplying and laying RCC septic tank including refeeling detrench etc complete (900 mm dia and 2.5 m length devidedv in three compartment)	1.000	nos		
27	Providing and fixing white glazed earthenware Wash Hand Basin of 55cm. x 40 cm. size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe	1.000	nos		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	connections including P.V.C. waste pipe and trap up to the outside face of the wall.				
28	Providing and fixing European type white glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall without flushing cistern with flush cock and with water Jet and necessary fittings including cutting and making good to the walls and floors testing etc. complete.(prior approval of sample and brand by Ex. Engineer is necessary before use)	1.000	nos		
29	Providing and fixing White Glazed Earthenware full stall type Urinal with P.V.C. flushing cistern of 5 liters capacity with fitting, inlet pipes and stop tap, brackets for fixing the cistern, 32 mm dia. P.V.C flush pipe with fittings and flushing arrangement including lead soil pipe, lead trap, soil pipe connection up to the outside face of the wall	1.000	nos		
30	Providing and fixing C.P.Two way BIB cock jaquar make or equivalent continental (CAT.NO. CON041) including necessary sockets/union nut etc. complete	4.000	nos		
31	Providing and fixing C.P. pillar cock long neck with aerator jaquar or equivalent make continental (CAT.NO. CON 021) including necessary sockets/union nut etc. complete.	2.000	nos		
32	Providing and fixing Orissa type white glazed earthenware 575 mm water closet pan including S trap with earthenware foot rests, cast iron soil and vent pipe upto outside face of the wall 1:2:4 brick bat lime concrete bedding without flushing tank and its accessories etc. complete.	1.000	nos		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
33	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. a) For TMT Fe 415 steel bars (If Mild Steel/HYSD steel is to be used prior permission from S.E. should be taken)	2.250	MT		
34	Providing structural steel work in single stanchions composed of R.S.J. Channel etc. with caps, bases, mild steel plated, angle brackets, cleats, gusset plates, anchor bolts etc. as per detailed designs and drawings or as directed including cutting, fabrication, hoisting, erecting fixing in position, making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it two. coats of oil painting approved quality and shade etc. complete.	1.500	MT		
35	Providing and laying in trenches 25 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 2.49 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with primer of anticorrosive oil paint , 2 coats complete.	15.000	MT		
36	Providing and laying in trenches 20 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 1.93kg/m necessary fitting remaking good the demolished portion with filling trenches and with primer of anticorrosive oil paint , 2 coats complete	15.000	MT		
37	Providing and laying in trenches 15 mm dia. medium grade having embossed as ISI Mark galvanised iron pipes of 1.25 kg/meter necessary fitting remaking good the demolished portion with filling trenches and with	25.000	MT		

OFFICE - LAB - CONTROL ROOM - TOILET BLOCK					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	primer of anticorrosive oil paint , 2 coats complete				
38	Providing and fixing 25mm diameter water meter with non return valve including strainer, sockets/ union nut and including water meter box making locking arrangement and lock. [Without chamber].	1.000	nos		
39	Providing and applying plastic emulsion paint of approved quality, colour and shade to new surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.	200.000	Sq. m		

SHED FOR BLOWER & ETC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount

SHED FOR BLOWER & ETC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.5 m)	33.000	Cum		
2	A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	6.000	Cum		
3	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	5.000	Cum		
4	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with natural sand / V. S. I quality artificial sand	4.000	Cum		

SHED FOR BLOWER & ETC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
5	Structural Steel - Providing structural steel work in single stanchions composed of R.S.J. Channel etc. with caps, bases, mild steel plated, angle brackets, cleats, gusset plates, anchor bolts etc. as per detailed designs and drawings or as directed including cutting, fabrication, hoisting, erecting fixing in position, making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it two. coats of oil painting approved quality and shade etc. complete	0.500	Cum		
6	providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1 : 6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on us exposed faces and watering etc. complete	9.000	Cum		
7	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	8.000	SqM		
8	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	13.000	Cum		
9	Providing sand faced External plaster in CM 1:4 including scaffolding watering and compaction etc complete	36.000	SqM		
10	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	33.000	SqM		

SHED FOR BLOWER & ETC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
11	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	69.000	Sq.m		
12	providing and fixing Roof Sheeting with 0.45mm thick Precoated metal sheets with necessary drilling screwing, clams, etc complete	15.000	Sq.m		
13	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. also provide and fix tikwood door fram of 2.2 meter height and 1.2 meter width and section size 5 inches X 4 inches etc complete	3.000	Sq.m		
14	Providing and fixing steel window of various sizes as per detailed drawing without hot dip zinc coating, without ventilators, including fabricating / glazing with plain / obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, finishing with oil painting two coats complete (with guard bars 12 mm square at 10 cm c/c.)	4.000	Sq.m		
15	Providing and laying Rough Shahabad Stone Flooring 50mm to 60mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. complete. Providing and fixing sills of grenite/marble in cement mortar 1:3 with necessary rounding ages top and bottom	45.000	Sq.m		

SHED FOR BLOWER & ETC					
No.	Particulars of Item	Quantity	Unit	Rate	Amount
	which is projected etc, complete				
16	Window sills (Kotha stone)	5.000	Sq.m		
17	Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork, cover blocks compaction & roughening the surface if special finish is to be provided & curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant (pan mixer) With VSI Grade artificial sand.	1.000	Cum		

FOUNDATION FOR PUMPS AND BLOWERS AND PLATFORM FOR FILTER					
No	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.5 m)	42.000	Cum		
2	A. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	65.000	Cum		
3	Excavation for foundation in hard rock by chiselling, wedging line drilling, etc including trimming and levelling the bed removing the excavated material upto a distance as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	0.000	Cum		

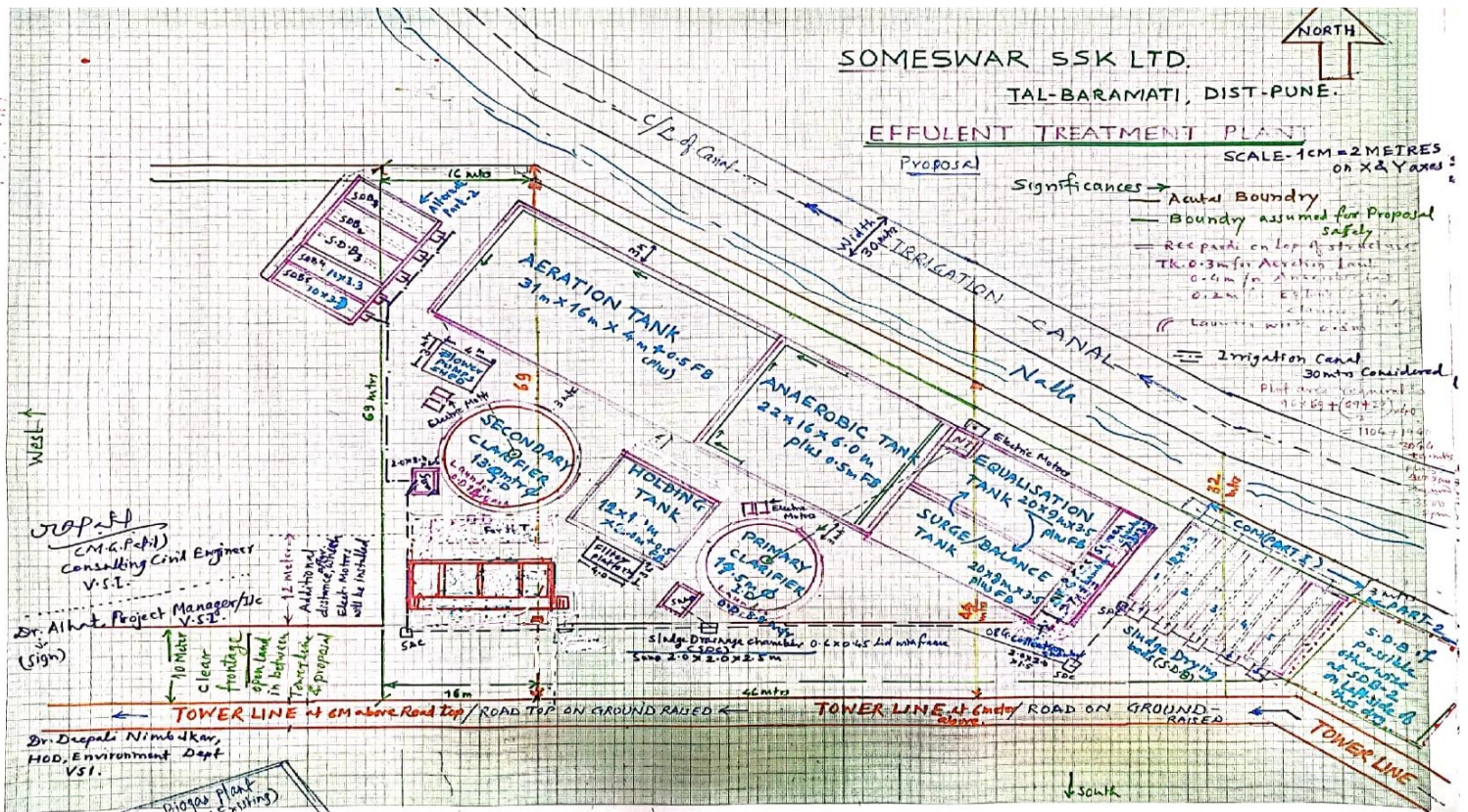
FOUNDATION FOR PUMPS AND BLOWERS AND PLATFORM FOR FILTER					
No	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
4	filling in plinth and floors with approved excavated material in 15 cm to 20cm. Layers including watering and compaction etc complete	100.000	Cum		
5	Providing dry / trap / granite / quartzite / gneiss rubble stones soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	22.000	Cum		
6	Providing and laying cast in situ / ready mix cement concrete in M-10 of trap / granite , quartzite / gneiss metal for foundation and bedding including bailing out water, formwork , lying / pumping, compacting, roughing them if special finish is to be provided finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible drum type mixer/concret batch mix plant (Pan Mixer) etc. complete. with V. S. I quality artificial sand	6.000	Cum		
7	Providing and laying cast in situ / ready mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R. C. C. work in foundation like raft, strip foundation, grillage and footing of R. C. C. columns and steel stanchions, etc. Including bailing out water formwork, cover bocks laying / pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete with fully automatic microprocessor based PLC with SCADA enabled reversible drum type mixer / concrete batch mix plant (Pan mixer) etc. complete. With V. S. I quality artificial sand	14.000	Cum		
8	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	75.000	Cum		

FOUNDATION FOR PUMPS AND BLOWERS AND PLATFORM FOR FILTER					
No	Particulars of Item	Quantity (Cum)	Unit	Rate	Amount
9	Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	0.600	Cum		
10	Providing MS bolts of required sizes (Lengths 0.7meter and M 20/25 etc to be provided in pockets of the RCC foundation by using GP 2 concrete) etc complete	64.000	Cum		

PIPELINE FROM FACTORY TO ETP SCREEN CHAMBER					
No	Particulars of Item	Quantity	Unit	Rate	Amount
1	A. Providing and supplying in standard length HDPE pipe conforming to ISO -4427 with necessary joining mechanical connectors i.e. thread insert joint/ quick relax complex joint/ complete compression fitting joints or flanged joints including transport and fright charges , inspection charges convene to site to work and stuck in same in the closed shell, protecting form sunrays and rinse etc..HDPE pipe 250 mm dai ISO 4427SDR 47 pressure 4kg/cm ² PE 100	550	RMT		
	B. Proving laying and jointing HDPE pipe by heating by heading to the end to pipe with the help of Teflon coated electric mirror / heater to the required temperature and then pressing the end together against each other to from a monolithic and leak roof joint by thermosetting process, the pressing may be done by jakes/ hydraulic jakes/ but fusion machine etc. complete with all materials, libbers as required/ as directed by engineer in charge including	550	RMT		

PIPELINE FROM FACTORY TO ETP SCREEN CHAMBER					
No	Particulars of Item	Quantity	Unit	Rate	Amount
	giving satisfactory hydraulic test etc. complete HDPE - 250mm Dia, 4 kg/cm ²				
2	. Excavation for foundation in hard murum including removing the excavation material upto distance 50 meters beyond the building area and stacking and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m) B. Excavation for foundation in hard murum including removing the excavated material upto distance and spreading as directed, dewatering preparing the bed for the foundation and necessary back filling, ramming, watering including sharing and strutting etc. complete. (Lift upto 1.50 m)	750	Cum		
3	Providing and laying black cotton soil in layers 52 cm including watering and compacting etc. complete	50	Cum		
4	Providing and laying soft/hard murum soil in layers 52 cm including watering and compacting etc. complete	700	Cum		
5	Providing and laying brick layer on either tile of pipeline laid etc. complete	5000	No		

Annexure II – Layout



Effluent Treatment Plant
Shri Someshwar SSK Ltd, Someshwarnagar, Baramati, Pune