

ESTIMATE

Name of work :- Construction of Common Washroom Facility In G.no.868 Paiki, For Yuvan
Farmers Producer Co.ltd,At-Takli, Tal- Niphad,Dist: Nashik (MH)

Estimated Cost of Works (Rs.) :-

787332.00

Rupces seven lakhs eighty-seven thousand three hundred thirty-two and paise nil only





SAI CONSULTANT'S

Consulting Civil Engineer, Builders & Developers,
Approved Valuers, Chartered Engineer & Govt. Contractors

Shop no 2, Nr. Adhar Chhobay, Govt Colony,
College Road, Rahuri, Tal Rahuri, Dist. AHMEDNAGAR
Mo 917025 00072, 917111
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Name of work :- Construction of Common Washroom Facility In G.No.868 Palki, Pth Yuvan
Farmers Producer Co.Ltd, At-Takli, Tal- Niphad, Dist: Nashik (MH)

RECAPITULATION SHEET

| | | | |
|---|---------------------------------|-----|------------------|
| 1 | Work Portion (Part A) | Rs. | 626036.00 |
| 2 | Add Royalty | Rs. | 6668.00 |
| 3 | Add Testing Charges | Rs. | 12750.00 |
| 4 | Add. 1.00 % Insurance on Part A | Rs. | 6260.00 |
| 5 | Add. 18.00 % GST Part A | Rs | 112686.00 |
| | Total Rs. | | 764400.00 |
| 6 | Add. 3% Contingencies on Total | Rs | 22932.00 |
| | Say Rs. | | 787332.00 |

Rupees seven lakhs eighty-seven thousand three hundred thirty-two and paise nil only


Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322

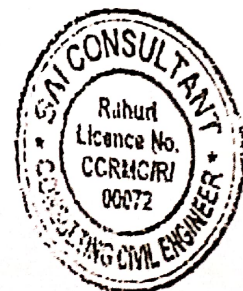

Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name of work :- Construction of Common Washroom Facility In (I.no.868 Palki, Far Yuvan Farmers Producer Co.Ltd,AI-Takli, Tal- Niphad,Dist: Nashik (MH)

ABSTRACT

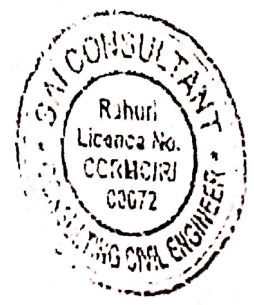
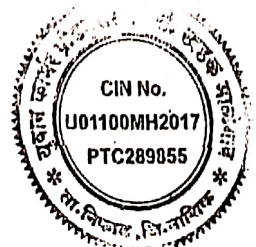
| Quantity | S.No | Item of work | Rate | unit | Amount |
|----------|------|--|----------|---------------|----------|
| 12.00 | 1 | Providing and laying cast in situ / Ready Mix Cement Concrete of M20 grade RCC single rim bored pile of 300 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel reinforcement) | 1600.99 | Running Metre | 20172.47 |
| 1.46 | 2 | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap metal for R.C.C. pile caps as per detailed designs and drawings. including bailing out water manually, centering, formwork, laying/ pumping, compacting, finishing and curing etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand, complete. (Excluding steel reinforcement) | 8093.99 | Cubic Metre | 11817.23 |
| 1.57 | 3 | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, 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 mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) | 14342.99 | Cubic Metre | 22518.49 |
| 2.09 | 4 | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, 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 reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) | 12828.99 | Cubic Metre | 26812.59 |



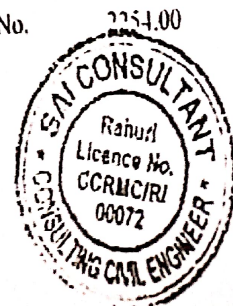
| Quantity | Unit | Item of work | Rate | Unit | Amount |
|----------|------|---|----------|-----------------|-----------|
| 1.27 | | 5 Providing and fixing in position 10M ² - 11 - 900 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams, columns, canopies, staircase, screens, chajjas, launch ponds, copings, fins, arches etc. as per detailed design, drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. | 89701.00 | Metre Tonne | 111922.81 |
| 3.36 | | 6 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 joint to nonexposed faces, raking out joints on exposed faces and watering etc. Complete. | 7894.63 | Cubic Metre | 26525.96 |
| 18.20 | | 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 | 8133.63 | Cubic Metre | 148032.07 |
| 70.42 | | 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. | 653.86 | Square Metre | 46044.82 |
| 102.15 | | 9 Providing internal cement plaster 20mm. Thick in Single coats in cement mortar 1:3 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete. | 404.04 | Square Metre | 41272.69 |
| 70.33 | | 10 Providing fine cement finish 1.5mm thick over green plaster surface including scaffolding curing etc. complete. | 66.00 | Square Metre | 4641.78 |
| 38.93 | | 11 Providing neeru finish to plastered surfaces in all positions including scaffolding and curing etc. complete. | 65.00 | Square Metre | 2530.45 |
| 38.93 | | 12 Providing and applying washable powder distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces (excluding the priming coat) etc. complete. | 19.00 | Square Metre | 739.67 |
| 0.54 | | 13 Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes 5 mm thick and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete. | 3375.00 | Square Metre | 1822.50 |



| Quantity | Item No. | Description of work | Rate | Unit | Amount |
|----------|----------|--|----------|--------------|----------|
| 11 | | Providing and fixing 10 MM thick HOTEL SIDE PRELAMINATED PVC PANEL PVC TRIPPER SHEET consisting of frame made out of MS tubes of 19 gauge thickness and size 19 x 19 mm for styles and 15 x 15 mm for the top and bottom rails. MS frame shall have a coat of metal primer of approved make and manufacture. MS frame shall be covered with heat moulded PVC 'C' channel made from 5 mm (+0.25) thick pre-laminated sheet of density 600 Kilogram/cbm of size 30mm thickness 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45° angle on either side forming styles, and 5 mm thick .95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45° on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rail shall be provided either side of the panel. An additional 5 mm (+0.25) thick PVC strip of 20 mm width is to be stuck on the bottom side of the 'c' channel laminated paneling of 5 mm (+0.25) thick PVC sheet to be fitted inside the M.S. frame welded/ sealed to the styles and rails with 5 mm (+0.25) x 30 mm PVC sheet beading on either side and joined together with solvent cement adhesive etc, 10 mm thickness (5 mm (+0.25) x 2 nos) 20 mm wide cross PVC sheet as gap insert for the rail and bottom rail. Door to be fixed to frames with 3 nos | 6548.00 | Square Metre | 29626.20 |
| 2.00 | 15 | Providing and constructing Brick Masonry Inspection Chamber 60cm 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 with frame fixed in cement concrete with R.C.C. Cover medium duty 140Kilogramwith frame etc complete. | 13965.83 | No. | 27931.66 |
| 2.00 | 16 | Providing and fixing Orissa Pan of size 580x445x260 mm with approved make flush valve including trap, C.I. soil and vent pipe upto outside face of wall including 100mm dia. C.I. plug, bend and necessary pipe connection, etc complete. As directed by Engineer in charge | 7260.20 | No. | 14520.41 |
| 2.59 | 17 | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, 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,(including reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) | 14502.99 | Cubic Metre | 37562.75 |



| Quantity | L.No | Item of work | Rate | unit | Amount |
|----------|------|---|---------|--------------|----------|
| 70.42 | 18 | Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. | 79.00 | Square Metre | 5561.18 |
| 5.04 | 19 | 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 3.00 m.) By Manual Means | 239.00 | Cubic Metre | 1204.56 |
| 0.84 | 20 | Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. | 1884.27 | Cubic Metre | 1582.79 |
| 2.12 | 21 | 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, Steel centering, formwork, laying/pumping, compacting, roughening 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/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) | 6431.85 | Cubic Metre | 13635.52 |
| 5.44 | 22 | Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete. | 1047.22 | Cubic Metre | 5696.88 |
| 1000.00 | 23 | Providing and fixing H.D.P container one piece moulded water tank made out of high density polythylene and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters | 14.00 | Litre | 14000.00 |
| 2.00 | 24 | Providing and fixing 15 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete. | 671.00 | No. | 1342.00 |
| 2.00 | 25 | Providing and fixing coloured 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 connection including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete. | 5986.00 | No. | 11972.00 |
| 2.00 | 26 | Providing and fixing 10cm C.I. Nahani Trap including C.I. grating bend and piece of C.I. pipe upto the outside face of the wall complete. | 1127.00 | No. | 2254.00 |



| Quantity | Rate | Unit | Amount |
|----------|------|---------------|--------|
| 10.00 | 27 | Running Meter | 870.00 |
| 3.00 | 28 | Running Metre | 471.00 |

27 Providing, laying and fixing P.V.C. pipe of 15mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.

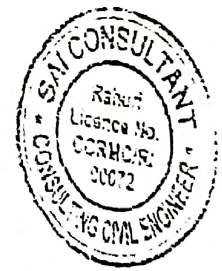
28 Providing, laying and fixing P.V.C. pipe of 25mm dia. with fittings such as bends, tees, reducers, clamp, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.

22.37 29 Royalty Charges for sand
6.28 Royalty Charges for Rubble and HM

Total Rs 626036.18
Say Rs. 626036.00
Part A) Cum 5301.97
217.37 Cum 1357.61
216.18 Total Rs. 6667.58
Part B) Say Rs. 6668.00
Total Rs. 632704.06
Say Rs. 632704.00

G Bhaskar
Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322

Sai
Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name of work :- Construction of Common Washroom Facility In G. no. 808 Path, For Yuvan Farmers Producer Co. Hd. At. Tril, Tal. Niphad, Dist. Nashik (MH)

MEASUREMENT SHEET

L.No.

1 Providing and laying cast in situ / Ready Mix Cement Concrete of M20 grade RCC single rim bored pile of 100 mm dia. each of load capacity as per design and of specified diameter of pile and bulb as directed, sunk to the required depth through all strata except rock, excluding provision of reinforcement including placing with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) by tremie arrangement compaction of concrete including chipping and dressing etc. complete. (Excluding steel

| | | | | | | | | |
|------------------|---|---|------|---|------|---|------------------|--------------------|
| Common Wash Room | 1 | x | 6.00 | x | 2.10 | = | 12.60 | Rmt |
| | | | | | | | Total Qty | = 12.60 Rmt |

2 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap metal for R.C.C. pile caps as per detailed designs and drawings, including bailing out water manually, centering, formwork, laying/ pumping, compacting, finishing and curing etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand, complete. (Excluding steel reinforcement)

| | | | | | | | | | | |
|------------------|---|---|------|---|------|---|------------------|----------|-----------------|-----|
| Common Wash Room | 6 | x | 0.90 | x | 0.90 | x | 0.30 | = | 1.46 | cum |
| | | | | | | | Total Qty | = | 1.46 cum | |

3 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, 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 mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

| | | | | | | | | | | |
|------------------|---|---|------|---|------|---|------------------|----------|-----------------|-----|
| Common Wash Room | 6 | x | 0.23 | x | 0.38 | x | 3.00 | = | 1.57 | cum |
| | | | | | | | Total Qty | = | 1.57 cum | |

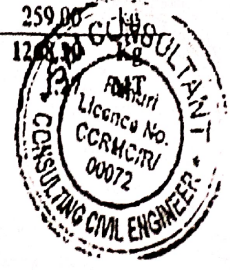
4 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

| | | | | | | | | | |
|------------------|---|---|------|---|------|---|------------------|----------|-----------------|
| Common Wash Room | 2 | x | 7.33 | x | 0.23 | x | 0.38 | = | 1.28 |
| | 3 | x | 3.10 | x | 0.23 | x | 0.38 | = | 0.81 |
| | | | | | | | Total Qty | = | 2.09 cum |

5 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, chujjas, 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.

| | | | | | | | |
|--------------|-------|---|--------|----|---|--------|----|
| For Pile | 12.60 | @ | 50.00 | Kg | = | 630.00 | Kg |
| For Pile cap | 1.46 | @ | 70.00 | Kg | = | 102.20 | Kg |
| For Coloumn | 1.57 | @ | 70.00 | Kg | = | 109.90 | Kg |
| For Beam | 2.09 | @ | 80.00 | Kg | = | 167.20 | Kg |
| For Slab | 2.59 | @ | 100.00 | kg | = | 259.00 | kg |

Total Qty = 1268.30 Kg
Say =



- 6 Providing second class Burnt Brick masonry with conventional/ S type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including balling out water manually, striking joint on non-exposed faces, raking out joints on exposed faces and watering etc. Complete.

| | | | | | | | | | | |
|--------------------------------|---|---|------|---|------|---|--------------|---|-------------|------------|
| Common Wash Room | 2 | x | 7.33 | x | 0.21 | x | 0.15 | = | 1.18 | cum |
| | 2 | x | 3.10 | x | 0.23 | x | 0.15 | = | 0.50 | |
| For Septic Tank Ladies & Gents | 1 | x | 2.50 | x | 0.23 | x | 1.20 | = | 0.69 | |
| | 3 | | 1.20 | | 0.23 | | 1.20 | = | 0.99 | |
| | | | | | | | Total | = | 3.36 | 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

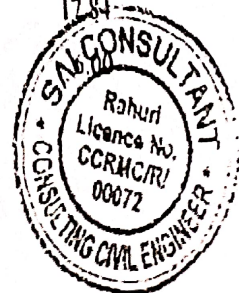
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|--|---|---|------|---|------|---|------------------|---|--------------|------------|
| Common Wash Room | 3 | x | 7.33 | x | 0.23 | x | 2.10 | = | 10.62 | cum |
| | 2 | x | 3.10 | x | 0.23 | x | 2.10 | = | 2.99 | cum |
| For Internal Partition Wall | 4 | x | 2.23 | x | 0.23 | x | 2.10 | = | 4.31 | |
| | 2 | x | 2.23 | x | 0.10 | x | 2.10 | = | 0.94 | |
| | | | | | | | Total | = | 18.86 | |
| Deduction For D2 Gents & Ladies Toilet | 3 | x | 0.75 | x | 0.10 | x | 2.10 | = | 0.47 | |
| Deduction For Ventilator Gents & Ladies Toilet | 3 | x | 0.45 | x | 0.23 | x | 0.60 | = | 0.19 | |
| | | | | | | | Total | = | 0.66 | |
| | | | | | | | Total Qty | = | 18.20 | 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.

| | | | | | | | | |
|--|---|---|------|---|------------------|---|--------------|------------|
| Common Wash Room | 2 | x | 7.33 | x | 3.00 | = | 43.98 | Sqm |
| | 2 | x | 3.10 | x | 3.00 | = | 18.60 | |
| | 2 | x | 2.23 | x | 3.00 | = | 13.38 | |
| | | | | | Total | = | 75.96 | |
| Deduction D2 Common Wash room | 3 | x | 0.75 | x | 2.10 | = | 4.73 | |
| Deduction For Ventilator Gents & Ladies Toilet | 3 | x | 0.45 | x | 0.60 | = | 0.81 | |
| | | | | | Total | = | 5.54 | |
| | | | | | Total Qty | = | 70.42 | Sqm |

- 9 Providing internal cement plaster 20mm. Thick in Single coats in cement mortar 1:3 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete.

| | | | | | | | | |
|---|---|---|------|---|------|---|-------|-----|
| Common Wash Room | 3 | x | 7.33 | x | 2.00 | = | 43.98 | Sqm |
| | 5 | x | 3.10 | x | 2.00 | = | 31.00 | |
| | 4 | x | 2.23 | x | 2.00 | = | 17.84 | |
| For Septic Tank Ladies & Gents Internal walls | 2 | x | 2.50 | x | 1.20 | = | | |



Page 3

| | | | | | | |
|--|---|---|------|---|--------------------|-------------------|
| For Septic Tank Ladies & Gents Internal Partition walls | 6 | x | 1.70 | x | 1.20 | 8.64 |
| | | | | | <u>Total</u> | 103.66 |
| Deduction D2 Common Wash room | 3 | x | 0.75 | x | 2.00 | 4.50 |
| Deduction For Ventilator Gents & Ladies Toilet | 3 | x | 0.45 | x | 0.60 | 0.81 |
| | | | | | <u>Total</u> | 5.31 |
| | | | | | Total Qty = | 102.15 Sqm |

10 Providing fine cement finish 1.5mm thick over green plaster surface including scaffolding curing etc. complete.

| | | | | | | |
|---|---|---|------|---|--------------------|------------------|
| For Water Tank Ladies & Gents Internal Side Wall | 3 | x | 7.33 | x | 1.20 | 26.39 |
| | 5 | x | 3.10 | x | 1.20 | 18.60 |
| | 4 | x | 2.23 | x | 1.20 | 10.70 |
| | 2 | x | 2.50 | x | 1.20 | 6.00 |
| | 6 | | 1.20 | | 1.20 | 8.64 |
| | | | | | <u>Total Qty =</u> | <u>70.33 Sqm</u> |

11 Providing neeru finish to plastered surfaces in all positions including scaffolding and curing etc. complete.

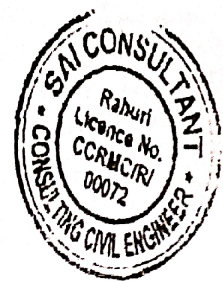
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|---|---|---|------|---|--------------------|------------------|
| Common Wash Room | 3 | x | 7.33 | x | 0.90 | 19.79 |
| | 5 | x | 3.10 | x | 0.90 | 13.95 |
| | 4 | | 2.23 | | 0.90 | 8.03 |
| | | | | | <u>Total</u> | <u>41.77</u> |
| Deduction D2 Common Wash room | 3 | | 0.75 | | 0.90 | 2.03 |
| Deduction For Ventilator Gents & Ladies Toilet | 3 | | 0.45 | | 0.60 | 0.81 |
| | | | | | <u>Total</u> | <u>2.84</u> |
| | | | | | Total Qty = | 38.93 Sqm |

12 Providing and applying washable powder distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces (excluding the priming coat) etc. complete.

| | | | | | | |
|----------------------------|--|--|--|--|--------------------|------------------|
| Qty Same As per Item no.11 | | | | | | 38.93 |
| | | | | | Total Qty = | 38.93 Sqm |

13 Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes 5 mm thick and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.

| | | | | | | |
|---------------------------|---|---|------|---|--------------------|-----------------|
| For Ladies & Gents Toilet | 2 | x | 0.45 | x | 0.60 | 0.54 |
| | | | | | Total Qty = | 0.54 Sqm |



14 Providing and Fixing 30x30x3mm thick THREESHOT PRELAMINATED GLASS PANEL PVF THIRUP SHEET FOR the top and bottom rails, M.S. frame shall have a coat of metal primer of approved make and manufacturer sheet of density 600 Kilogram/cbm, of size 30mm thickness 70mm width out of which 5mm shall be flat and 20mm shall be tapered in 45° angle on either side forming sides; and 5 nos thick, 95 mm wide PVF sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail Top, bottom and lock rail shall be provided either side of the panel. An additional 5 mm (+/-0.25) thick PVC strip of 20 mm width is to be stuck on the bottom side of the 'c' channel laminated paneling of 5 mm (+/-0.25) thick PVC sheet to be fitted inside the M.S. frame welded/ sealed to the styles and rails with 5 mm (+/-0.25) x 10 mm PVC sheet beading on either side and joined together with solvent cement adhesive etc. Door to be fixed to frames with 3 nos M.S. powder coated but hinges of size 100 mm x 25MM x 2mm using 12 mm long steel screws

| | | | | | | | | | |
|---------------------------|---|---|------|---|------|---|------------------|----------|-----------------|
| For Ladies & Gents Toilet | 2 | x | 0.75 | x | 2.10 | = | 3.15 | Sqm | |
| | | | | | | | Total Qty | = | 3.15 Sqm |

15 Providing and constructing Brick Masonry Inspection Chamber 60cm 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 with frame fixed in cement concrete with R.C.C. Cover medium duty 140Kilogram with frame etc complete.

| | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|------------------|----------|-----------------|
| For Ladies & Gents Toilet | 2 | | | | | | 2.00 | No. | |
| | | | | | | | Total Qty | = | 2.00 No. |

16 Providing and fixing Orissa Pan of size 580x445x260 mm with approved make flush valve including trap, C.I. soil and vent pipe upto outside face of wall including 100mm dia. C.I. plug, bend and necessary pipe connection. etc complete. As directed by Engineer in charge

| | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|------------------|----------|-----------------|
| For Ladies & Gents Toilet | 2 | | | | | | 2.00 | No. | |
| | | | | | | | Total Qty | = | 2.00 No. |

17 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, 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 mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

| | | | | | | | | | | |
|--------------------------------|---|---|------|---|------|---|------------------|----------|-----------------|-----|
| For Ladies & Gents Toilet | 1 | x | 7.33 | x | 3.10 | x | 0.100 | = | 2.27 | cum |
| | 1 | x | 2.80 | x | 1.50 | x | 0.075 | = | 0.32 | |
| For Septic Tank Ladies & Gents | | | | | | | | | | |
| | | | | | | | Total Qty | = | 2.59 cum | |

18 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two

| | | | | | | | | | |
|---------------------------|---|---|-------|--|--|--|------------------|----------|------------------|
| Qty Same As per Item No.8 | 1 | x | 70.42 | | | | - | 70.42 | Sqm |
| | | | | | | | Total Qty | = | 70.42 Sqm |



19 Excavation for foundation in earth, soil of all types, sand, gravel and soft morum, 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. (Litups 3.00 m.) By Manual Means

For Septic Tank Ladies & Gents 1 x 2.80 x 1.50 x 1.20 = 5.04 Cum
 Total Qty = 5.04 Cum

20 Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.

For Septic Tank Ladies & Gents 1 x 2.80 x 1.50 x 0.20 = 0.84 Cum
 Total Qty = 0.84 Cum

21 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, Steel centering, formwork, laying/pumping, compacting, roughening 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/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

For Septic Tank Ladies & Gents 1 x 2.80 x 1.50 x 0.10 = 0.42 Cum
 Plinth 1 x 7.33 x 3.10 x 0.08 = 1.70
 Total Qty = 2.12 Cum

22 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.

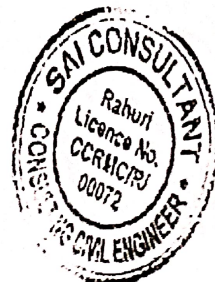
For Ladies & Gents Toilet Floor 1 x 6.87 x 2.64 x 0.3 = 5.44 Cum
 Total Qty = 5.44 Cum

23 Providing and fixing H.D.P container one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters

For Ladies & Gents Toilet Floor = 1000.00 Litre
 Total Qty = 1000.00 Litre

24 Providing and fixing 15 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete.

For Ladies & Gents Toilet Floor = 2.00 Nos
 Total Qty = 2.00 Nos



25 Providing and fixing coloured 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 connection including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.

For Ladies & Gents Toilet Floor

= 2.00 Nos
Total Qty = 2.00 Nos

26 Providing and fixing 10cm C.I. Nahani Trap including C.I. grating bend and piece of C.I. pipe upto the outside face of the wall complete.

For Ladies & Gents Toilet Floor

= 2.00 Nos
Total Qty = 2.00 Nos

27 Providing, laying and fixing P.V.C. pipe of 15mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.

For Ladies & Gents Toilet Floor

= 10.00 Rmt
Total Qty = 10.00 Rmt

28 Providing, laying and fixing P.V.C. pipe of 25mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.

For Ladies & Gents Toilet Floor

= 3.00 Rmt
Total Qty = 3.00 Rmt

23 Royalty Charges

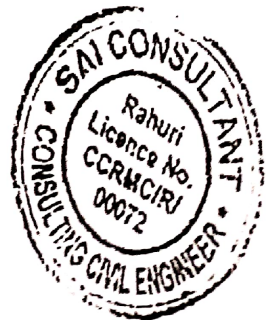
| Material | Qty | | | Qty of Material | | |
|---------------------------------------|-----|---|--------|-----------------|-----------|-------------|
| 1 Providing and laying cast in situ | 1 | x | 12.60 | x | 0.425 | = 5.36 Cum |
| 2 Providing and laying Cast in situ/ | 1 | x | 1.46 | x | 0.425 | = 0.62 Cum |
| 3 Providing and laying Cast in situ/ | 1 | x | 1.57 | x | 0.425 | = 0.67 Cum |
| 4 Providing and laying Cast in situ/ | 1 | x | 2.09 | x | 0.425 | = 0.89 Cum |
| 6 Providing second class Burnt | 1 | x | 3.36 | x | 0.320 | = 1.08 Cum |
| 7 Providing second class Burnt Bric | 1 | x | 18.20 | x | 0.320 | = 5.82 Cum |
| 8 Providing sand faced plaster exte | 1 | x | 70.42 | x | 0.033 | = 2.32 Cum |
| 9 Providing internal cement plaster | 1 | x | 102.15 | x | 0.024 | = 2.45 Cum |
| 15 Providing and constructing | 1 | x | 2.00 | x | 0.350 | = 0.70 Cum |
| Brick Masonry Inspection | | | | | | = 0.36 Cum |
| 16 Providing and fixing Orissa Pan | 1 | x | 2.00 | x | 0.180 | = 1.10 Cum |
| 17 Providing and laying Cast in | 1 | x | 2.59 | x | 0.425 | = 1.00 Cum |
| 21 Providing and laying Cast in situ/ | 1 | x | 2.12 | x | 0.470 | = 22.37 Cum |
| | | | | Sand | Total Qty | = 0.84 Cum |
| 20 Providing dry/ trap/ granite/ | | | 0.84 | x | 1.00 | = 5.44 Cum |
| 22 Filling in plinth and floors with | | | 5.44 | x | 1.00 | = 6.28 Cum |
| | | | | Hm and Rubble | Total Qty | |

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Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name of work :- Construction of Common Washroom Facility In G.no.868 Palki, For Yuvan Farmers Producer Co.ltd,At-Takli, Tal- Niphad,Dist: Nashik (MH)

Appendix - I
Lead Chart

| Sr. No. | Description | Rubble | Murum | Crush metal | Crush metal 40 mm above | Sand | Cement | Steel |
|---------|--|------------|--------|-------------|-------------------------|--------|--------|--------|
| 1 | 2 | 3 | 4 | 4 | 4 | 5 | 6 | 7 |
| | Source | Restricted | Local | Restricted | Restricted | Local | Local | Local |
| 1 | Average lead as per Quarry chart in km | 15.00 | 5.00 | 15.00 | 15.00 | 15.00 | 1.00 | 1.00 |
| 2 | Lead charges | 502.27 | 252.22 | 410.55 | 393.44 | 410.55 | 104.39 | 104.39 |
| 4 | Extra lead charges | 502.27 | 252.22 | 410.55 | 393.44 | 410.55 | 104.39 | 104.39 |
| 5 | Extra lead charges per bag of cement | | | | | | 5.22 | |

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