

GOVERNMENT OF BIHAR

PUBLIC HEALTH ENGINEERING DEPARTMENT

MODEL ESTIMATES

FOR

CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME

UNDER MUKHYAMANTRI GRAMIN PEYJAL YOJNA

FOR

100, 125, 150, 175, 200, 225 AND 250 HOUSEHOLDS

WITH

DIFFERENT TYPES OF TUBEWELLS

AND

8 Mtr. M.S.STAGING WITH 10000 Liters WATER STORAGE

FOR NON QUALITY AFFECTED AREAS

BASED ON NEW SOR EFFECTIVE FROM 27.09.2018

2019-20

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Various types of Model Estimates for Construction of Rural Piped Water Supply Schemes with 8 metre high Steel staging 10000 Ltr. water storage

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3	100	125mm X 75mm dia & 90M deep T/W for rocky strata	15.293	3	-	3
4	100	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	14.431	4	-	4
5	125	150mm X 90m deep Gravel packed T/W	16.717	5	-	5
6	125	125mm X 75mm dia & 90M deep T/W for alluvial soil	16.081	6	-	6
7	125	125mm X 75mm dia & 90M deep T/W for rocky strata	16.524	7	-	7
8	125	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	15.663	8	-	8
9	150	150mm X 90m deep Gravel packed T/W	17.727	9	-	9
10	150	125mm X 75mm dia & 125M deep T/W for alluvial soil	17.588	10	-	10
11	150	125mm X 75mm dia & 125M deep T/W for rocky strata	18.203	11	-	11
12	150	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	16.673	12	-	12
13	175	150mm X 90m deep Gravel packed T/W	18.908	13	-	13
14	175	125mm X 75mm dia & 125M deep T/W for alluvial soil	18.768	14	-	14
15	175	150mm X 100mm dia & 125M deep T/W for rocky strata	19.647	15	-	15
16	175	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	17.853	16	-	16
17	200	150mm X 90m deep Gravel packed T/W	20.247	17	-	17
18	200	150mm X 100mm dia & 125M deep T/W for alluvial soil	20.372	18	-	18

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20	200	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	19.192	20	-	20
21	225	150mm X 90m deep Gravel packed T/W	21.539	21	-	21
22	225	150mm X 100mm dia & 125M deep T/W for alluvial soil	21.665	22	-	22
23	225	150mm X 100mm dia & 125M deep T/W for rocky strata	22.279	23	-	23
24	225	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	20.485	24	-	24
25	250	150mm X 90m deep Gravel packed T/W	22.757	25	-	25
26	250	150mm X 100mm dia & 125M deep T/W for alluvial soil	22.882	26	-	26
27	250	150mm X 100mm dia & 125M deep T/W for rocky strata	23.496	27	-	27
28	250	200/165 mm dia 90 M deep drilled Tubewell by DTH Rig machine	21.702	28	-	28
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GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 100 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrubtion network of High Density Polyethyene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3a)	Rs.5,44,065.46
4	Supplying and installation, commissioning and testing of 2 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 1.5 to 2 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 40 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 40 mm dia N/R Valve, 40 mm dia flange and Supplying and installation of 6 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4a)	Rs.64,403.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5a)	Rs.2,12,300.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.15,33,256.46
Add 1% Contingency		Rs.15,332.56
G. TOTAL		Rs.15,48,589.02
Say		Rs.15,48,600.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

GOVERNMENT OF BIHAR
Public Health Engineering Department

ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 100 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 125mm X75mmx 90m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1b)	Rs.1,30,064.95
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3a)	Rs.5,44,065.46
4	Supplying and installation, commissioning and testing of 2 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 1.5 to 2 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 40 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 40 mm dia N/R Valve, 40 mm dia flange and Supplying and installation of 6 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4a)	Rs.64,403.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5a)	Rs.2,12,300.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.14,70,233.40
Add 1% Contingency		Rs.14,702.33
G. TOTAL		Rs.14,84,935.74
Say		Rs.14,84,900.00

note:

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- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

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NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 100 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 125mm X75mmx 90m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1e)	Rs.1,73,993.95
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate,20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3a)	Rs.5,44,065.46
4	Supplying and installation, commissioning and testing of 2 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 1.5 to 2 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 40 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 40 mm dia N/R Valve, 40 mm dia flange and Supplying and installation of 6 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4a)	Rs.64,403.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5a)	Rs.2,12,300.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.15,14,162.40
Add 1% Contingency		Rs.15,141.62
G. TOTAL		Rs.15,29,304.03
Say		Rs.15,29,300.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.15,29,300.00
(Rs. Fifteen Lakh Twenty nine Thousand Three Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 100 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3a)	Rs.5,44,065.46
4	Supplying and installation, commissioning and testing of 2 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 1.5 to 2 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 40 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 40 mm dia N/R Valve, 40 mm dia flange and Supplying and installation of 6 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4a)	Rs.64,403.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5a)	Rs.2,12,300.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.14,28,841.57
Add 1% Contingency		Rs.14,288.42
G. TOTAL		Rs.14,43,129.98
Say		Rs.14,43,100.00

note:

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- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.14,43,100.00
(Rs. Fourteen Lakh Forty three Thousand One Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 125 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3b)	Rs.5,83,703.89
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5b)	Rs.2,65,375.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.16,55,169.89
Add 1% Contingency		Rs.16,551.70
G. TOTAL		Rs.16,71,721.59
Say		Rs.16,71,700.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.16,71,700.00
(Rs. Sixteen Lakh Seventy one Thousand Seven hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 125 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 125 mm x75mmX 90m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1b)	Rs.1,30,064.95
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrbution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3b)	Rs.5,83,703.89
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5b)	Rs.2,65,375.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.15,92,146.83
Add 1% Contingency		Rs.15,921.47
G. TOTAL		Rs.16,08,068.30
Say		Rs.16,08,100.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.16,08,100.00
(Rs.Sixteen Lakh Eight Thousand One Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

7

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 125 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 125mm X75mmx 90m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1e)	Rs.1,73,993.95
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3b)	Rs.5,83,703.89
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5b)	Rs.2,65,375.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.16,36,075.83
Add 1% Contingency		Rs.16,360.76
G. TOTAL		Rs.16,52,436.59
Say		Rs.16,52,400.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.16,52,400.00
(Rs.Sixteen Lakh Fifty two Thousand Four Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 125 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico frnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 6M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3b)	Rs.5,83,703.89
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5b)	Rs.2,65,375.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.15,50,755.00
Add 1% Contingency		Rs.15,507.55
G. TOTAL		Rs.15,66,262.55
Say		Rs.15,66,300.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.15,66,300.00

(Rs. Fifteen Lakh Sixty six Thousand Three Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 150 HOUSE HOLDS WITH 8M STEEL STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3c)	Rs.6,30,650.32
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5c)	Rs.3,18,450.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.17,55,191.32
Add 1% Contingency		Rs.17,551.91
G. TOTAL		Rs.17,72,743.23
Say		Rs.17,72,700.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.17,72,700.00
(Rs. Seventeen Lakh Seventy two Thousand Seven Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 150 HOUSE HOLDS WITH 8M STEEL STRUCTURE STAGING

S.N.	Description	Total Amount
1	Construction of 125 mm x75mmX 125m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1c)	Rs.1,79,276.55
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrubtion network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3c)	Rs.6,30,650.32
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5c)	Rs.3,18,450.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.17,41,379.87
Add 1% Contingency		Rs.17,413.80
G. TOTAL		Rs.17,58,793.67
Say		Rs.17,58,800.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

(11)

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 150 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 125 mm x75mmX 125m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1f)	Rs.2,40,156.05
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrbution network of High Density Polyethyene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3c)	Rs.6,30,650.32
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5c)	Rs.3,18,450.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.18,02,259.37
Add 1% Contingency		Rs.18,022.59
G. TOTAL		Rs.18,20,281.96
Say		Rs.18,20,300.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.18,20,300.00
(Rs. Eighteen Lakh Twenty Thousand Three Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

MODEL No.-12

(12)

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 150 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrubtion network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3c)	Rs.6,30,650.32
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5c)	Rs.3,18,450.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.16,50,776.43
Add 1% Contingency		Rs.16,507.76
G. TOTAL		Rs.16,67,284.19
Say		Rs.16,67,300.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.16,67,300.00
(Rs. Sixteen Lakh Sixty seven Thousand Three Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

MODEL No.-13

(13)

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 175 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3d)	Rs.6,94,452.79
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5d)	Rs.3,71,525.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.18,72,068.79
Add 1% Contingency		Rs.18,720.69
G. TOTAL		Rs.18,90,789.48
Say		Rs.18,90,800.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.18,90,800.00
(Rs.Eighteen Lakh Ninety Thousand Eight Hundred) only

[Signature]
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GOVERNMENT OF BIHAR
Public Health Engineering Department

ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 175 HOUSE HOLDS

S.N.	Description	Total Amount
1	Construction of 125 mm x75mmX 125m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1c)	Rs.1,79,276.55
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrbution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3d)	Rs.6,94,452.79
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5d)	Rs.3,71,525.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.18,58,257.34
Add 1% Contingency		Rs.18,582.57
G. TOTAL		Rs.18,76,839.91
Say		Rs.18,76,800.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.18,76,800.00
(Rs. Eighteen Lakh Seventy six Thousand Eight Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

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NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 175 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x100mmx125m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1g)	Rs.2,66,312.55
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3d)	Rs.6,94,452.79
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5d)	Rs.3,71,525.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.19,45,293.34
Add 1% Contingency		Rs.19,452.93
G. TOTAL		Rs.19,64,746.27
Say		Rs.19,64,700.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.19,64,700.00

(Rs. Nineteen Lakh Sixty four Thousand Seven Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 175 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3d)	Rs.6,94,452.79
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5d)	Rs.3,71,525.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.17,67,653.90
Add 1% Contingency		Rs.17,676.54
G. TOTAL		Rs.17,85,330.44
Say		Rs.17,85,300.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

17

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 200 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3e)	Rs.7,73,921.53
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5e)	Rs.4,24,600.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.20,04,612.53
Add 1% Contingency		Rs.20,046.13
G. TOTAL		Rs.20,24,658.65
Say		Rs.20,24,700.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.20,24,700.00
(Rs.Twenty Lakh Twenty four Thousand Seven Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department

ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 200 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x100mmx125m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1d)	Rs.2,05,505.05
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3e)	Rs.7,73,921.53
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5e)	Rs.4,24,600.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.20,17,029.58
Add 1% Contingency		Rs.20,170.30
G. TOTAL		Rs.20,37,199.87
Say		Rs.20,37,200.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
 - ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
 - iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.
- Variable inter alia includes**
- i) Hydro geomorphological condition.
 - ii) Location of source vis-à-vis population/ house holds.
 - iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.20,37,200.00
(Rs. Twenty Lakh Thirty seven Thousand Two Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

19

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 200 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x100mmx125m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1g)	Rs.2,66,312.55
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethyene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3e)	Rs.7,73,921.53
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5e)	Rs.4,24,600.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.20,77,837.08
Add 1% Contingency		Rs.20,778.37
G. TOTAL		Rs.20,98,615.45
Say		Rs.20,98,600.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.20,98,600.00
(Rs. Twenty Lakh Ninety Eight Thousand Six Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 200 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3e)	Rs.7,73,921.53
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5e)	Rs.4,24,600.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.19,00,197.64
Add 1% Contingency		Rs.19,001.98
G. TOTAL		Rs.19,19,199.61
Say		Rs.19,19,200.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.19,19,200.00
(Rs. Nineteen Lakh Nineteen Thousand Two Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

21

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 225 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3f)	Rs.8,48,847.97
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5f)	Rs.4,77,675.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.21,32,613.97
Add 1% Contingency		Rs.21,326.14
G. TOTAL		Rs.21,53,940.11
Say		Rs.21,53,900.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.21,53,900.00
(Rs. Twenty one Lakh Fifty three Thousand nine Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

22

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 225 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x 100mm x 125m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1d)	Rs.2,05,505.05
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrubtion network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3f)	Rs.8,48,847.97
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5f)	Rs.4,77,675.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.21,45,031.02
Add 1% Contingency		Rs.21,450.31
G. TOTAL		Rs.21,66,481.33
Say		Rs.21,66,500.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.21,66,500.00

(Rs. Twenty one Lakh Sixty six Thousand Five Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 225 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x100mmx125m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1g)	Rs.2,66,312.55
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3f)	Rs.8,48,847.97
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5f)	Rs.4,77,675.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.22,05,838.52
Add 1% Contingency		Rs.22,058.39
G. TOTAL		Rs.22,27,896.90
Say		Rs.22,27,900.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.22,27,900.00
(Rs. Twenty two Lakh Twenty seven Thousand Nine Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

MODEL No.-24

24

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 225 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distrbution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3f)	Rs.8,48,847.97
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5f)	Rs.4,77,675.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.20,28,199.08
Add 1% Contingency		Rs.20,281.99
G. TOTAL		Rs.20,48,481.07
Say		Rs.20,48,500.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.20,48,500.00
(Rs.Twenty Lakh Forty eight Thousand Five Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

25

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 250 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm X 90m deep Gravel packed T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1a)	Rs.1,93,088.00
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3g)	Rs.9,16,315.21
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5g)	Rs.5,30,750.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.22,53,156.21
Add 1% Contingency		Rs.22,531.56
G. TOTAL		Rs.22,75,687.77
Say		Rs.22,75,700.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.22,75,700.00
(Rs. Twenty two Lakh Seventy five Thousand Seven Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

26

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 250 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x 100mm x 125m deep T/W etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1d)	Rs.2,05,505.05
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico finished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3g)	Rs.9,16,315.21
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5g)	Rs.5,30,750.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.22,65,573.26
Add 1% Contingency		Rs.22,655.73
G. TOTAL		Rs.22,88,228.99
Say		Rs.22,88,200.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.22,88,200.00
(Rs. Twenty two Lakh Eighty eight Thousand Two Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 250 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 150mm x100mmx125m deep T/W for rocky strata etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1g)	Rs.2,66,312.55
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3g)	Rs.9,16,315.21
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5g)	Rs.5,30,750.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.23,26,380.76
Add 1% Contingency		Rs.23,263.81
G. TOTAL		Rs.23,49,644.56
Say		Rs.23,49,600.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.23,49,600.00
(Rs. Twenty three Lakh Forty nine Thousand Six Hundred) only

GOVERNMENT OF BIHAR
Public Health Engineering Department
ABSTRACT OF COST

28

NAME OF WORK:- CONSTRUCTION OF RURAL PIPED WATER SUPPLY SCHEME FOR WARD HAVING 250 HOUSE HOLDS WITH 8M STAGING

S.N.	Description	Total Amount
1	Construction of 200/165 mm dia. 90 Mtr deep Drilled High Yield Tubewell By DTH RIG Machine with Blue casing U.P.V.C. Pipe etc. all complete and as per direction of E/I. (As per sub Estimate no.- 1h)	Rs.88,673.11
2	Constructing masonry Chamber 100x100x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Tube Well, and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:2:4(1 cement : 2 fine sand : 4 graded stone aggregate 20 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick with 5% cico fnished with a floating coat of neat cement, out side plastering with cement mortar 1:4 (1 cement : 4coarse sand) 12 mm thick complete as per standard specifications & direction of E/I. (As per sub Estimate no.- 2)	Rs.13,800.00
3	Providing and Laying Distribution network of High Density Polyethylene pipe (HDPE pipe) including 10000 liter PVC tank installed at 8M high MS staging etc all complete as per direction of E/I. (As per sub Estimate no.- 3g)	Rs.9,16,315.21
4	Supplying and installation, commissioning and testing of 3 HP Single phase Submersible pump and motor of KSB/Kirloskar or equivalent make having discharge of 2.5 to 3.35 lps against a total head of 35 m including doing power and light wiring SUPPLYING & FITTING service wire extension of L T line (0.3Km) & 65 mm dia G I medium class column pipe, 65mm dia Riser pipe (L), 65 mm dia N/R Valve, 65 mm dia flange and Supplying and installation of 7.5 KVA Stabilizer, taking single phase connection, Meter Board, Starter including power wiring all complete job etc all complete as per direction of E/I. (As per sub Estimate no.- 4b)	Rs.93,603.00
5	Providing house connection for each house hold including supplying all materials, labours, tools and making ferrule connection with 20 mm dia MDPE and 15mm CPVC Pipes with all fittings etc all complete. (As per sub Estimate no.- 5g)	Rs.5,30,750.00
6	Providing and erecting 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached. (As per sub Estimate no.- 6b)	Rs.5,05,600.00
TOTAL		Rs.21,48,741.32
Add 1% Contingency		Rs.21,487.41
G. TOTAL		Rs.21,70,228.73
Say		Rs.21,70,200.00

note:

- i) Road cutting cost may increase or decrease as per actuals.
- ii) Strongly advised that pipeline should be laid before construction of Naali-Gali.
- iii) This is a model estimate. Hence the quantity may increase or decrease based on actual site conditions.

Variable inter alia includes

- i) Hydro geomorphological condition.
- ii) Location of source vis-à-vis population/ house holds.
- iii) Quality of works and materials shall be maintained as per standard specifications and direction of E/I.

Technical approval accorded for Rs.21,70,200.00
(Rs. Twenty one Lakh Seventy Thousand Two Hundred) only

(Sub Estimate - 1a)

For HH-100, 125, 150, 175, 200, 225 & 250

(A) Construction of 150mm X 90m deep Gravel packed T/W					
S. No.	Particulars	Quantity	Unit	Rate	Amount
1	Transportation of machine, equipments including all accessories etc.	1 No.	Each	Rs.1,010.00	Rs.1,010.00
2	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (All types of soil)				
24.1.1.3	400mm dia bore from GL to 90.0M	90 Mtr.	P/M	Rs.544.20	Rs.48,978.00
3A	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
24.3.2	(a) 150 mm nominal size dia	59 M	P/M	Rs.612.80	Rs.36,155.20
3B	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC (UPVC) medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
24.4.2	150 mm nominal size dia	30.0 M	P/M	Rs.566.70	Rs.17,001.00
4	Supplying fitting & fixing the following Fitting of approved make and specification at work site complete job.				
	(a) 150mm center guide Nos. in each T/W	9 Nos.	Each	Rs.150.00	Rs.1,350.00
	(b) 150 mm dia well plug	1 No	Each	Rs.248.60	Rs.248.60
	(b) 150 mm dia M.S. Clamp 1.6 M long (one Pair)	1 No	Each	Rs.1,190.00	Rs.1,190.00
5	Gravel packing in tubewell construction in accordance with IS:4097,including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	11 M ³	P/M ³	Rs.1,225.10	Rs.13,476.10
6	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*01	11.0 M ³	P/M ³	Rs.6,379.26	Rs.70,171.87
7	Supplying all materials laobours and equipments to seal T/W up to the depth of 12 mtr below G.L. by Sticky clay to prevent contamination from surface from all complete job.				

8	Supplying all materials laobours and equipments including 150mm dia G.I. Cap /C.I. Cap over the casing of 150mm dia T/W properly all complete.	1 No.	Each	Rs.196.10	Rs.196.10
9	Carriage of necessary equipment & materials.	1 No.	Each	Rs.287.50	Rs.287.50
10	Supplying all tools equipments & labour for flushing washing and developing the T/W to give clean & clear water and all complete job as per direction of E/I.	5 H	P / H	Rs.594.60	Rs.2,973.00
				TOTAL	Rs.1,93,088.38
				Say	Rs.1,93,088.00

(Handwritten marks and signatures)

(Sub Estimate - 1b)

For HH-100 & 125

CONSTRUCTION OF 125MM X 75MM DIA & 90M DEEP TUBE WELL

S.No.	Description	Qty.	Unit	Rate	Amount
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (All types of soil)				
24.1.1.1	(a) 300mm dia bore from G.L. to 90.0M	90.0 M	P/M	Rs.388.70	Rs.34,983.00
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	(b) 125 mm nominal size dia	30.0 M	P/M	Rs.462.50	Rs.13,875.00
24.3.5	(b) 80 mm nominal size dia	34.0 M	P/M	Rs.375.40	Rs.12,763.60
24.4.5	(c) 80 mm dia U.P.V.C. strainer	21.0 M	P/M	Rs.480.00	Rs.10,080.00
3	Providing all materials, tools & labours and fixing the following fittings etc. all complete as per specification & direction of E/I.				
	(a) 125 mm dia P.V.C. well cap	1 No.	Each	Rs.166.60	Rs.166.60
	(b) 125 mm dia center guide	4 Nos.	Each	Rs.100.00	Rs.400.00
	(c) 80 mm dia center guide	6 Nos.	Each	Rs.75.00	Rs.450.00
	(d) 80 mm dia P.V.C. pipe shoe plug	1 No.	Each	Rs.185.00	Rs.185.00
	(e) 125mm x 80 mm dia P.V.C. Reducer	1 No.	Each	Rs.475.00	Rs.475.00
	(d) 125mm dia M.S.Clamp	1 No.	Each	Rs.974.60	Rs.974.60
4a	Gravel packing in tubewell construction in accordance				
24.6	with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	6.5 M ³	P/M ³	Rs.1,225.10	Rs.7,963.15
4b	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*01	6.5 M ³	P/M ³	Rs.6,379.26	Rs.41,465.20
5	Development of tube well in accordance with IS : 2800				
24.12	(part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water sample & getting tested in approved laboratory, disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	3 Hrs.	Each	Rs.594.60	Rs.1,783.80
6	Supplying all materials and labours for arrangement for additional water required during the drilling period for 40 Hrs & site clearance & leveling etc. And providing the soap duster etc. to staff engaged in drilling etc. all complete work as per specification & direction of E.I..	1 No.	Each	Rs.4,500.00	Rs.4,500.00

(Sub Estimate - 1c)

For HH- 150, 175

CONSTRUCTION OF 125MM X 75MM DIA & 125M DEEP TUBE WELL

S.No.	Description	Qty.	Unit	Rate	Amount
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (All types of soil)				
24.1.1.1	(a) 300mm dia bore from G.L. to 30.0M	30.0 M	P/M	Rs.388.70	Rs.11,661.00
	(b) 300mm dia bore from 30.0 m to 60.0M	30.0 M	P/M	Rs.388.70	Rs.11,661.00
	(c) 300mm dia bore from 60M to 90.0M	30.0 M	P/M	Rs.388.70	Rs.11,661.00
24.2.1.1	(d) 300mm dia bore from 90.0M to 150.0M	35.0 M	P/M	Rs.453.50	Rs.15,872.50
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	(b) 125 mm nominal size dia	30.0 M	P/M	Rs.462.50	Rs.13,875.00
24.3.5	(b) 80 mm nominal size dia	69.0 M	P/M	Rs.375.40	Rs.25,902.60
24.4.5	(c) 80 mm dia U.P.V.C. strainer	21.0 M	P/M	Rs.480.00	Rs.10,080.00
3	Providing all materials, tools & labours and fixing the following fittings etc. all complete as per specification & direction of E/I.				
	(a) 125 mm dia P.V.C. well cap	1 No.	Each	Rs.166.60	Rs.166.60
	(b) 125 mm dia center guide	4 Nos.	Each	Rs.100.00	Rs.400.00
	(c) 80 mm dia center guide	6 Nos.	Each	Rs.75.00	Rs.450.00
	(d) 80 mm dia P.V.C. pipe shoe plug	1 No.	Each	Rs.185.00	Rs.185.00
	(e) 125mm x 80 mm dia P.V.C. Reducer	1 No.	Each	Rs.475.00	Rs.475.00
	(d) 125mm dia M.S.Clamp	1 No.	Each	Rs.974.60	Rs.974.60
4a 24.6	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	9.0 M ³	P/M ³	Rs.1,225.10	Rs.11,025.90
4b	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*01	9.0 M ³	P/M ³	Rs.6,379.26	Rs.57,413.35
5 24.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water sample & getting tested in approved laboratory, disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	5 Hrs.	Each	Rs.594.60	Rs.2,973.00
6	Supplying all materials and labours for arrangement for additional water required during the drilling period for 40 Hrs & site clearance & leveling etc. And providing the soap duster etc. to staff engaged in drilling etc. all complete work as per specification & direction of E.I..	1 No.	Each	Rs.4,500.00	Rs.4,500.00

(Sub Estimate - 1d)

For HH-200, 225, 250

CONSTRUCTION OF 150MM X 100MM DIA & 125M DEEP TUBE WELL

S.No.	Description	Qty.	Unit	Rate	Amount
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (All types of soil)				
24.1.1.2	(a) 350mm dia bore from G.L. to 30.0M	30.0 M	P/M	Rs.425.10	Rs.12,753.00
24.1.1.1	(b) 300mm dia bore from 30.0 m to 60.0M	30.0 M	P/M	Rs.388.70	Rs.11,661.00
	(c) 300mm dia bore from 60M to 90.0M	30.0 M	P/M	Rs.388.70	Rs.11,661.00
24.2.1	(d) 300mm dia bore from 90.0M to 150.0M	35.0 M	P/M	Rs.453.50	Rs.15,872.50
2A	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
24.3.2	(a) 150 mm nominal size dia	30.0 M	P/M	Rs.612.80	Rs.18,384.00
24.3.1	(b) 100 mm nominal size dia	60.0 M	P/M	Rs.309.90	Rs.18,594.00
2B	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC (UPVC) medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
24.4.1	100 mm nominal size dia	30.0 M	P/M	Rs.479.50	Rs.14,385.00
3	Supplying the following fittings & fixing the same in position as per approved lowering assembly and strata chart including providing all equipments and welding the same on process of lowering the assay etc. all complete as per S/D of E/I.				
24.13.2	(a) 150 mm dia well cap	1 No.	Each	Rs.196.10	Rs.196.10
24.14.2	(b) 150 mm dia M.S. Clamp 1.6 M long (one Pair)	1 No.	Each	Rs.1,190.00	Rs.1,190.00
	(c) 150 mm dia center guide	4 Nos.	Each	Rs.150.00	Rs.600.00
	(d) 100 mm dia center guide	6 Nos.	Each	Rs.100.00	Rs.600.00
	(e) 150 mm x 100 mm dia 6mm wall thickness MS reducer	1 No.	Each	Rs.500.00	Rs.500.00
24.15.1	(f) 100mm dia & 6mm thick M.S. well shoe plug	1 No.	Each	Rs.198.80	Rs.198.80
4a	Gravel packing in tubewell construction in accordance with				
24.6	IS:4097,including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	9.0 M ³	P/M ³	Rs.1,225.10	Rs.11,025.90
4b	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*0.1	9.0 M ³	P/M ³	Rs.6,379.26	Rs.57,413.35
5	Development of tube well in accordance with IS : 2800 (part				
24.12	l) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water sample & getting tested in approved laboratory, disinfection of tubewell, all complete,including				

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S.No.	Description	Qty.	Unit	Rate	Amount
6	Transportation of drilling plants, developing equipments & all other required tools and M/c by and suitable mechanical means including all cost of loading, unloading, placing at work site and back after completion of work as per S/D of E/I	1 No.	Each	Rs.9,200.00	Rs.9,200.00
7	Supplying all materials and labours for arrangement for additional water required during the drilling period for 70 Hrs & site clearance & leveling etc. And providing the soap duster etc. to staff engaged in drilling etc. all complete work as per specification & direction of E.I.	1 No.	Each	Rs.7,000.00	Rs.7,000.00
TOTAL					<u>Rs.2,05,505.05</u>

W *for* *✓* *Shankar*
11/4

(Sub Estimate - 1e)

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For HH-100, 125

**CONSTRUCTION OF 125MM X 75MM DIA & 90M DEEP TUBE WELL
(For Rocky strata including Boulders)**

S.No.	Description	Qty.	Unit	Rate	Amount	
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (Rocky strata including Boulders)					
24.1.2.1	(a) 300mm dia bore from G.L. to 90.0M	90.0 M	P/M	Rs.876.80	Rs.78,912.00	
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.					
	(b) 125 mm nominal size dia	30.0 M	P/M	Rs.462.50	Rs.13,875.00	
24.3.5	(b) 80 mm nominal size dia	34.0 M	P/M	Rs.375.40	Rs.12,763.60	
24.4.5	(c) 80 mm dia U.P.V.C. strainer	21.0 M	P/M	Rs.480.00	Rs.10,080.00	
3	Providing all materials, tools & labours and fixing the following fittings etc. all complete as per specification & direction of E/I.					
	(a) 125 mm dia P.V.C. well cap	1 No.	Each	Rs.166.60	Rs.166.60	
	(b) 125 mm dia center guide	4 Nos.	Each	Rs.100.00	Rs.400.00	
	(c) 80 mm dia center guide	6 Nos.	Each	Rs.75.00	Rs.450.00	
	(d) 80 mm dia P.V.C. pipe shoe plug	1 No.	Each	Rs.185.00	Rs.185.00	
	(e) 125mm x 80 mm dia P.V.C. Reducer	1 No.	Each	Rs.475.00	Rs.475.00	
	(d) 125 mm dia M.S.Clamp	1 No.	Each	Rs.974.60	Rs.974.60	
4a	Gravel packing in tubewell construction in accordance with					
24.6	IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	6.5 M ³	P/M ³	Rs.1,225.10	Rs.7,963.15	
4b	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*01	6.5 M ³	P/M ³	Rs.6,379.26	Rs.41,465.20	
5	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water sample & getting tested in approved laboratory, disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	3 Hrs.	Each	Rs.594.60	Rs.1,783.80	
24.12	6	Supplying all materials and labours for arrangement for additional water required during the drilling period for 40 Hrs & site clearance & leveling etc. And providing the soap duster etc. to staff engaged in drilling etc. all complete work as per specification & direction of E.I..	1 No.	Each	Rs.4,500.00	Rs.4,500.00

CONSTRUCTION OF 125 MM X 75MM DIA & 125M DEEP TUBE WELL

(For Rocky strata including Boulders)

S.No.	Description	Qty.	Unit	Rate	Amount	
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (Rocky strata including Boulders)					
24.1.1.1	(a) 300mm dia bore from G.L. to 30.0M	30.0 M	P/M	Rs.876.80	Rs.26,304.00	
	(b) 300mm dia bore from 30.0 m to 60.0M	30.0 M	P/M	Rs.876.80	Rs.26,304.00	
	(c) 300mm dia bore from 60M to 90.0M	30.0 M	P/M	Rs.876.80	Rs.26,304.00	
24.2.1.1	(d) 300mm dia bore from 90.0M to 150.0M	35.0 M	P/M	Rs.937.80	Rs.32,823.00	
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.					
	(b) 125 mm nominal size dia	30.0 M	P/M	Rs.462.50	Rs.13,875.00	
24.3.5	(b) 80 mm nominal size dia	69.0 M	P/M	Rs.375.40	Rs.25,902.60	
24.4.5	(c) 80 mm dia U.P.V.C. strainer	21.0 M	P/M	Rs.480.00	Rs.10,080.00	
3	Providing all materials, tools & labours and fixing the following fittings etc. all complete as per specification & direction of E/I.					
	(a) 125 mm dia P.V.C. well cap	1 No.	Each	Rs.166.60	Rs.166.60	
	(b) 125 mm dia center guide	4 Nos.	Each	Rs.100.00	Rs.400.00	
	(c) 80 mm dia center guide	6 Nos.	Each	Rs.75.00	Rs.450.00	
	(d) 80 mm dia P.V.C. pipe shoe plug	1 No.	Each	Rs.185.00	Rs.185.00	
	(e) 125mm x 80 mm dia P.V.C. Reducer	1 No.	Each	Rs.475.00	Rs.475.00	
24.14.1	(d) 125mm dia M.S.Clamp	1 No.	Each	Rs.974.60	Rs.974.60	
4a	Gravel packing in tubewell construction in accordance with					
24.6	IS:4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	9.0 M ³	P/M ³	Rs.1,225.10	Rs.11,025.90	
4b	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*01	9.0 M ³	P/M ³	Rs.6,379.26	Rs.57,413.35	
5	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water sample & getting tested in approved laboratory, disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	5 Hrs.	Each	Rs.594.60	Rs.2,973.00	
24.12	6	Supplying all materials and labours for arrangement for additional water required during the drilling period for 40 Hrs & site clearance & leveling etc. And providing the soap duster etc. to staff engaged in drilling etc. all complete work as per specification & direction of E.I..	1 No.	Each	Rs.4,500.00	Rs.4,500.00
TOTAL					Rs.2,40,156.05	

(Sub Estimate - 1g)

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For HH-200, 225, 250

**CONSTRUCTION OF 150MM X 100MM DIA & 125M DEEP TUBE WELL
(For Rocky strata including Boulders)**

S.No.	Description	Qty.	Unit	Rate	Amount
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (Rocky strata including Boulders)				
24.1.2.2 (a)	350mm dia bore from G.L. to 30.0M	30.0 M	P/M	Rs.910.80	Rs.27,324.00
24.1.1.1 (b)	300mm dia bore from 30.0 m to 60.0M	30.0 M	P/M	Rs.876.80	Rs.26,304.00
	(c) 300mm dia bore from 60M to 90.0M	30.0 M	P/M	Rs.876.80	Rs.26,304.00
24.2.1 (d)	300mm dia bore from 90.0M to 150.0M	35.0 M	P/M	Rs.937.80	Rs.32,823.00
2A	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
24.3.2 (a)	150 mm nominal size dia	30.0 M	P/M	Rs.612.80	Rs.18,384.00
24.3.1 (b)	100 mm nominal size dia	60.0 M	P/M	Rs.309.90	Rs.18,594.00
2B	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC (UPVC) medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
24.4.1	100 mm nominal size dia	30.0 M	P/M	Rs.479.50	Rs.14,385.00
3	Supplying the following fittings & fixing the same in position as per approved lowering assembly and strata chart including providing all equipments and welding the same on process of lowering the assay etc. all complete as per S/D of E/I.				
24.13.2 (a)	150 mm dia well cap	1 No.	Each	Rs.196.10	Rs.196.10
24.14.2 (b)	150 mm dia M.S. Clamp 1.6 M long (one Pair)	1 No.	Each	Rs.1,190.00	Rs.1,190.00
	(c) 150 mm dia center guide	4 Nos.	Each	Rs.150.00	Rs.600.00
	(d) 100 mm dia center guide	6 Nos.	Each	Rs.100.00	Rs.600.00
	(e) 150 mm x 100 mm dia 6mm wall thickness MS reducer	1 No.	Each	Rs.500.00	Rs.500.00
24.15.1 (f)	100mm dia & 6mm thick M.S. well shoe plug	1 No.	Each	Rs.198.80	Rs.198.80
4a	Gravel packing in tubewell construction in accordance with				
24.6	IS:4097,including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	9.0 M ³	P/M ³	Rs.1,225.10	Rs.11,025.90
4b	Carriage of Pea Gravel from Dalbhumigarh to Patna (taken av distance 395+ 5km.) {8/5 (395 x 9.40+ 5 X 22.80) + 192.90}*01	9.0 M ³	P/M ³	Rs.6,379.26	Rs.57,413.35

S.No.	Description	Qty.	Unit	Rate	Amount
5 24.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water sample & getting tested in approved laboratory, disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	24 Hrs.	Each	Rs.594.60	Rs.14,270.40
6	Transportation of drilling plants, developing equipments & all other required tools and M/c by and suitable mechanical means including all cost of loading, unloading, placing at work site and back after completion of work as per S/D of E/I	1 No.	Each	Rs.9,200.00	Rs.9,200.00
7	Supplying all materials and labours for arrangement for additional water required during the drilling period for 70 Hrs & site clearance & leveling etc. And providing the soap duster etc. to staff engaged in drilling etc. all complete work as per specification & direction of E.I.	1 No.	Each	Rs.7,000.00	Rs.7,000.00
				TOTAL	<u>Rs.2,66,312.55</u>

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(Sub Estimate - 1h)					
For HH-100, 125, 150, 175, 200, 225, 250					
MODEL ESTIMATE OF CONSTRUCTION OF 200/165 MM DIA. 90 MTR DEEP DRILLED HIGH YIELD TUBEWELL BY DTH RIG MACHINE WITH BLUE CASING U.P.V.C. PIPE					
S. NO.	Particulars	Quantity	unit	Rate	Amount
1(A)	Drilling of 200mm x 165mm x 125 meter deep borewell in all kinds of soil and rock in rural area for installation of pump set with Hydaraulic DTH Rig machine, all complete including supplying all materials, tools, drilling rig, Air Compressor and equipments, as well as fuel, lubricants and cost of transportation of Rig machine and other vehicles up to the site etc all complete as per specification and direction of E/I.				
	(i) Up to 50 mtrs depth below GL	50	P/M	Rs.729.52	Rs.36,476.00
	(ii) Beyond 50 mtrs. Up to 90 Mtrs.	40	P/M	Rs.867.88	Rs.34,715.20
2 24.3.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC (UPVC) medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. (200mm dia)	24	P/M	Rs.654.00	Rs.15,696.00
3	Supplying labour, cement and calcium chloride or betonites solution and equipments for grouting to casing pipe as per specification and direction of E/I.	1	Each	Rs.51.01	Rs.51.01
4	Supplying all tools labors and equipments and doing washing fiushing & developing of drilled tube well to give clean and clear water (min. 2.50 Hours)all complete as per direction of E/I.	2.5	P/Hr	Rs.594.60	Rs.1,486.50
5	Supplying labors and equipments including 200 mm dia M.S. Cap & Fitting & Fixing over the tube well properly and taking out as per direction of E/I.	1	Each	Rs.248.40	Rs.248.40
TOTAL					Rs.88,673.11

[Handwritten signatures and dates]
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(Sub Estimate - 2)

Chamber for TW

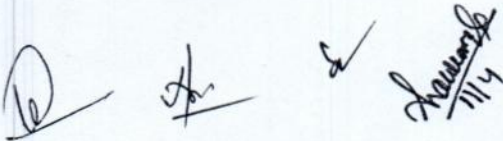
For HH-100, 125, 150, 175, 200, 225 & 250

Supplying materials, labours and constructing chamber of following dimension having 250mm thick wall in C.M. (1:4) including 12mm C.P. (1:3) with punning inside, R.C.C. cover slab with C.I. Surface box, 20mm dia foot rest at 150mm interval 10mm dia lifting ring etc. all complete.

SIZE	1.00 M	x	1.00 M	x	0.75 M deep
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S.O.R. No.	Particulars	No.	L	W	H	Qty.	Unit	Rate	Amount
1	Earth work in excavation	1	1.75	1.75	1.0	3.063 M ³	P/M ³	Rs.319.60	Rs.978.78
S.O.R. No. 2.8									
2	Sand filling	1	1.75	1.75	0.075	0.230 M ³	P/M ³	Rs.238.60	Rs.54.80
S.O.R. No. 2.28									
3	Brick flat soling	1	1.75	1.75		3.063 M ²	P/M ²	Rs.277.50	Rs.849.84
S.O.R. 11.72									
4	P.C.C. (1:2:4) in foundation	1	1.75	1.75	0.10	0.306 M ³			
S.O.O. 4.1.3									
5	B/Work in (1:4) C.M.	2	2.50	0.25	0.75	0.306 M ³	P/M ³	Rs.4,151.40	Rs.1,271.37
S.O.R. No. 6.1.12/1						0.938 M ³	P/M ³	Rs.5,037.20	Rs.4,722.38
6	R.C.C. Cover slab(1:1.5:3)	1	1.50	1.50	0.15	0.338 M ³	P/M ³	Rs.5,723.30	Rs.1,931.61
S.O.R. No. 5.2.2 & 5.9.3									
	shuttering	2	1.50+1.50	0.15		0.9 M ²	P/M ²	Rs.186.30	Rs.167.67
7	C.P. (1:3) with 5% Cico & neat cement								
S.O.R. Internal face		2	1.00	1.00	1.00	4.00 M ²			
No. 13.17.1	Bed surface	1	1.00	1.00		1.00 M ²			
+13.36.1						5.00 M ²	P/M ²	Rs.199.00	Rs.995.00
8	C.P. (1:4) out side of wall	2	1.50+1.50	0.00		0.9 M ²	P/M ²	Rs.139.90	Rs.125.91
S.O.R. No. 13.11.2									
9	8mm dia T.S. Rod								
S.O.R. No. 5.22.7A									
			0.338 M ³ x	70 Kg/ M3		23.625 Kg.	P/Kg	Rs.77.40	Rs.1,828.58
10	Lifting Ring of 10mm dia Rod					4 No.	Each	Rs.45.00	Rs.180.00
11	Carriage of materials 5%								
								Total	Rs.13,105.93
									Rs.655.30
									<u>Rs.13,761.23</u>

Say Rs.13,800.00



Sub Est. No. 3a

For HH-100

WATER SUPPLY DISTRIBUTION SYSTEM

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S.N.	Particulars	Quantity	Unit	Rate	Amount
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.				
	90mm dia Pipe	0.00	0.30	1.10 =	0.00
	75mm dia Pipe	200.00	0.30	1.10 =	66.00
	63mm dia Pipe	200.00	0.30	1.10 =	66.00
	50mm dia Pipe	400.00	0.30	1.10 =	132.00
	40mm dia Pipe	400.00	0.30	1.10 =	132.00
					396.00 M ³
	Add 5% extra for fittings =				19.80 M ³
		415.80	M ³	P/M ³	Rs.319.60
		13.47	M ³	P/M ³	Rs.4,958.60
					Rs.1,32,889.68
1B	Provision for PCC road cutting and its restoration	13.47	M ³	P/M ³	Rs.66,801.86
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	407.48	M ³	P/M ³	Rs.103.30
					Rs.42,093.10
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68
					Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13
					Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40
					Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.				
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)				
	90mm dia Pipe	0.00	M	P/M	Rs.340.84
					Rs.0.00
	75mm dia Pipe	200.00	M	P/M	Rs.239.81
					Rs.47,962.00
	63mm dia Pipe	200.00	M	P/M	Rs.168.77
					Rs.33,754.00
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)				
	50mm dia Pipe	400.00	M	P/M	Rs.89.99
					Rs.35,996.00
	40mm dia Pipe	400.00	M	P/M	Rs.59.78
					Rs.23,912.00
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.				
	5% of the cost of HDPE Pipe				Rs.7,081.20
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
18.17					
	80mm dia Pipe	2	Nos. Each	Rs.2,062.70	Rs.4,125.40
	65mm dia Pipe	3	Nos. Each	Rs.1,383.70	Rs.4,151.10
	50mm dia Pipe	2	Nos. Each	Rs.926.20	Rs.1,852.40

S.N.	Particulars	Quantity	Unit	Rate	Amount	
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00	
5 18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20	
	Work for additional depth					
	Brick work (1:4) in foundation					
	2 1.10 0.25 0.35 0.193					
	2 0.60 0.25 0.35 0.105					
		0.298	1.190 M ³	P/M ³	Rs.5,037.20	Rs.5,994.27
	Plaster (1:3)(13.11.1)					
	8 1.10 0.35 3.08	12.32	M ²	P/M ²	Rs.153.60	Rs.1,892.35
6	Carriage 10% of item 5				Rs.3,470.18	
7A 18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000	Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00
7B 18.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per direction of E/I.			LS		Rs.3,000.00
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.					
(iii)	50mm dia Pipe from distribution main	3.50	M	P/M	Rs.458.40	Rs.1,604.40
8B	Providing and fixing G.I. fittings					
	80mm x 80mm x 50mm dia Tee	1	No.	Each	Rs.225.00	Rs.225.00
	50mm dia Bend	1	No.	Each	Rs.175.00	Rs.175.00
8C 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.					
	1 0.45 0.45	0.203	M ²	P/M ²	Rs.277.50	Rs.56.19
8D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.					
4.4.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)					
	0.15m x 0.40m x .40m =	0.024				
	3.0m x 0.25m x .25m =	0.188	M ³			
		0.212	M ³	P/M ³	Rs.4,151.40	Rs.878.02
8E	Carriage 10% of item 8C & D					Rs.93.42
9	Providing and fixing GI extension nipple for water tank pipe, fittings of approved quality and colour.					
	50mm dia	1	Nos.	each	Rs.300.00	Rs.300.00
	65mm dia	2	No.	each	Rs.350.00	Rs.700.00
	80mm dia	1	No.	each	Rs.550.00	Rs.550.00
	TOTAL					Rs.5,44,065.46

Sub Est. No. 3b

For HH-125

WATER SUPPLY DISTRIBUTION SYSTEM

S.N.	Particulars	Quantity	Unit	Rate	Amount	
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.					
	90mm dia Pipe	0.00	0.30	1.10 =	0.00	
	75mm dia Pipe	200.00	0.30	1.10 =	66.00	
	63mm dia Pipe	200.00	0.30	1.10 =	66.00	
	50mm dia Pipe	400.00	0.30	1.10 =	132.00	
	40mm dia Pipe	550.00	0.30	1.10 =	181.50	
		445.50	M ³			
	Add 5% extra for fittings =	22.28	M ³			
		467.78	M ³	P/M ³	Rs.319.60	Rs.1,49,500.89
1B	Provision for PCC road cutting and its restoration	15.16	M ³	P/M ³	Rs.4,958.60	Rs.75,152.10
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	458.42	M ³	P/M ³	Rs.103.30	Rs.47,354.73
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68	Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13	Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40	Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.					
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)					
	90mm dia Pipe	0.00	M	P/M	Rs.340.84	Rs.0.00
	75mm dia Pipe	200.00	M	P/M	Rs.239.81	Rs.47,962.00
	63mm dia Pipe	200.00	M	P/M	Rs.168.77	Rs.33,754.00
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)					
	50mm dia Pipe	400.00	M	P/M	Rs.89.99	Rs.35,996.00
	40mm dia Pipe	550.00	M	P/M	Rs.59.78	Rs.32,879.00
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.					
	5% of the cost of HDPE Pipe					Rs.7,529.55
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).					
	80mm dia Pipe	2 Nos.	Each	Rs.2,062.70	Rs.4,125.40	
	65mm dia Pipe	3 Nos.	Each	Rs.1,383.70	Rs.4,151.10	
	50mm dia Pipe	2 Nos.	Each	Rs.926.20	Rs.1,852.40	

S.N.	Particulars	Quantity	Unit	Rate	Amount	
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00	
5 18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20	
	Work for additional depth					
	Brick work (1:4) in foundation					
	2 1.10 0.25 0.35 0.193					
	2 0.60 0.25 0.35 0.105					
		0.298	1.190 M ³	P/M ³	Rs.5,037.20	Rs.5,994.27
	Plaster (1:3)					
	8 1.10 0.35 3.08	12.32	M ²	P/M ²	Rs.153.60	Rs.1,892.35
6	Carriage 10% of item 5				Rs.3,470.18	
7A 18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000	Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00
7B 18.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per dirction of E/I.			LS		Rs.3,000.00
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.					
(iii)	50mm dia Pipe from distribution main	3.50	M	P/M	Rs.458.40	Rs.1,604.40
8B	Providing and fixing G.I. fittings					
	80mm x 80mm x 50mm dia Tee	1	No.	Each	Rs.225.00	Rs.225.00
	50mm dia Bend	1	No.	Each	Rs.175.00	Rs.175.00
8C 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.	0.203	M ²	P/M ²	Rs.277.50	Rs.56.19
	1 0.45 0.45					
8D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.					
4.4.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)					
	0.15m x 0.40m x .40m =	0.024				
	3.0m x 0.25m x .25m =	0.188	M ³			
		0.212	M ³	P/M ³	Rs.4,151.40	Rs.878.02
8E	Carriage 10% of item 8C & D					Rs.93.42
9	Providing and fixing GI extension nipple for water tank pipe, fittings of approved quality and colour.					
	50mm dia	1	Nos.	each	Rs.300.00	Rs.300.00
	65mm dia	2	No.	each	Rs.350.00	Rs.700.00
	80mm dia	1	No.	each	Rs.550.00	Rs.550.00
					TOTAL	Rs.5,83,703.80

Sub Est. No. 3c

For HH-150

WATER SUPPLY DISTRIBUTION SYSTEM

S.N.	Particulars	Quantity	Unit	Rate	Amount
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.				
	90mm dia Pipe	0.00	0.30	1.10 =	0.00
	75mm dia Pipe	200.00	0.30	1.10 =	66.00
	63mm dia Pipe	250.00	0.30	1.10 =	82.50
	50mm dia Pipe	450.00	0.30	1.10 =	148.50
	40mm dia Pipe	600.00	0.30	1.10 =	198.00
					495.00 M ³
	Add 5% extra for fittings =				24.75 M ³
					519.75 M ³
			P/M ³	Rs.319.60	Rs.1,66,112.10
1B	Provision for PCC road cutting and its restoration	16.84	M ³	P/M ³	Rs.4,958.60 Rs.83,502.33
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	509.36	M ³	P/M ³	Rs.103.30 Rs.52,616.37
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68 Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13 Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40 Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.				
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)				
	90mm dia Pipe	0.00	M	P/M	Rs.340.84 Rs.0.00
	75mm dia Pipe	200.00	M	P/M	Rs.239.81 Rs.47,962.00
	63mm dia Pipe	250.00	M	P/M	Rs.168.77 Rs.42,192.50
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)				
	50mm dia Pipe	450.00	M	P/M	Rs.89.99 Rs.40,495.50
	40mm dia Pipe	600.00	M	P/M	Rs.59.78 Rs.35,868.00
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.				
	5% of the cost of HDPE Pipe				Rs.8,325.90
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	80mm dia Pipe	2 Nos.	Each	Rs.2,062.70	Rs.4,125.40
	65mm dia Pipe	3 Nos.	Each	Rs.1,383.70	Rs.4,151.10
	50mm dia Pipe	2 Nos.	Each	Rs.926.20	Rs.1,852.40

S.N.	Particulars	Quantity	Unit	Rate	Amount				
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00				
5 18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20				
	Work for additional depth								
	Brick work (1:4) in foundation								
		2	1.10	0.25	0.35	0.193			
		2	0.60	0.25	0.35	0.105			
				0.298	1.190 M ³	P/M ³	Rs.5,037.20	Rs.5,994.27	
	Plaster (1:3)								
		8	1.10	0.35	3.08	12.32 M ²	P/M ²	Rs.153.60	Rs.1,892.35
6	Carriage 10% of item 5								Rs.3,470.18
7A 18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000	Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00			
7B 18.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per dirction of E/I.				LS	Rs.3,000.00			
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.								
(iii)	50mm dia Pipe from distribution main	3.50	M	P/M	Rs.458.40	Rs.1,604.40			
8B	Providing and fixing G.I. fittings								
	80mm x 80mm x 50mm dia Tee	1	No.	Each	Rs.225.00	Rs.225.00			
	50mm dia Bend	1	No.	Each	Rs.175.00	Rs.175.00			
8C 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.	1	0.45	0.45	0.203 M ²	P/M ²	Rs.277.50	Rs.56.19	
8D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.								
4.4.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)								
	0.15m x 0.40m x .40m =	0.024							
	3.0m x 0.25m x .25m =	0.188	M ³						
		0.212	M ³	P/M ³	Rs.4,151.40	Rs.878.02			
8E	Carriage 10% of item 8C & D					Rs.93.42			
9	Providing and fixing GI extension nipple for water tank pipe, fittings of approved quality and colour.								
	50mm dia	1	Nos.	each	Rs.300.00	Rs.300.00			
	65mm dia	2	No.	each	Rs.350.00	Rs.700.00			
	80mm dia	1	No.	each	Rs.550.00	Rs.550.00			
	TOTAL					Rs.6,30,650.32			

Sub Est. No. 3d



For HH-175

WATER SUPPLY DISTRIBUTION SYSTEM

S.N.	Particulars	Quantity	Unit	Rate	Amount	
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.					
	90mm dia Pipe	100.00	0.30	1.10 =	33.00	
	75mm dia Pipe	250.00	0.30	1.10 =	82.50	
	63mm dia Pipe	250.00	0.30	1.10 =	82.50	
	50mm dia Pipe	400.00	0.30	1.10 =	132.00	
	40mm dia Pipe	600.00	0.30	1.10 =	198.00	
				528.00 M ³		
	Add 5% extra for fittings =			26.40 M ³		
				554.40 M ³		
			P/M ³	Rs.319.60	Rs.1,77,186.24	
1B	Provision for PCC road cutting and its restoration	17.96	M ³	P/M ³	Rs.4,958.60	Rs.89,069.15
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	543.31	M ³	P/M ³	Rs.103.30	Rs.56,124.13
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68	Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13	Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40	Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.					
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)					
	90mm dia Pipe	100.00	M	P/M	Rs.340.84	Rs.34,084.00
	75mm dia Pipe	250.00	M	P/M	Rs.239.81	Rs.59,952.50
	63mm dia Pipe	250.00	M	P/M	Rs.168.77	Rs.42,192.50
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)					
	50mm dia Pipe	400.00	M	P/M	Rs.89.99	Rs.35,996.00
	40mm dia Pipe	600.00	M	P/M	Rs.59.78	Rs.35,868.00
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.					

S.No.	Particulars	Quantity	Unit	Rate	Amount
	5% of the cost of HDPE Pipe				Rs.10,404.65
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
	80mm dia Pipe	2 Nos.	Each	Rs.2,062.70	Rs.4,125.40
	65mm dia Pipe	3 Nos.	Each	Rs.1,383.70	Rs.4,151.10
	50mm dia Pipe	2 Nos.	Each	Rs.926.20	Rs.1,852.40
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00
5 18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20
	Work for additional depth				
	Brick work (1:4) in foundation				
		2	1.10	0.25 0.35 0.193	
		2	0.60	0.25 0.35 0.105	
				0.298	1.190 M ³
					P/M ³ Rs.5,037.20
	Plaster (1:3)				Rs.5,994.27
		8	1.10	0.35 3.08	12.32 M ²
					P/M ² Rs.153.60
					Rs.1,892.35
6	Carriage 10% of item 5				Rs.3,470.18
7A 18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000 Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00
7B 18.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per dirction of E/I.			LS	Rs.3,000.00
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.				
(iii)	50mm dia Pipe from distribution main	3.50 M	P/M	Rs.458.40	Rs.1,604.40
8B	Providing and fixing G.I. fittings				
	80mm x 80mm x 50mm dia Tee	1 No.	Each	Rs.225.00	Rs.225.00
	50mm dia Bend	1 No.	Each	Rs.175.00	Rs.175.00
8C 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of				

S. N.	Particulars	Quantity	Unit	Rate	Amount
	1 0.45 0.45	0.203 M ²	P/M ²	Rs.277.50	Rs.56.19
8D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.1.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)				
	0.15m x 0.40m x .40m =	0.024			
	3.0m x 0.25m x .25m =	0.188 M ³			
		0.212 M ³	P/M ³	Rs.4,151.40	Rs.878.02
8E	Carriage 10% of item 8C & D				Rs.93.42
9	Providing and fixing GI extension nipple for water tank pipe, fittings of approved quality and colour.				
	50mm dia	1 Nos.	each	Rs.300.00	Rs.300.00
	65mm dia	2 No.	each	Rs.350.00	Rs.700.00
	80mm dia	1 No.	each	Rs.550.00	Rs.550.00
				TOTAL	Rs.6,94,452.79

Sub Est. No. 3e

For HH-200

WATER SUPPLY DISTRIBUTION SYSTEM

S.N.	Particulars	Quantity	Unit	Rate	Amount
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.				
	90mm dia Pipe	100.00	0.30	1.10 =	33.00
	75mm dia Pipe	300.00	0.30	1.10 =	99.00
	63mm dia Pipe	400.00	0.30	1.10 =	132.00
	50mm dia Pipe	400.00	0.30	1.10 =	132.00
	40mm dia Pipe	600.00	0.30	1.10 =	198.00
				594.00 M ³	
	Add 5% extra for fittings =			29.70 M ³	
				623.70 M ³	
			P/M ³	Rs.319.60	Rs.1,99,334.52
1B	Provision for PCC road cutting and its restoration	20.21	M ³	P/M ³	Rs.4,958.60 Rs.1,00,202.79
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	611.23	M ³	P/M ³	Rs.103.30 Rs.63,139.65
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68 Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13 Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40 Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.				
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)				
	90mm dia Pipe	100.00	M	P/M	Rs.340.84 Rs.34,084.00
	75mm dia Pipe	300.00	M	P/M	Rs.239.81 Rs.71,943.00
	63mm dia Pipe	400.00	M	P/M	Rs.168.77 Rs.67,508.00
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)				
	50mm dia Pipe	400.00	M	P/M	Rs.89.99 Rs.35,996.00
	40mm dia Pipe	600.00	M	P/M	Rs.59.78 Rs.35,868.00
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes				

S N.	Particulars	Quantity	Unit	Rate	Amount	
	5% of the cost of HDPE Pipe				Rs.12,269.95	
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).					
	80mm dia Pipe	2 Nos.	Each	Rs.2,062.70	Rs.4,125.40	
	65mm dia Pipe	3 Nos.	Each	Rs.1,383.70	Rs.4,151.10	
	50mm dia Pipe	2 Nos.	Each	Rs.926.20	Rs.1,852.40	
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00	
5 11.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20	
	Work for additional depth					
	Brick work (1:4) in foundation					
		2	1.10	0.25	0.35	0.193
		2	0.60	0.25	0.35	0.105
					0.298	
		1.190	M ³	P/M ³	Rs.5,037.20	Rs.5,994.27
	Plaster (1:3)					
		8	1.10	0.35	3.08	12.32
			M ²	P/M ²	Rs.153.60	Rs.1,892.35
6	Carriage 10% of item 5				Rs.3,470.18	
7A 8.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000	Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00
7B 8.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per dirction of E/I.			LS		Rs.3,000.00
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.					
(iii)	50mm dia Pipe from distribution main	3.50	M	P/M	Rs.458.40	Rs.1,604.40
8B	Providing and fixing G.I. fittings					
	80mm x 80mm x 50mm dia Tee	1	No.	Each	Rs.225.00	Rs.225.00
	50mm dia Bend	1	No.	Each	Rs.175.00	Rs.175.00
8C	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes &					

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S.N.	Particulars	Quantity	Unit	Rate	Amount
	1 0.45 0.45	0.203 M ²	P/M ²	Rs.277.50	Rs.56.19
3D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)				
	0.15m x 0.40m x .40m =	0.024			
	3.0m x 0.25m x .25m =	0.188 M ³			
		0.212 M ³	P/M ³	Rs.4,151.40	Rs.878.02
8E	Carriage 10% of item 8C & D				Rs.93.42
9	Providing and fixing GI extension nipple for water tank pipe, fittings of approved quality and colour.				
	50mm dia	1 Nos.	each	Rs.300.00	Rs.300.00
	65mm dia	2 No.	each	Rs.350.00	Rs.700.00
	80mm dia	1 No.	each	Rs.550.00	Rs.550.00
				TOTAL	Rs.7,73,921.53

Sub Est. No. 3f

For HH-225

WATER SUPPLY DISTRIBUTION SYSTEM

S.N.	Particulars	Quantity	Unit	Rate	Amount
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.				
	90mm dia Pipe	100.00	0.30	1.10 =	33.00
	75mm dia Pipe	400.00	0.30	1.10 =	132.00
	63mm dia Pipe	400.00	0.30	1.10 =	132.00
	50mm dia Pipe	500.00	0.30	1.10 =	165.00
	40mm dia Pipe	600.00	0.30	1.10 =	198.00
					660.00 M ³
	Add 5% extra for fittings =				33.00 M ³
					693.00 M ³
			P/M ³	Rs.319.60	Rs.2,21,482.80
1B	Provision for PCC road cutting and its restoration	22.45	M ³	P/M ³	Rs.4,958.60
					Rs.1,11,336.44
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	679.14	M ³	P/M ³	Rs.103.30
					Rs.70,155.16
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68
					Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13
					Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40
					Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.				
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)				
	90mm dia Pipe	100.00	M	P/M	Rs.340.84
					Rs.34,084.00
	75mm dia Pipe	400.00	M	P/M	Rs.239.81
					Rs.95,924.00
	63mm dia Pipe	400.00	M	P/M	Rs.168.77
					Rs.67,508.00
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)				
	50mm dia Pipe	500.00	M	P/M	Rs.89.99
					Rs.44,995.00
	40mm dia Pipe	600.00	M	P/M	Rs.59.78
					Rs.35,868.00
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE				

S.N.	Particulars	Quantity	Unit	Rate	Amount	
	5% of the cost of HDPE Pipe				Rs.13,918.95	
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).					
	80mm dia Pipe	2 Nos.	Each	Rs.2,062.70	Rs.4,125.40	
	65mm dia Pipe	3 Nos.	Each	Rs.1,383.70	Rs.4,151.10	
	50mm dia Pipe	2 Nos.	Each	Rs.926.20	Rs.1,852.40	
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00	
5 18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20	
	Work for additional depth					
	Brick work (1:4) in foundation					
		2	1.10	0.25	0.35	0.193
		2	0.60	0.25	0.35	0.105
				0.298	1.190 M ³	P/M ³
					Rs.5,037.20	Rs.5,994.27
	Plaster (1:3)					
		8	1.10	0.35	3.08	12.32 M ²
					P/M ²	Rs.153.60
						Rs.1,892.35
6	Carriage 10% of item 5					Rs.3,470.18
7A 18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000 Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00	
7B 18.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per direction of E/I.			LS	Rs.3,000.00	
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.					
(iii)	50mm dia Pipe from distribution main	3.50 M	P/M	Rs.458.40	Rs.1,604.40	
8B	Providing and fixing G.I. fittings					
	80mm x 80mm x 50mm dia Tee	1 No.	Each	Rs.225.00	Rs.225.00	
	50mm dia Bend	1 No.	Each	Rs.175.00	Rs.175.00	
8C 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of					

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S.N.	Particulars	Quantity	Unit	Rate	Amount
	1 0.45 0.45	0.203 M ²	P/M ²	Rs.277.50	Rs.56.19
8D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)				
	0.15m x 0.40m x .40m =	0.024			
	3.0m x 0.25m x .25m =	0.188 M ³			
		0.212 M ³	P/M ³	Rs.4,151.40	Rs.878.02
8E	Carriage 10% of item 8C & D				Rs.93.42
9	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.				
	50mm dia	1 Nos.	each	Rs.300.00	Rs.300.00
	65mm dia	2 No.	each	Rs.350.00	Rs.700.00
	80mm dia	1 No.	each	Rs.550.00	Rs.550.00
				TOTAL	Rs.8,48,847.97

N Jr.

Sub Est. No. 3g

For HH-250

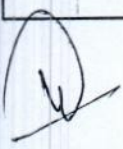

WATER SUPPLY DISTRIBUTION SYSTEM

S.N.	Particulars	Quantity	Unit	Rate	Amount
1A	Earthwork in excavation over areas (exceeding 30 cm in depth 1.5 in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m, disposal earth to be levelled and neatly dressed.				
	90mm dia Pipe	100.00	0.30	1.10 =	33.00
	75mm dia Pipe	400.00	0.30	1.10 =	132.00
	63mm dia Pipe	500.00	0.30	1.10 =	165.00
	50mm dia Pipe	600.00	0.30	1.10 =	198.00
	40mm dia Pipe	600.00	0.30	1.10 =	198.00
	<u>2200.00</u>				726.00 M ³
	Add 5% extra for fittings =				36.30 M ³
					762.30 M ³
			P/M ³	Rs.319.60	Rs.2,43,631.08
1B	Provision for PCC road cutting and its restoration	24.70	M ³	P/M ³	Rs.4,958.60
					Rs.1,22,470.08
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	747.05	M ³	P/M ³	Rs.103.30
					Rs.77,170.68
3A	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
(i)	80 mm dia nominal bore from PVC tank to Distribution main	12.00	M	P/M	Rs.782.68
					Rs.9,392.16
(ii)	65 mm dia nominal bore used for washout and overflow from PVC Tank	4.00	M	P/M	Rs.606.13
					Rs.2,424.52
(iii)	50mm dia Pipe from T/well to PVC Tank	15.00	M	P/M	Rs.458.40
					Rs.6,876.00
3B	Providing and laying High Density Polyethylene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm ² and 10 Kg/cm ² suitable for water supply which is available in all standard, like ISI-4984/1995 and various grades like PE-80, PE-100 including required specials. Rates are inclusive of , all taxes and duties (Exise duty @12.50% & CST @ 2% against Form 'C'), labour cess, contractor profit and overhead charges all complete as per direction of Engineer-in-charge.				
(i)	HDPE pipe of materials grade PE100- PN10 (dia in mm)				
	90mm dia Pipe	100.00	M	P/M	Rs.340.84
					Rs.34,084.00
	75mm dia Pipe	400.00	M	P/M	Rs.239.81
					Rs.95,924.00
	63mm dia Pipe	500.00	M	P/M	Rs.168.77
					Rs.84,385.00
(ii)	HDPE pipe of materials grade PE100- PN8 (dia in mm)				
	50mm dia Pipe	600.00	M	P/M	Rs.89.99
					Rs.53,994.00
	40mm dia Pipe	600.00	M	P/M	Rs.59.78
					Rs.35,868.00

S.N.	Particulars	Quantity	Unit	Rate	Amount	
3C	Providing all materials labours tools, fittings, specials and tackles for fitting, jointing and connecting HDPE pipes.					
	5% of the cost of HDPE Pipe				Rs.15,212.75	
4	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).					
	80mm dia Pipe	2 Nos.	Each	Rs.2,062.70	Rs.4,125.40	
	65mm dia Pipe	3 Nos.	Each	Rs.1,383.70	Rs.4,151.10	
	50mm dia Pipe	2 Nos.	Each	Rs.926.20	Rs.1,852.40	
	40mm dia Pipe	0 Nos.	Each	Rs.630.30	Rs.0.00	
5 18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard specifications & direction of E/I.	4 Nos.	Each	Rs.6,703.80	Rs.26,815.20	
	Work for additional depth					
	Brick work (1:4) in foundation					
		2	1.10	0.25	0.35	0.193
		2	0.60	0.25	0.35	0.105
				0.298	1.190 M ³	P/M ³
					Rs.5,037.20	Rs.5,994.27
	Plaster (1:3)					
		8	1.10	0.35	3.08	12.32 M ²
						P/M ²
					Rs.153.60	Rs.1,892.35
6	Carriage 10% of item 5					Rs.3,470.18
7A 18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10000 Ltrs.	P/Ltr.	Rs.7.90	Rs.79,000.00	
7B 18.48	Providing and fixing MS clamp consisting of 32mm x 5mm thick two no. rings spaced suitably distance apart around the tank and six nos. L type flats suitably connected with the rings and the other leg suitably connected with the top of the steel structure as per dirction of E/I.			LS	Rs.3,000.00	
8A	Supplying all materials labours & fixing 50 mm dia ISI marked G.I. Pipe (Medium class) as per IS 1239 (Part 1) with latest amendment for using as filling station etc. all as per S/D of E/I.					
(iii)	50mm dia Pipe from distribution main	3.50 M	P/M	Rs.458.40	Rs.1,604.40	
8B	Providing and fixing G.I. fittings					
	80mm x 80mm x 50mm dia Tee	1 No.	Each	Rs.225.00	Rs.225.00	
	50mm dia Bend	1 No.	Each	Rs.175.00	Rs.175.00	

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S.N.	Particulars	Quantity	Unit	Rate	Amount
8C 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.				
	1 0.45 0.45	0.203 M ²	P/M ²	Rs.277.50	Rs.56.19
8D	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1Cement :2coarse sand :4grade stone aggregate 20 mm nominal size)				
	0.15m x 0.40m x .40m =	0.024			
	3.0m x 0.25m x .25m =	0.188 M ³			
		0.212 M ³	P/M ³	Rs.4,151.40	Rs.878.02
8E	Carriage 10% of item 8C & D				Rs.93.42
9	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.				
	50mm dia	1 Nos.	each	Rs.300.00	Rs.300.00
	65mm dia	2 No.	each	Rs.350.00	Rs.700.00
	80mm dia	1 No.	each	Rs.550.00	Rs.550.00
				TOTAL	Rs.9,16,315.21

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Sub Est. No. 4a

For HH-100

Model estimate for supply, installation & commissioning of single phase 2 H.P submersible motor pump set with all accessories including extension of L.T. line from nearest source up-to pumping station.

Sl. No. 1	Particulars 2	Quantity 3	Unit 4	Rate 5	Amount 6
[A]	Supply Installation, commissioning and testing of single phase 2 H.P. submersible pump set having discharging capacity 2.5 lps at a total head of 35 meter(approx) of KSB/ Kirloskar or equivalent make with all accessories & fittings etc including loading unloading and transportation of the pump set to the work site with all required labour, materials, tools and tackles installation, testing & commissioning as per standards specifications and direction of E/I. (i) 40 mm dia x 3 mtrs long medium class G.I column pipe both end threaded and one end socketed- 6(six)nos (ii) 1x3x1.5 mm ² flat copper conductor submersible cable -40 (forty) mtrs. (iii) 40 mm dia union socket- 1(one) no. (iv) 50 mm dia x 250 mm long G.I. nipple- 1 (one) no. (v) 40 mm dia G.I Elbow—1(One) no. (vi) 40 mm dia M.S. clamps—2(Two) Pairs. (vii) 40 mmx 250 mm long G.I nipple- 1(One) no. (viii) Tube well cap for 125 mm dia T/Well - 1(one) no. (ix) 40 mm dia x 50 mm dia reducer socket -1(one) no.	1 (one) job	p/job	Rs.30,500.00	Rs.30,500.00
[B]	Supply Installation, commissioning and testing of floor mounted outdoor type L.T feeder pillar single phase starter controll panel operated on 220 V, 3 phase , 50 c/s for 2 HP Submersible pump set made of MS sheet (minimum 2 mm thick) duly spray power coated painting with following accessories made of M.S sheet (minimum 2mm thick) duly spray powder coated painting with following accessories (i) 95-272 V range single phase 5 KVA automatic voltage stabilizer make- Sen & Pandit/ Vertex/ISI marked If any. 1 No. (ii) Suitable single phase starter control panel for above motor of BCH /L&Tmake - 1(one) no.	1 (one) job	p/job	Rs.28,500.00	Rs.28,500.00
[C]	Supplying & fitting 2.5 mm ² copper service cable from power point from nearest source up-to pumping station..	20 mtrs	P/Mt	Rs.130.00	Rs.2,600.00
[D]	Providing all materials and labour required for doing earthing station with G.I earth pipe of 40 mm dia x 4.5 mtrs 20fts. long G.I pipe including accessories excavation of earth , providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with salt, charcoal,etc.as per IE & IS specification.	1 job	p/job	Rs.2,803.00	Rs.2,803.00
Total Rs.					Rs.64,403.00

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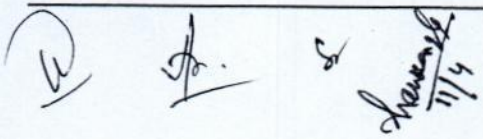
60

Sub Est. No. 4b

For HH-125, 150, 175, 200, 225 & 250

Model estimate for supply, installation & commissioning of single phase 3 H.P submersible motor pump set with all accessories including extension of L.T. line from nearest source up-to pumping station.

Sl. No.	Particulars	Quantity	Unit	Rate	Amount
1	2	3	4	5	6
1	Supply Installation, commissioning and testing of single phase 3 H.P. submersible pump set having discharging capacity 3.35 lps at a total head of 35 meter(approx) of KSB/ Kirloskar or equivalent make with all accessories & fittings etc including loading unloading and transportation of the pump set to the work site with all required labour, materials, tools and tackles installation, testing & commissioning as per standards specifications and direction of E/I. (i) 50 mm dia x 3 mtrs long medium class G.I column pipe both end thread and one end socketed- 6(six)nos (ii) 1x3x2.5 mm ² flat copper conductor submersible cable -40 (forty) mtrs. (iii) 50 mm dia union socket- 1(one) no. (iv) 65 mm dia x 250 mm long G.I. nipple- 1 (one) no. (v) 50 mm dia G.I Elbow—1(One) no. (vi) 50 mm dia M.S. clamps—2(Two) Pairs. (vii) 50 mmx 250 mm long G.I nipple- 1(One) no. (viii) Tube well cap for T/Well – 1(one) no. (ix) 50 mm dia x 65 mm dia reducer socket –1(one) no.	(one) 1 job	p/job	Rs.42,700.00	Rs.42,700.00
2	Supply Installation, commissioning and testing of floor mounted outdoor type L.T feeder pillar single phase starter controll pannel operated on 220 V, 3 phase , 50 c/s for 3 HP Submersible pump set made of MS sheet (minimum 2 mm thick) duly spray power coated painting with following accessories made of M.S sheet (minimum 2mm thick) duly spray powder coated painting with following accessories (i) 90-220 V range single phase 7.5 KVA automatic voltage stabilizer make- Sen & Pandit/ Vertex/ISI marked If any. 1 No. (ii) Suitable single phase starter control panel for above motor of BCH /L&Tmake – 1(one) no.	(one) 1 job	p/job	Rs.45,500.00	Rs.45,500.00
3	Supplying & fitting 2.5 mm ² copper service cable from power point from nearest source up-to pumping	20 mtrs	P/Mt	Rs.130.00	Rs.2,600.00
4	Providing all materials and labour required for doing earthing station with G.I earth pipe of 40 mm dia x 4.5 mtrs 20fts. long G.I pipe including accessories excavation of earth , providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with salt, charcoal,etc.as per IE & IS specification.	1 job	p/job	Rs.2,803.00	Rs.2,803.00
Total Rs.					Rs.93,603.00



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Sub Est. No. 5a

For HH-100

Estimate for the work - House service connection

SUB-ESTIMATE					
S.No.	Description	Qty	Unit	Rate	Amount
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.				
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall				
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)				
	Providing SWR pipe as support with concrete work to the standing GI Pipe				
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
2.8.1	6.00 0.30 0.60 1.08	1.08	CuM	Rs.319.60	Rs.345.17
3 2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead	1.06	CuM	Rs.103.30	Rs.109.33
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:				
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00
5	Providing and fixing brass bib cock of approved quality :				
18.15.1	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90
	Total				Rs.2,122.86
	Say				Rs.2,123.00

Sub Est. No. 5b

For HH-125

62

Estimate for the work - House service connection

SUB-ESTIMATE

S.No.	Description	Qty	Unit	Rate	Amount
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.				
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall				
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)				
	Providing SWR pipe as support with concrete work to the standing GI Pipe				
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
2.8.1	6.00 0.30 0.60 1.08	1.08	CuM	Rs.319.60	Rs.345.17
3 2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead	1.06	CuM	Rs.103.30	Rs.109.33
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:				
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00
5	Providing and fixing brass bib cock of approved quality :				
18.15.1	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90
	Total				Rs.2,122.86
	Say				Rs.2,123.00
	Total Nos. of House Holds=	125	Nos. @	Rs.2,123.00	Rs.2,65,375.00

Sub Est. No. 5c

For HH-150

63

Estimate for the work - House service connection

SUB-ESTIMATE

S.No.	Description	Qty	Unit	Rate	Amount
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.				
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall				
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)				
	Providing SWR pipe as support with concrete work to the standing GI Pipe				
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
2.8.1	6.00 0.30 0.60 1.08	1.08	CuM	Rs.319.60	Rs.345.17
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead				
2.26		1.06	CuM	Rs.103.30	Rs.109.33
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:				
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00
5	Providing and fixing brass bib cock of approved quality :				
18.54.3	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90
	Total				Rs.2,122.86
	Say				Rs.2,123.00
	Total Nos. of House Holder	150	Nos	Rs.2,123.00	Rs.318,450.00

Sub Est. No. 5d

For HH-175

Estimate for the work - House service connection					
SUB-ESTIMATE					
S.No.	Description	Qty	Unit	Rate	Amount
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.				
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall				
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)				
	Providing SWR pipe as support with concrete work to the standing GI Pipe				
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
2.8.1	6.00 0.30 0.60 1.08	1.08	CuM	Rs.319.60	Rs.345.17
3 2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead	1.06	CuM	Rs.103.30	Rs.109.33
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:				
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00
5	Providing and fixing brass bib cock of approved quality :				
18.15.1	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90
	Total				Rs.2,122.86
	Say				Rs.2,123.00

Sub Est. No. 5e

For HH-200

Estimate for the work - House service connection						
SUB-ESTIMATE						
S.No.	Description	Qty	Unit	Rate	Amount	
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.					
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82	
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall					
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58	
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.					
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)					
	Providing SWR pipe as support with concrete work to the standing GI Pipe					
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36	
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30	
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil					
2.8.1	6.00 0.30 0.60 1.08	1.08	CuM	Rs.319.60	Rs.345.17	
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead					
2.26		1.06	CuM	Rs.103.30	Rs.109.33	
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:					
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40	
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00	
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00	
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00	
5	Providing and fixing brass bib cock of approved quality :					
18.15.1	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90	
	Total				Rs.2,122.86	
	Say				Rs.2,123.00	
	Total Nos. of House Holds=	200	Nos.	@	Rs.2,123.00	Rs.4,24,600.00

For HH-225

Estimate for the work - House service connection

SUB-ESTIMATE

S.No.	Description	Qty	Unit	Rate	Amount
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.				
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall				
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.				
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)				
	Providing SWR pipe as support with concrete work to the standing GI Pipe				
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil				
2.8.1	6.00 0.30 0.60 1.08	1.08	CuM	Rs.319.60	Rs.345.17
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead				
2.26		1.06	CuM	Rs.103.30	Rs.109.33
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:				
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00
5	Providing and fixing brass bib cock of approved quality :				
18.15.1	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90
	Total				Rs.2,122.86
	Say				Rs.2,123.00
	Total Nos. of House Holds=	225	Nos.	@	Rs.2,123.00
					Rs.4,77,675.00

For HH-250

Estimate for the work - House service connection								
SUB-ESTIMATE								
S.No.	Description	Qty	Unit	Rate	Amount			
1A	Providing and fixing MDPE (PE 80 GradeCompound) pipes PN-12.5 (12.5kg/Sqcm) as per ISO 4427 and specification for waterapplication rates are inclusive of , taxes and duties (Exise duty @12.50% &CST @2% against Form 'C'), labour cess, contractor profit and overhead charges all complete asper direction of Engineer-in-charge.complete.							
	MDPE Pipe 20mm dia nominal bore	6.00	PM	Rs.19.97	Rs.119.82			
1B	Providing and fixing ISI marked G.I. Pipes (Medium class) as per IS 1239 (Part 1) with latest amendment complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall							
18.10.1	15 mm dia nominal bore	1.1	PM	Rs.177.80	Rs.195.58			
1C	Providing and faying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centring, shuttering and finishing.							
4.4.1	1:2:4 (1 Cement :2 coarse sand :4 grade stone aggregate 20 mm nominal size)							
	Providing SWR pipe as support with concrete work to the standing GI Pipe							
	22/28 x 0.10m x .10m x 1.0M=	0.009	P/M ³	Rs.4,151.40	Rs.37.36			
12.78.2	Cost of SWR Pipe of 110mm dia=	1.0	PM	Rs.238.30	Rs.238.30			
2	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and amming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil							
2.8.1	6.00	0.30	0.60	1.08	1.08	CuM	Rs.319.60	Rs.345.17
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead							
2.26		1.06	CuM	Rs.103.30	Rs.109.33			
4	Providing and fixing brass ferrule with CI mouth cover incuding boring and tapping the main:							
18.20.1	15mm nominal bore	1	Each	Rs.271.40	Rs.271.40			
(a)	Providing and fixing P.P. Clamp service Saddle (Brass threaded)	1	Each	Rs.400.00	Rs.400.00			
(b)	Providing and fixing female Adopter for adjoining the ferrule to MDPE pipe	1	Each	Rs.75.00	Rs.75.00			
(c)	Providing and fixing female elbow Adopter for adjoining the MDPE pipe to GI Pipe	1	Each	Rs.50.00	Rs.50.00			
5	Providing and fixing brass bib cock of approved quality :							
18.15.1	15 mm nominal bore	1	Each	Rs.280.90	Rs.280.90			
	Total				Rs.2,122.86			
	Say				Rs.2,123.00			
	Total Nos. of House Holds=	250	Nos.	@	Rs.2,123.00	Rs.5,30,750.00		

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Sub Est. No. 6b

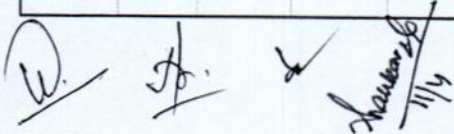
For HH-175, 200, 225, 250

8 M HIGH STEEL STRUCTURE STAGING FOR 10000 LITER PVC TANK

S.N.	Particulars	Quantity	Unit	Rate	Amount
1 10.3	Structural steel work riveted or bolted in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved primer all complete for 8M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached.	4240 Kg	P/Kg	Rs.70.60	Rs.2,99,344.00
2 2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including rassing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil				
	base of footing				
	4 1.95 1.95 1.35 =	20.534			
	Under Tie beam				
	2 2.30 0.25 0.275 =	0.316			
	2 1.30 0.25 0.275 =	0.179			
		21.029	M ³	P/M ³	Rs.319.60
					Rs.6,720.71
3- 2.28	Supplying and filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.				
	base of footing				
	4 1.95 1.95 0.10 =	1.521			
	Under Tie beam				
	2 3.95 0.25 0.10 =	0.198			
	2 2.95 0.25 0.10 =	0.148			
	Floor				
	1 4.00 3.00 0.10 =	1.200			
		3.066	M ³	P/M ³	Rs.238.60
					Rs.731.55
4- 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.				
	base of footing				
	4 1.95 1.95 =	15.210			
	Under Tie beam				
	2 3.95 0.25 =	1.975			
	2 2.95 0.25 =	1.475			
	Floor				
	1 4.00 3.00 =	12.000			
		30.660	M ²	P/M ²	Rs.277.50
					Rs.8,508.15
5 4.1.2	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level. 1:1.5:3(1 Cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)				
	base of footing				
	4 1.95 1.95 0.075 =	1.141			
	Floor				
	1 4.00 3.00 0.10 =	1.200			

S.N.	Particulars	Quantity	Unit	Rate	Amount	
6 5.1.2	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entring,shuttering,finishing and reinforcement-All work puto plinth level 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size) Tie beam					
	2 3.80 0.25 0.25 =	0.475				
	2 2.80 0.25 0.25 =	0.350				
	base of footing					
	4 1.80 1.80 0.30 =	3.888				
	4 0.60 0.60 0.15 =	0.216				
	Column below GL					
	4 0.45 0.45 0.65 =	0.527				
	Column above GL					
	4 0.45 0.45 0.15 =	0.122				
		5.577	5.577 M ³	P/M ³	Rs.4,902.30	Rs.27,340.13
7- 5.9.1	Centring and shuttering including strutting,propping etc. and removal of form for.					
	4 3.80 0.25 =	3.800				
	4 2.80 0.25 =	2.800				
	16 1.80 0.30 =	8.640				
	16 0.60 0.15 =	1.440				
	16 0.45 0.65 =	4.680				
	16 0.45 0.15 =	1.080				
		22.440	22.440 M ²	P/M ²	Rs.186.30	Rs.4,180.57
8- 5.2.2	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 8 mm to 16 mm tor steel Total Reinforcement.					
	=	446.24 Kg.	P/Kg.	Rs.75.20	Rs.33,557.25	
9 2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of oundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead (50% of E/W in excavation)					
		10.514 M ³	P/M ³	Rs.103.30	Rs.1,086.12	
10 13.26	Neat cement punning					
	1 4.00 3.00 =	12.000	12.000 M ²	P/M ²	Rs.38.60	Rs.463.20
11- 10.7.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using flats 30x6 mm for diagonal braces and central cross piece. Door					
	1 0.9 2.10 =	1.890				
	Window					
	1 1.2 0.90 =	1.080				
	Total =	2.970	2.970 M ³	P/M ³	Rs.2,721.10	Rs.8,081.67

S.N.	Particulars	Quantity	Unit	Rate	Amount
12- 12.1.4	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost of purlins, rafters and trusses. 0.8mm thick with zinc coating not less than 275 gm/mz Roof 1 4.50 3.50 = 15.750 Wall 1 16.00 3.00 = 48.000 63.750 Deduct for door & window 1 0.9 2.10 = 1.890 1 1.2 0.90 = 1.080 2.970 Net Qty = 60.780	60.780 M ²	M ²	Rs.949.87	Rs.57,733.10
13 10.19	Providing and fixing anchor bolt of 20 mm dia and 0.60 Mtr length (bolt, washer & double nut) embedded in R.C.C pedestal all complete as per direction of Engineer in charge. @4x4x1.60kg	25.60 Kg	P/kg	Rs.94.30	Rs.2,414.08
14- 13.82.1	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade: New steel work (two or more coats) Frame work 0.5 16.00 8.00 = 64.000 0.5 5.00 4.00 = 10.000 Roof sheet 2 4.50 3.50 = 31.500 Top sheet 2 5.00 4.00 = 40.000 GI sheet wall 2 16.00 3.00 = 96.000 241.500	241.50 M ²	M ²	Rs.74.50	Rs.17,991.75
15	Carriage of the following materials from quarry to work site including loading, unloading and staking at work site as per specification & direction of E/I. (a) Bricks (7 Km. Pucca & 1 Km. Kaccha lead) (b) Coarse sand (44 Km pucca & 1 km kaccha Carriage) (c) Stone Chips (195 Km pucca & 5 km unsurfaced Car) (d) Local Sand (3 Km. lead) (2 Pucca + 1 Kaccha)	990 Nos. 3.347 M ³ 6.695 M ³ 3.530 M ³	%0 nos. P/M ³ P/M ³ P/M ³	Rs.856.38 Rs.900.05 Rs.3,248.26 Rs.262.05	Rs.847.82 Rs.3,012.47 Rs.21,747.10 Rs.925.04
				TOTAL	Rs.5,05,642.44
				say	Rs.5,05,600.00



 W. J. S.

Sub Est. No. 6a

For HH-100, 125, 150

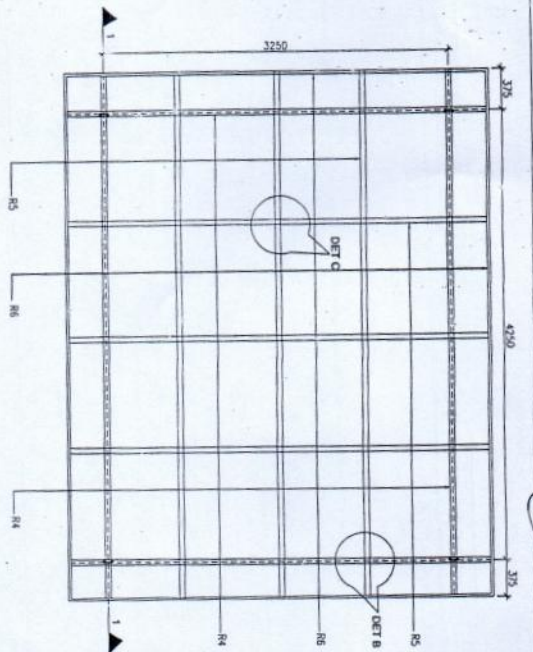
6 M HIGH STEEL STRUCTURE STAGING FOR 10000 LITER PVC TANK

S.N.	Particulars	Quantity	Unit	Rate	Amount	
1 10.3	Structural steel work riveted or bolted in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved primer all complete for 6M high staging with ladder of ISA65x65x6 and 16mm dia MS bar as trade @ 400mm c/c and GI enclosure to house electric switch panel & treatment unit (where required) of suitably designed MS section of angle, channel, etc. as per drawing attached.	3194 Kg	P/Kg	Rs.70.60	Rs.2,25,496.40	
2 2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including ressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil					
	base of footing					
	4 1.95 1.95 1.35 =	20.534				
	Under Tie beam					
	2 2.30 0.25 0.275 =	0.316				
	2 1.30 0.25 0.275 =	0.179				
		21.029	21.029 M ³	P/M ³	Rs.319.60	Rs.6,720.71
3- 2.28	Supplying and filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.					
	base of footing					
	4 1.95 1.95 0.10 =	1.521				
	Under Tie beam					
	2 3.95 0.25 0.10 =	0.198				
	2 2.95 0.25 0.10 =	0.148				
	Floor					
	1 4.00 3.00 0.10 =	1.200				
		3.066	3.066 M ³	P/M ³	Rs.238.60	Rs.731.55
4- 11.72	Providing designation of 100A Brick flat Soling joints filled with local sand including cost of watering, taxes & royalty all complete as per specification & direction of E/I.					
	base of footing					
	4 1.95 1.95 =	15.210				
	Under Tie beam					
	2 3.95 0.25 =	1.975				
	2 2.95 0.25 =	1.475				
	Floor					
	1 4.00 3.00 =	12.000				
		30.660	30.660 M ²	P/M ²	Rs.277.50	Rs.8,508.15
5 4.1.2	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level. 1:1.5:3(1 Cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)					
	base of footing					
	4 1.95 1.95 0.075 =	1.141				
	Floor					
	1 4.00 3.00 0.10 =	0.100				

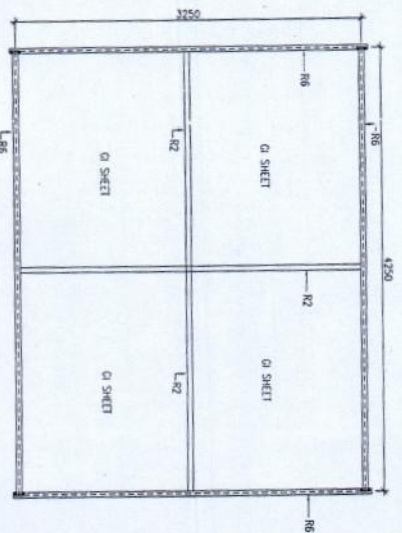
S.N.	Particulars	Quantity	Unit	Rate	Amount		
6	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entring, shuttering, finishing and reinforcement- All work upto plinth level	2.341	M ³	P/M ³	Rs.4,681.30	Rs.10,957.75	
5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)						
	Tie beam						
	2 3.80 0.25 0.25 =	0.475					
	2 2.80 0.25 0.25 =	0.350					
	base of footing						
	4 1.80 1.80 0.30 =	3.888					
	4 0.60 0.60 0.15 =	0.216					
	Column below GL						
	4 0.45 0.45 0.65 =	0.527					
	Column above GL						
	4 0.45 0.45 0.15 =	0.122					
		5.577	M ³	P/M ³	Rs.4,902.30	Rs.27,340.13	
7-	Centring and shuttering including						
5.9.1	strutting, propping etc. and removal of form for.						
	4 3.80 0.25 =	3.800					
	4 2.80 0.25 =	2.800					
	16 1.80 0.30 =	8.640					
	16 0.60 0.15 =	1.440					
	16 0.45 0.65 =	4.680					
	16 0.45 0.15 =	1.080					
		22.440	M ²	P/M ²	Rs.186.30	Rs.4,180.57	
8-	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.						
5.2.2	8 mm to 16 mm tor steel						
	Total Reinforcement.	=	446.24 Kg.	P/Kg.	Rs.75.20	Rs.33,557.25	
9	Filling available excavated earth (excluding rock) in trenches, plinth, sides of oundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead (50% of E/W in excavation)	10.514	M ³	P/M ³	Rs.103.30	Rs.1,086.12	
10	Neat cement punning						
13.26	1 4.00 3.00 =	12.000	M ²	P/M ²	Rs.38.60	Rs.463.20	
11-	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.						
10.7.1	Using flats 30x6 mm for diagonal braces and central cross piece.						
	Door						
	1 0.9 2.10 =	1.890					
	Window						
	1 1.2 0.90 =	1.080					
	Total	=	2.970	M ³	P/M ³	Rs.2,721.10	Rs.8,081.67

S.N.	Particulars	Quantity	Unit	Rate	Amount
12- 12.1.4	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost of purlins, rafters and trusses. 0.8mm thick with zinc coating not less than 275 gm/mz Roof 1 4.50 3.50 = 15.750 Wall 1 16.00 3.00 = 48.000 63.750 Deduct for door & window 1 0.9 2.10 = 1.890 1 1.2 0.90 = 1.080 2.970 Net Qty = 60.780	60.780 M ²	M ²	Rs.949.87	Rs.57,733.10
13 10.19	Providing and fixing anchor bolt of 20 mm dia and 0.60 Mtr length (bolt, washer & double nut) embedded in R.C.C pedestal all complete as per direction of Engineer in charge. @4x4x1.60kg	25.60 Kg	P/kg	Rs.94.30	Rs.2,414.08
14- 13.82.1	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade: New steel work (two or more coats) Frame work 0.5 16.00 8.00 = 64.000 0.5 5.00 4.00 = 10.000 Roof sheet 2 4.50 3.50 = 31.500 Top sheet 2 5.00 4.00 = 40.000 GI sheet wall 2 16.00 3.00 = 96.000 241.500	241.50 M ²	M ²	Rs.74.50	Rs.17,991.75
15	Carriage of the following materials from quarry to work site including loading, unloading and staking at work site as per specification & direction of E/I. (a) Bricks (7 Km. Pucca & 1 Km. Kaccha lead) 990 Nos. %0 nos. (b) Coarse sand (44 Km pucca & 1 km kaccha Carriage) 3.347 M ³ P/M ³ (c) Stone Chips (195 Km pucca & 5 km unsurfaced Car) 6.695 M ³ P/M ³ (d) Local Sand (3 Km. lead) (2 pucca + 1 kaccha) 3.530 M ³ P/M ³				
	TOTAL				Rs.4,31,794.84
	say				Rs.4,31,800.00

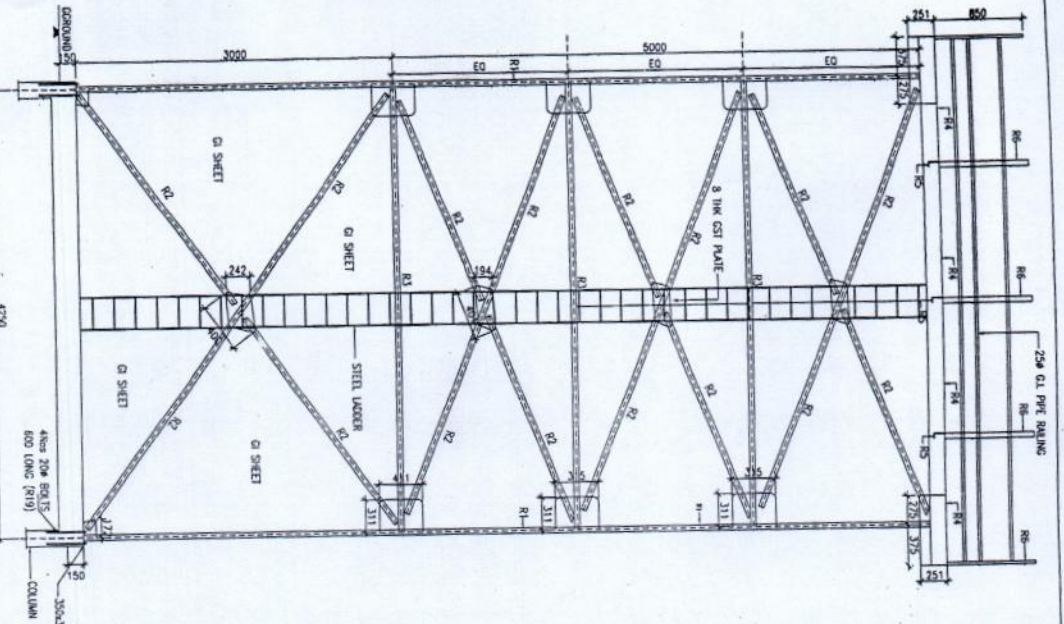
LEGEND	
MEMBERS MKD	SECTION
R1	ISM 2
R2	LS60x65
R3	L100x11
R4	ISM 1
R5	ISM 2
R6	LS60x65



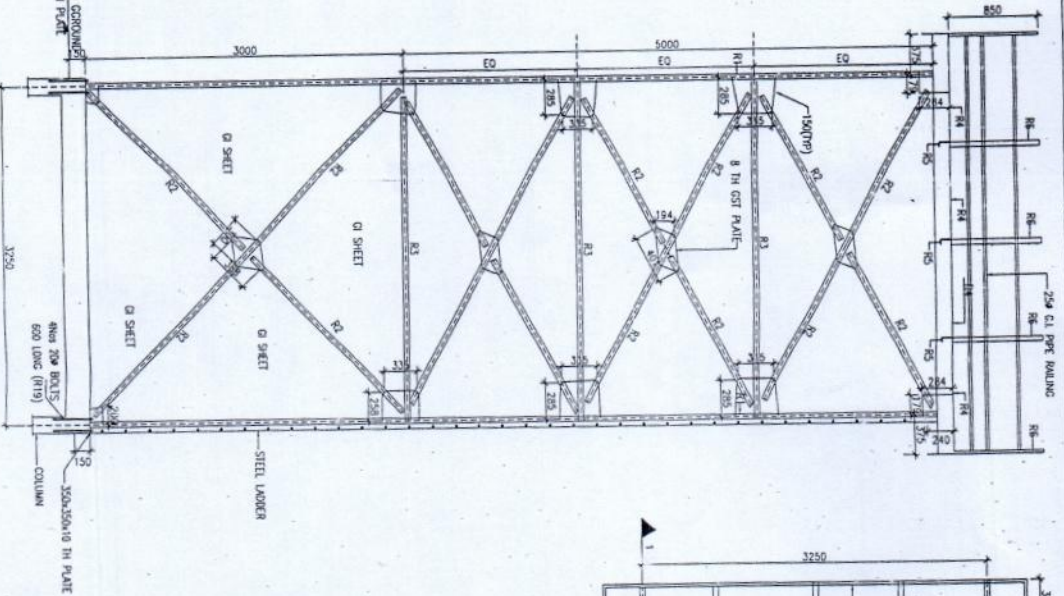
PLAN
AT LEVEL 8m ABOVE ROOF SLAB
OF ATTENDANT ROOM



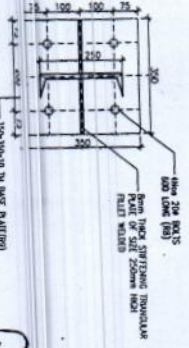
PLAN
OF ATTENDANT ROOM
AT LEVEL 3m ABOVE ROOF SLAB



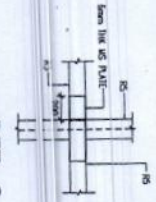
SECTION 1-1
(SHOWING BRACING OF COLUMN)



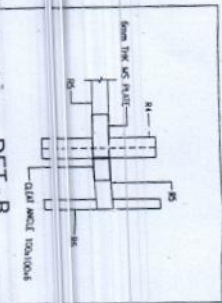
SECTION 2-2
(SHOWING BRACING OF COLUMN)



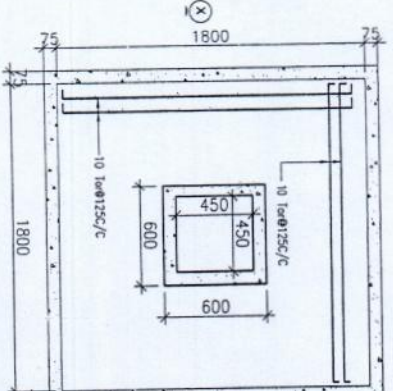
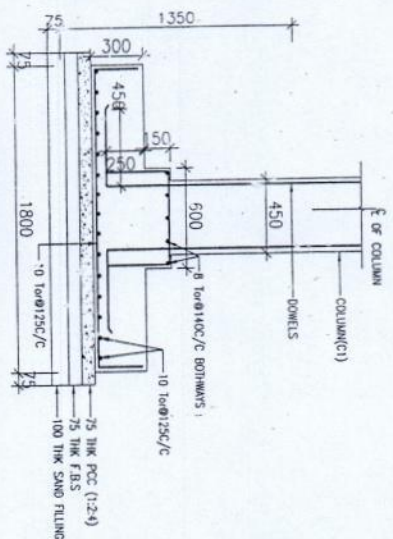
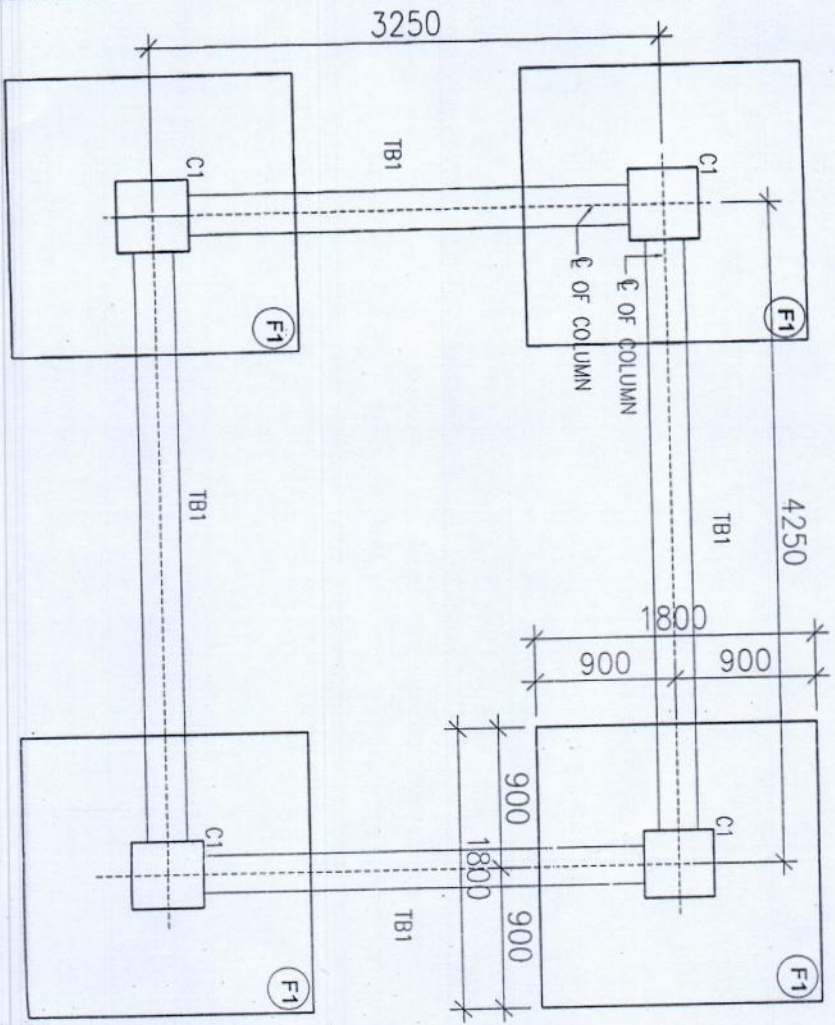
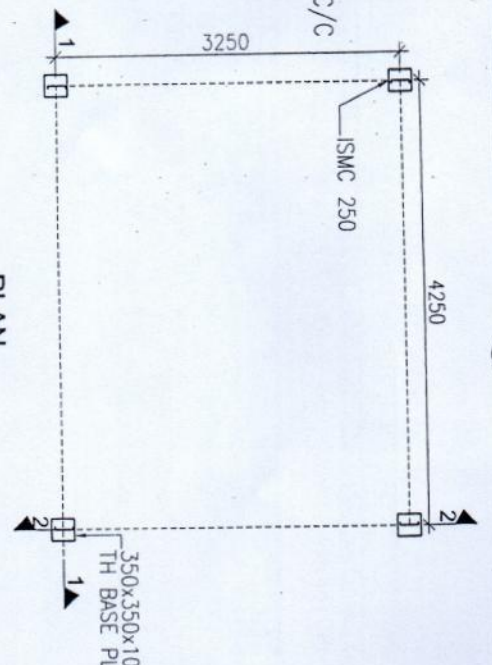
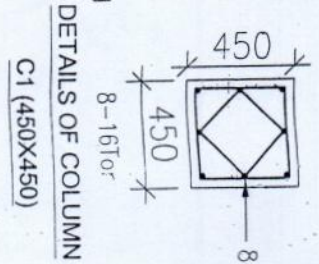
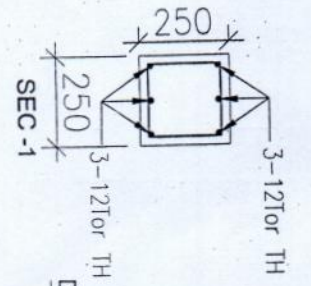
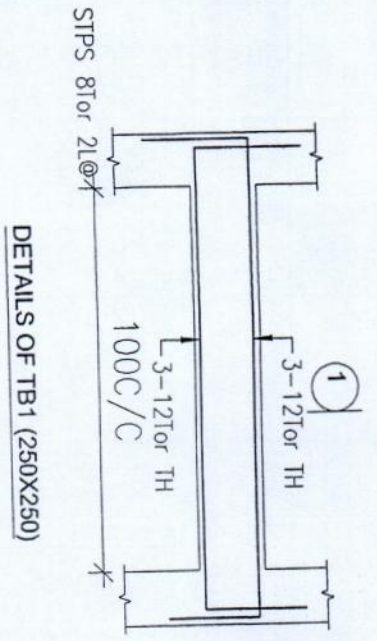
DETAILS OF BASE PLATE



DET - C



DET - B



SIZE OF ALL THE BEAMS (250X250)

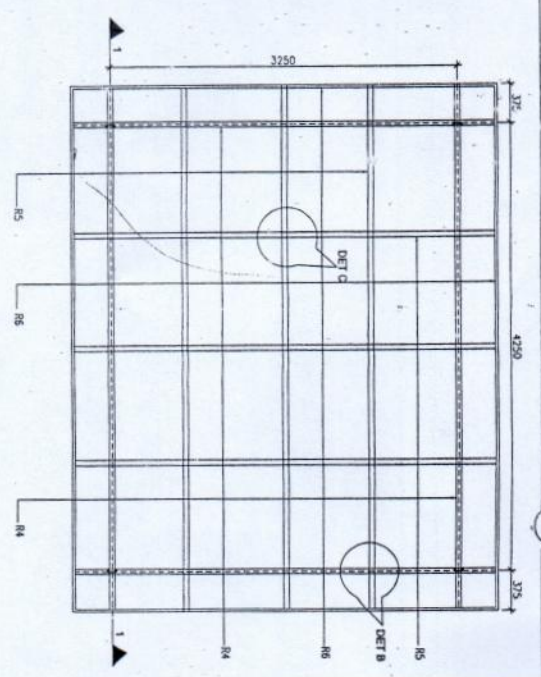
Handwritten notes and signatures

Handwritten notes and signatures

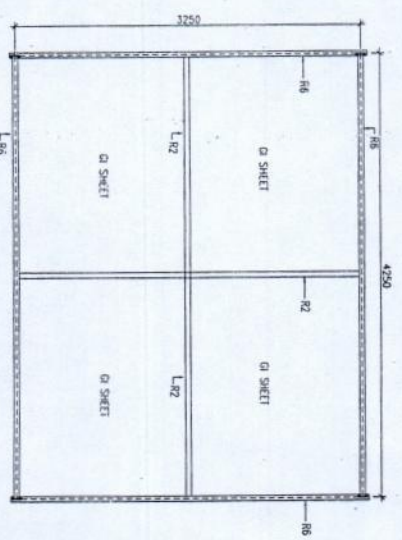
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76

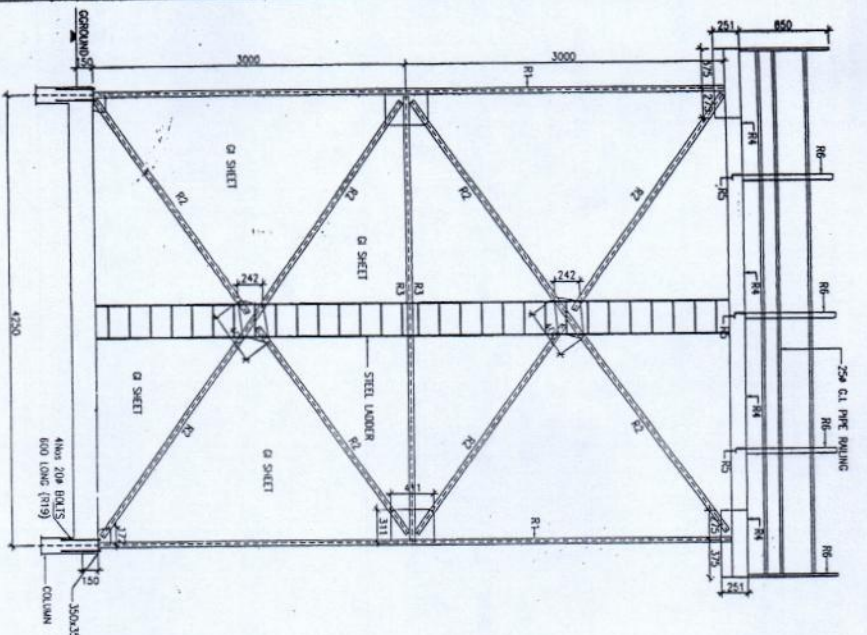
LEGEND	
MEMBERS MNO	SECTION
R1	ISM 21
R2	L65x65
R3	L100x10
R4	ISM 1
R5	ISM 1
R6	L65x65



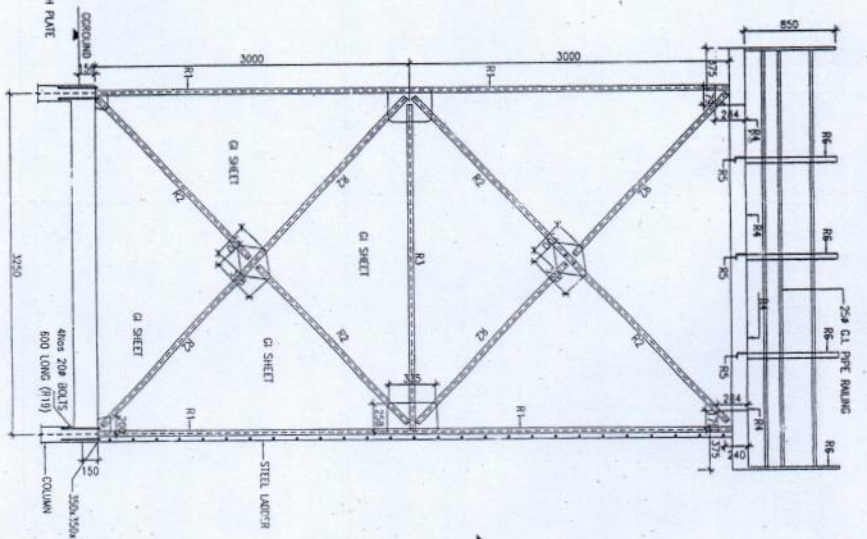
PLAN
AT LEVEL 6m ABOVE ROOF SLAB
OF ATTENDANT ROOM



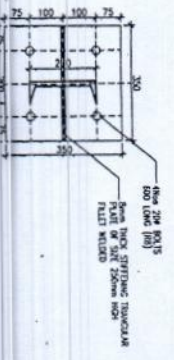
PLAN
AT LEVEL 3m ABOVE ROOF SLAB
OF ATTENDANT ROOM



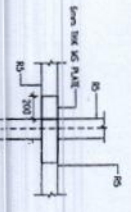
SECTION 1-1
(SHOWING BRACING OF COLUMN)



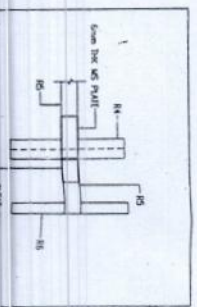
SECTION 2-2
(SHOWING BRACING OF COLUMN)



DETAILS OF BASE PLATE



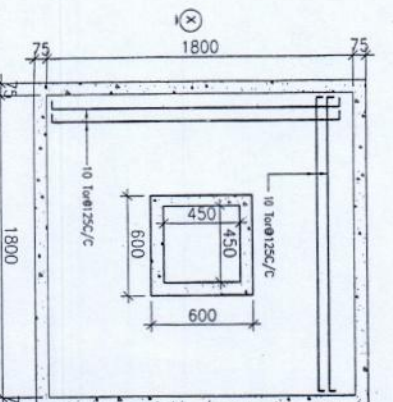
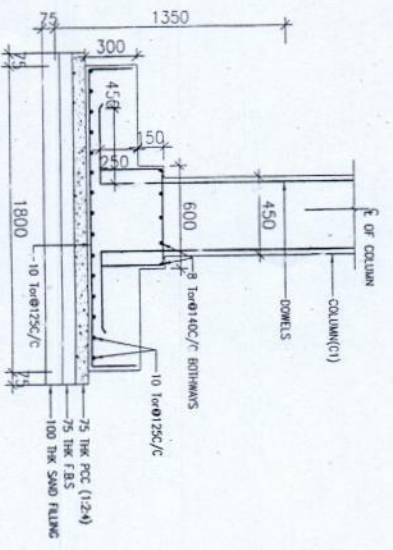
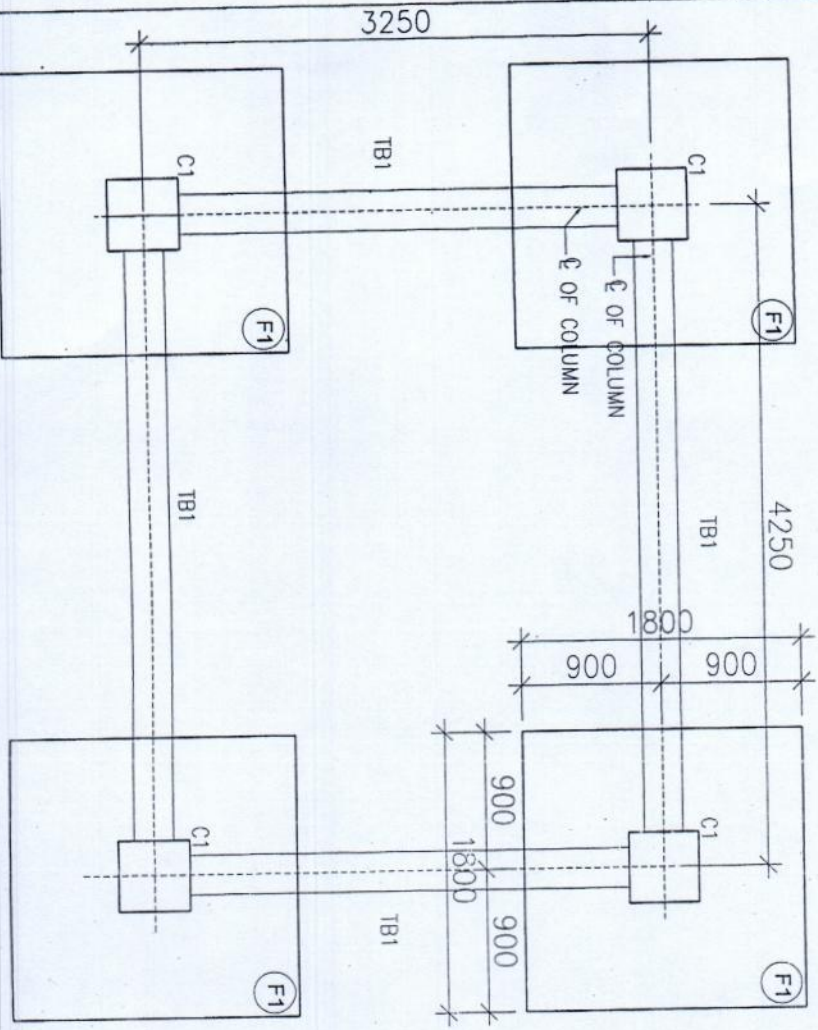
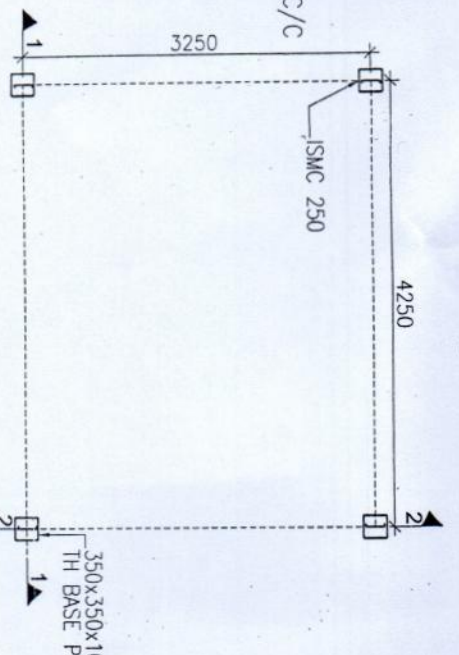
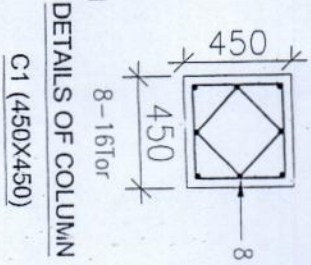
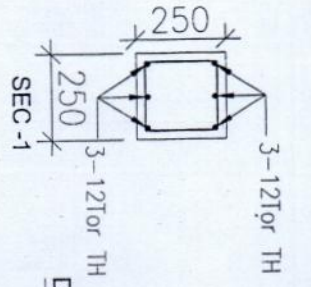
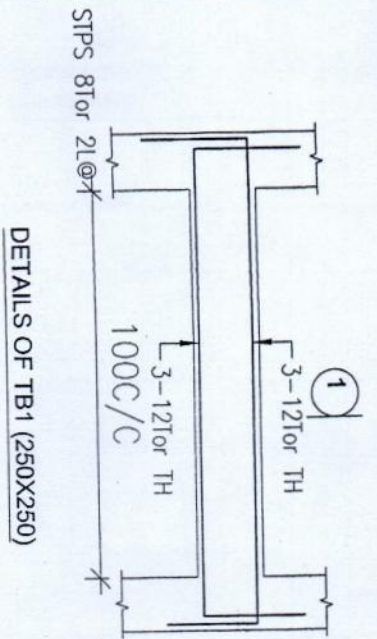
DET - C



DET - B

Md. Akbar
1717116

PUBLIC HEALTH ENGINEERING DEPARTMENT, DHAKA
STRUCTURE OF STEEL TOWER FOR 5000/10000 LIT
TITLE: CAPACITY PVC TANK



SIZE OF ALL THE BEAMS (250X250)

(Handwritten notes and signatures)

(Handwritten signature)