पत्रांक–2ब०/जला०–01–14/2017 3398 /न०वि०एवंआ०वि०

बिहार सरकार
नगर विकास एवं आवास विभाग

प्रेषक,

राम सेवक प्रसाद,
सरकार के अवर सचिव।

सेवा में,

नगर आयुक्त,
नगर निगम, मुजफ्फरपुर।

पटना, दिनांक–05/07/19

विषयः– वित्तीय वर्ष 2019–20 में भीषण गर्मी के कारण उत्पन्न पेयजल समस्या के निदान हेतु नगर निगम, मुजफ्फरपुर में 93 पेयजलापूर्ति योजना के क्रियान्वयन हेतु ₹2765.82000 लाख (सताईस करोड़ पैसठ लाख बेरासी हजार रु०) मात्र के योजना की प्रशासनिक स्वीकृति के संबंध में।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि वर्तमान में भीषण गर्मी के कारण राज्य के कतिपय नगर निकायों में पेयजल की समस्या आ रही है तथा आम नागरिकों को कठिनाईयों का सामना करना पड़ रहा है। उक्त के आलोक में नगर आयुक्त, नगर निगम, मुजफ्फरपुर के पत्रांक– 196, दिनांक– 14.06.2019 द्वारा कुल 49 वार्डों 142 योजनाओं का तैयार कर विभाग में उपलब्ध कराया गया है, जिसकी प्राक्कलित राशि ₹5065.04393 लाख है। उक्त 142 योजनाओं में से 93 योजनाओं से प्रत्येक योजनाओं में 250 घरों को गृह जल संयोजन प्रदान किया जाना है।

2. विभाग के स्तर पर उक्त 93 योजनाओं के प्राक्कलन में संशोधन करते हुए (प्रति संलग्न) कुल प्राक्कलित राशि ₹2765.82000 लाख का प्रावधान किया गया है। उक्त योजनाओं में 5HP के सबमर्सिबल पम्प, 8 मीटर Staging Overhead PVC Tank एवं 05 वर्षीय रख–रखाव (बिजली बिल छोड़कर) का प्रावधान है।

3. उक्त के आलोक में निदेशानुसार नगर निगम, मुजफ्फरपुर क्षेत्रान्तर्गत 93 पेयजलापूर्ति योजनाओं की प्रशासनिक स्वीकृति निम्नवत प्रदान की जाती है :–

(राशि रू० में)

क्र0 स0	वार्ड न0	वार्डवार योजनाओ की संख्या	प्राप्त तकनीकी अनुमोदित प्राक्कलन की कुल राशि	संशोधित प्राक्कलित/प्रशासनिक स्वीकृति की राशि	अभियुक्ति
1	*2*	*3*	*4*	*5*	*6*
1	1	2	7022204.00	5948000.00	1. Modified estimated amount is based on BCD SOR (27.09.2018) and
2	2	2	7022204.00	5948000.00	
3	3	2	7022204.00	5948000.00	

4	4	2	7022204.00	5948000.00	PHED model Estimate Rate(2019-20) 2.Total nos of submersible Pumps of 5 HP-93 Nosare to be installed with distribution systems for 250 nos of House holds each. 3. Construction of RCC staging 4.0Mx3.0Mx8.0M high with 2x5000 liter PVC water Tank- are included in the modified estimate.
5	5	1	3511102.00	2974000.00	
6	6	2	7022204.00	5948000.00	
7	7	2	7022204.00	5948000.00	
8	8	1	3511102.00	2974000.00	
9	9	2	7022204.00	5948000.00	
10	10	1	3511102.00	2974000.00	
11	11	1	3511102.00	2974000.00	
12	12	3	10533306.00	8922000.00	
13	13	1	3511102.00	2974000.00	
14	14	1	3511102.00	2974000.00	
15	15	2	7022204.00	5948000.00	
16	16	2	7022204.00	5948000.00	
17	17	2	7022204.00	5948000.00	
18	18	2	7022204.00	5948000.00	
19	19	1	3511102.00	2974000.00	
20	20	1	3511102.00	2974000.00	
21	21	1	3511102.00	2974000.00	
22	22	1	3511102.00	2974000.00	
23	23	1	3511102.00	2974000.00	
24	24	1	3511102.00	2974000.00	
25	25	2	7022204.00	5948000.00	
26	26	2	7022204.00	5948000.00	
27	27	2	7022204.00	5948000.00	
28	28	2	7022204.00	5948000.00	
29	29	2	7022204.00	5948000.00	
30	30	2	7022204.00	5948000.00	
31	31	4	14044408.00	11896000.00	
32	32	3	10533306.00	8922000.00	
33	33	3	10533306.00	8922000.00	
34	34	2	7022204.00	5948000.00	
35	35	2	7022204.00	5948000.00	
36	36	2	7022204.00	5948000.00	
37	37	2	7022204.00	5948000.00	
38	38	2	7022204.00	5948000.00	
39	39	1	3511102.00	2974000.00	
40	40	2	7022204.00	5948000.00	
41	42	2	7022204.00	5948000.00	
42	43	2	7022204.00	5948000.00	
43	44	1	3511102.00	2974000.00	
44	45	2	7022204.00	5948000.00	
45	46	3	10533306.00	8922000.00	
46	47	3	10533306.00	8922000.00	
47	48	3	10533306.00	8922000.00	
48	48	5	17555510.00	14870000.00	
कुल योग		**93**	**326532486.00**	**276582000.00**	

4. **योजना का कार्यान्वयन निम्नांकित शर्तो के अधीन किया जायेगा :–**

(i) नगर निकाय द्वारा प्रत्येक House Hold Connection देने के क्रम में मकान मालिक का नाम, पता, आधार नम्बर, मोबाईल नं० एवं तस्वीर अपने अभिलेख में रखने के अतिरिक्त उनसे एक प्रमाण पत्र भी लेना सुनिश्चित किया जायेगा कि उनके घर में नल का जल उपलब्ध हो गया है। नल जल कनेक्शन से संबंधित सारी जानकारी विभाग द्वारा विकसित MIS पर Upload किया जायेगा।

(ii) **योजना का कार्यान्वयन ई–टेंडरिंग के माध्यम से निविदा आमंत्रित कर कराया जाएगा।**

(iii) क्रय संबंधी मामलों में विधिवत क्रय समिति का अनुमोदन प्राप्त कर क्रय किया जायेगा।

(iv) राशि का उपयोगिता प्रमाण–पत्र विहित प्रपत्र में महालेखाकार, बिहार, पटना को भेजते हुए उसकी प्रति सरकार को भी उपलब्ध करायी जायेगी। साथ ही योजना के कार्यान्वयन का वित्तीय एवं भौतिक प्रगति प्रतिवदेन भी सरकार को उपलब्ध कराया जायेगा।

(v) उक्त योजना इस शर्त के साथ स्वीकृत की जा रही है कि जलापूर्ति योजना का डुप्लीकेशन किसी अन्य योजना के तहत कार्यान्वित की जा रही/की गई योजना से किसी भी परिस्थिति में न हो।

(vi) उक्त प्रत्येक वार्ड की स्वीकृत योजना के कार्य स्थल पर एक बोर्ड प्रदर्शित किया जायेगा, जिस पर योजना का मद उसकी लागत राशि तथा पूर्ण होने की तिथि अवश्य आंकित किया जाय।

5. **मुख्यमंत्री शहरी पेयजल निश्चय योजना से संबंधित संकल्प सं०– 1287, दिनांक– 25.02.2016 की कंडिका– 05(i) के अनुरूप पंचम राज्य वित्त आयोग मद की कर्णांकित 30 प्रतिशत राशि, जो मुजफ्फरपुर नगर निगम के पास उपलब्ध है, में से उक्त योजना का कार्यान्वयन कराया जाएगा। उसके उपरांत राशि की आवश्यकता होने पर पंचम राज्य वित्त आयोग की अगली किस्तों में प्राप्त होने वाली राशि में से इस मद के लिए कर्णोंकित राशि से व्यय किया जाएगा।**

6. भारतीय लेखा एवं अंकेक्षण विभाग को इससे संबंधित अभिलेखों को देखने एवं जाँच पड़ताल करने का पूर्ण अधिकार होगा।

7. विभागीय संकल्प संख्या–1287, दिनांक– 25.02.2016 के कंडिका– 06 के अनुरूप अनुश्रवण की व्यवस्था एवं कंडिका– 07 के अनुरूप गुणवत्ता नियंत्रण की व्यवस्था की जायेगी।

8. योजना का कार्यान्वयन समय–समय पर राज्य सरकार द्वारा निर्गत अनुदेशों के आलोक में किया जायेगा। स्वीकृत राशि का व्यय उसी कार्य के विरूद्ध किया जायेगा, जिसके निमित राशि स्वीकृत की गई है।

9. इसकी सूचना प्रमंडलीय आयुक्त, तिरहुत प्रमंडल, मुजफ्फरपुर/जिला पदाधिकारी, मुजफ्फरपुर/प्रबंध निदेशक, बुडको/कोषागार पदाधिकारी, संबंधित कोषागार एवं अन्य को भी दी जा रही है।

अनु०–यथोक्त।

विश्वासभाजन,

सरकार के अवर सचिव।

मुजफ्फरपुर नगर निगम क्षेत्रान्तर्गत 8 मीटर स्टेजिंग पानी टंकी एवं 5 वर्षीय रख–रखाव (विद्युत विपत्र छोड़कर) के साथ 250 धरो को नल–जल योजना से आच्छादन संबंधी प्राक्कलित राशि की विवरणी

क्र0 स0	वार्ड न0	वार्डवार योजनाओ की संख्या	प्राप्त तकनीकी अनुमोदित प्राक्कलन की कुल राशि (₹)	संशोधित प्राक्कलित कुल राशि (₹)	अभियुक्ति
1	2	3	4	5	6
1	1	2	7022204.00	5948000.00	1. Modified estimated amount is based on BCD SOR (27.09.2018) and PHED model Estimate Rate(2019-20) 2.Total nos of submersible Pumps of 5 HP-93 Nosare to be installed with distribution systems for 250 nos of House holds each. 3. Construction of RCC staging 4.0Mx3.0Mx8.0M high with 2x5000 liter PVC water Tank- are included in the modified estimate.
2	2	2	7022204.00	5948000.00	
3	3	2	7022204.00	5948000.00	
4	4	2	7022204.00	5948000.00	
5	5	1	3511102.00	2974000.00	
6	6	2	7022204.00	5948000.00	
7	7	2	7022204.00	5948000.00	
8	8	1	3511102.00	2974000.00	
9	9	2	7022204.00	5948000.00	
10	10	1	3511102.00	2974000.00	
11	11	1	3511102.00	2974000.00	
12	12	3	10533306.00	8922000.00	
13	13	1	3511102.00	2974000.00	
14	14	1	3511102.00	2974000.00	
15	15	2	7022204.00	5948000.00	
16	16	2	7022204.00	5948000.00	
17	17	2	7022204.00	5948000.00	
18	18	2	7022204.00	5948000.00	
19	19	1	3511102.00	2974000.00	
20	20	1	3511102.00	2974000.00	
21	21	1	3511102.00	2974000.00	
22	22	1	3511102.00	2974000.00	
23	23	1	3511102.00	2974000.00	
24	24	1	3511102.00	2974000.00	
25	25	2	7022204.00	5948000.00	
26	26	2	7022204.00	5948000.00	
27	27	2	7022204.00	5948000.00	
28	28	2	7022204.00	5948000.00	
29	29	2	7022204.00	5948000.00	
30	30	2	7022204.00	5948000.00	
31	31	4	14044408.00	11896000.00	
32	32	3	10533306.00	8922000.00	
33	33	3	10533306.00	8922000.00	
34	34	2	7022204.00	5948000.00	
35	35	2	7022204.00	5948000.00	

क्र0 स0	वार्ड न0	वार्डवार योजनाओ की संख्या	प्राप्त तकनीकी अनुमोदित प्राक्कलन की कुल राशि (1)	संशोधित प्राक्कलित कुल राशि (2)	अभियुक्ति
36	36	2	7022204.00	5948000.00	
37	37	2	7022204.00	5948000.00	
38	38	2	7022204.00	5948000.00	
39	39	1	3511102.00	2974000.00	
40	40	2	7022204.00	5948000.00	
41	42	2	7022204.00	5948000.00	
42	43	2	7022204.00	5948000.00	
43	44	1	3511102.00	2974000.00	
44	45	2	7022204.00	5948000.00	
45	46	3	10533306.00	8922000.00	
46	47	3	10533306.00	8922000.00	
47	48	3	10533306.00	8922000.00	
48	48	5	17555510.00	14870000.00	
~~48~~	कुल	93	326532486.00	276582000.00	

Model Estimate for 250 HH Water Supply Scheme For Muzaffarpur
Popullation as per 2018 :-- 1250
Projected Population at Intermediate (2033) stage:- 1625

General Abstract of Cost

S. N.	Particulars	Qty.	Unit	Rate	Amount
1	**High Yielding Tubewell**				
	Cost for construction of 150mm x 100mm x 150m deep high yielding drilled tube well all complete as per direction of E/I. **as per Sub estimate 1**	1	Each	217000.00	217000.00
2	**Pump motor**				
	Supplying and installation of 5 HP Submersible pump and motor having discharge 4.37 lps **against a total head of 35 m** including doing power and light wiring S/F service wire extension of LT line (0.3Km) & 65mm dia GI medium class column pipe, 65mm dia N/R Valve, 65mm dia flange etc all complete as per direction of E/I **as per Sub estimate 2**	1	Each	104000.00	104000.00
3	**Distribution Network**				
	Providing laying and jointing distribution pipes as per IS specifications from 63 mm dia to 110 mm dia HDPE pipe for distribution net works etc all complete as per direction of E/I. **Total length of Pipe- 2026 m.** **as per Sub estimate 3**	1	Each	1321840.00	1321840.00
4	**House service connection**				
	House service connection with 15mm dia CPVC/MDPE pipe including fitting and fixing specials such as ferrule, stop cock, bib cock etc all complete. **as per Sub estimate 4**	250	Each	1674.00	418500.00
	SUB TOTAL				2061340.00
	Add contigency@1%				20613.00
					2081953.00
5	**Construction RCC Structure (8 m staging) taken from PHED (Previously not included in model estimate)**	1	Each	622856.00	622856.00
	Sub Total				2704809.00
	Add O&M Cost for 5 Years @2% Each year				268420.00
	Grand Total				2973229.00
	SAY (Rs)				2974000.00

Note:

1. The length of distribution pipe may decrease or increase as per actual site condition. The carriage of materials is based on Patna town. It may decrease or increase as per the actual distance. The carriage may be calculated as per attached sheet. Road cutting cost may increase or decrease as per actuals. The technical sanction may be accorded after above consideration.
2. Strongly advised that pipeline should be laid before construction of Naali-Gali

Sub-Estimate 1

Estimate for construction of 150mm x 100mm x 150m Deep High Yeild Tubewell

S.No.	Description	QTY	Unit	Rate	Amount
1	Providing all materials, labour and equipment for drilling by Reverse Rotary rig Machine for following dia of bore hole in all kind of soil mixed with Kankar, sand stone including providing sample box and collection starta sample at every 3.0M depth of drilling for ascertaining proper aquifer for completing High Yielding Tube Well all complete as per IS:2800-1979 & PHED specification and direction of E/I				
24.1.1.2	(a) 350mm dia bore from G.L to 30.0m below GL.	30	PM	425.10	12753.00
24.1.1.1	(b) 300mm dia bore from 30.0m to 90.0m and beyond Below GL.	60	PM	388.70	23322.00
24.2.1	(c) 300mm dia bore from 90.0m to 160.0m and beyond Below GL.	70	PM	453.50	31745.00
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC 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)150mm x 5mm thick pipe ISI mark.	30	PM	612.80	18384.00
24.3.1	(b)100mm x 5mm thick pipe ISI mark.	90	PM	309.90	27891.00
3	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC 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 dia and 1 mm slot.	30	PM	479.50	14385.00
4	Providing all tools and labour including supplying fitting & fixing the following accessories for aforesaid 150mm x 100mm T/W as per direction of E/I.				
P.H.E.D	(i) 150mm x 100mm dia M.S Reducer	1	Each	500.00	500.00
24.13.2	(ii)150mm dia M.S well cap.	1	Each	196.10	196.10
24.15.1	(iii)100mm dia M.S well shoe plug	1	Each	198.80	198.80
P.H.E.D	(iv)Centre guide suitable for 150mm dia pipe	3	Each	150.00	450.00
P.H.E.D	(v)Centre guide suitable for 100mm dia pipe	8	Each	100.00	800.00
24.14.2	(vi)MS clamp set 1.60m long	1	P.Pair	1190.00	1190.00

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S.No.	Description	QTY	Unit	Rate	Amount
5A/24.8	Providing all materials, labour and tools for providing and placing around tube well double washed pea gravel confirming to IS:8419-1977 of size 4mm to 8mm from dalbhumgarh of east singhbhum (JH) inclusive of loading, carriage, unloading & stacking in proper shape for measurement at site. (Stock measurement of clean and washed gravel shall be taken 13" as 12" in height to count void) as per direction of E/I.				
		8	PM^3	1225.10	9800.80
5B	Carriage of pea Gravel from Dhalbhumigarh (taken av distance 500km.)	8	PM^3	6583.16	52665.28
6	Supplying all materials and labours and equipments with fuel & lubricants and development and testing the tube well with air compressor for 20 hours to leave sand free clear water is discharged and providing V-notch for measuring the discharge of the tube well at various depth etc all complete as per PHED sepeification & direction of E/I.				
24.12		20	Per Hr	594.60	11892.00
7	Transportation and erection 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	Each	3000.00	3000.00
8	Supplying all materials and labours for arrangement for additionl water required during the drilling period for 70 Hrs & site clearance & levelling etc and providing the soap duster etc to staff engaged in drilling etc all complete work as per specification & direction of E/I.				
P.H.E.D		1	Each	7000.00	7000.00
9	Chemical and bacteriological testing of water sample including the cost of collection, carrying to designated PHE/other laboratories and submission of report in triplicate as per direction of E/I.				
		1	Each	500.00	500.00
	Total-				**216672.98**
	Say Grand Total				**217000.00**

Sub-Estimate 2

Installation of Pump & Motor with Panel

S.No.	Description	QTY	Unit	Rate	Amount
1	Supplying installation Testing and commissioning of 5 HP Submersible pump and motor having discharge 4.37 lps against a total head of 35m including three phase connection with service wire extension of LT line (0.3Km) & suitable dia GI medium class column pipe, suitable dia N/R Valve, suitable dia flange, submersible flat cable, LT connection from control panel to starter etc all complete with floor mounted outdoor type L.T feeder pillar, three phase starter cntroll pannel operated on 440 V, 3 phase, 50 c/s made of MS sheet (minimum 2 mm thick) duly spray power coated painting with all accessories as per direction of E/I				
		1	Each	104000.00	104000.00
	Total :				**104000.00**

Sub- Estimate 3

Water Supply Distribution System

S.No.	Description				Qty	Rate	Amount
1/2.8	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 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.						
	63mm	1476.0	0.46	0.5	341.694		
	90mm	300.0	0.49	1.0	147		
	110mm	250.0	0.51	1.0	127.5		
	5 % extra				30.8		
	Total-				647.0	319.60	206782.00
2/2.26	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						
	90% of item no 1				582.3	103.30	60152.00
3	Providing and supplying High Density Polyethyene pipe (HDPE pipe) of 20 mm to 225 mm OD and pressure 6.0 Kg/cm2 and 10 Kg/cm2 sutable for water supply which is available in all standard, like ISI-4984, ISO - 4427 DIN-8074 and various grades like PE-63, PE-80, PE-100 and newly invented PE 100+ materials						
	HDPE pipe of materials grade PE100- PN 10 (dia in mm)						
	63 mm dia				1475.91	119.39	176209.00
	90 mm dia				300.0	245.07	73521.00
	110 mm dia				250.0	363.93	90983.00
4	Supplying labours and tools for lowering in trenches, laying and jointing H.D.P.E. pipes in trenches and making butt welded joint, supplying heating mirror, jack etc. including hydraulic testing and providing night guard, barrier and red light to safe guard against ancident, all complete as per specification and direction of E/I						
	HDPE pipe of materials grade PE100- PN8 (dia in mm)						
	63 mm dia				1475.9	21.32	31466.00
	90 mm dia				300.0	38.16	11448.00
	110 mm dia				250.0	53.33	13333.00
5	Providing all materials labours tools and tackles for fitting, jointing and testing to HDPE Standard specials confirming to IS specifications etc all complete.						

S.No.	Description	Qty	Rate	Amount
	10% of item No-3			34071.00
6/ 18.31	Providing and fixing CI Sluice valves (with cap) Complete with bolts, nuts, rubber insertions etc.			
18.31.1.2	100mm dia Class II	1	3925.10	3925.00
7/ 18.59	Providing and fixing CI double acting air valve of approved quality and bolts, nuts, rubber insertion etc. compete			
18.59.2	80mm dia	1	5942.00	5942.00
8/ 18.35	Constructing masonry chamber 120 x 120 x 100cm inside in brick work in cement mortar 1:4 (1 Cement:4 coarse sand) for sluice valve, with CI Surface box 100mm top diameter, 160mm bottom diameter and 180mm 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), I/C necessary excavtion foundation concrete 1:5:10 (1 Cement:5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 Cement:3 Coars sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design.			
		1	17118.70	17119.00
9/ 18.36	Constructing masonry chamber 60 x 60 x 75cm inside in brick work in cement mortar 1:4 (1 Cement:4 coarse sand) for sluice valve, with CI Surface box 350x350mm top, 165mm bottom diameter and 180mm 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), I/C necessary excavtion foundation concrete 1:5:10 (1 Cement:5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 Cement:3 Coars sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design.			
		1	6703.80	6704.00
Road cutting and restoration				
10/ 15.24	Dismantling brick on edge soling in road including stacking serviceable materials in countable stacks within 15m lead and disposal of unserviceable materials with all leads etc all complete as per direction of E/I.			

	63mm dia	147.6	0.46	0.125	8.54		
	90 mm dia	30	0.51	0.125	1.91		
	110 mm dia	25	0.56	0.125	1.75		
	Total-				12.20	446.10	5445.00

S.No.	Description				Qty	Rate	Amount
11/ 11.73	Providing designation 100A one brick on edge soiling joints filled with local sand including cost of watering, taxes, royalty etc all complete as per building specification and direction of E/I.						
	63mm dia	147.6	0.46		68.34		
	90 mm dia	30	0.51		15.30		
	110 mm dia	25	0.56		14.00		
	Total-				97.64	470.43	45932.00
	Deduction for 80% Brick which are taken out during dismentaing work will be reused				4199	-7.6717	-32213.00
12/ 15.2.1	Demolishing Cement concrete manualy or by mechanical means including disposal of materials within 50m lead as per direction of E/I.						
	63mm dia	442.8	0.46	0.2	41.00		
	90 mm dia	90	0.51	0.2	9.18		
	110 mm dia	75	0.56	0.2	8.40		
	Total-				58.58	807.20	47288.00
13/ 4.1.3	Providing and laying in position cement concrete 1:2:4(1cement:2coarse sand:4 graded stone chips 20mm nomina size)etc. all complete as per standard specification and direction of E/I.						
	Quantity as per item no.13				58.58	6996.40	409872.00
14/ 2.28	Providing local clean sand in filling in foundation trenches and in plinth including ramming and water in layers not exceeding 150mm thick with all leads and lifts including cost of all materials labours royalty and taxes all complete as per building specification and direction of E/I.						
	63mm dia	442.8	0.46	0.15	30.75		
	90 mm dia	90	0.51	0.15	6.89		
	110 mm dia	75	0.56	0.15	6.30		
	Total-				43.94	492.76	21651.00
15/ 11.72	Providing designation 100A brick one brick flat soling joints filled with local sand and as per direction of E/I.						
	63mm dia	442.8	0.46		205.02		
	110 mm dia	90	0.51		45.90		
	160 mm dia	75	0.56		42.00		
	Total-				292.92	314.80	92210.00
	Total						**1321840.00**

Sub- Estimate 4

House to House Service connection

S.N.	Particulars	Quantity	Unit	Rate	Amount
1A/ 2.8	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 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.				
	For Pipe Laying (6 m X .3 m X 0.6m deep)	1.08	PM³	319.60	345.17
1B/2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidation each deposited layer by ramming and watering lead.	1.06	PM³	103.30	109.50
2/ PHED	Providing and fixing MDPE pipe (PE80) confirming IS: 15801/2008 and ISO 4427 with latest amendment PN12.5 (OD 20mm) (Basic Rate Rs.14.98 witout CP,OH and LC)	6	P/M	19.97	119.82
3	Lowering, laying and jointing M.D.P.E. pipes in proper position including all specials by compreession fitting/electrofusion and butt fusion jointing procesure including hydraulic testing as per relevant IS code complete with all materials for jointing procedures like Electrofusion machine, Electric mirror/heater, Butt fusion welding machine with hydraulic jack, top loading clamp, etc, pump and accessories for hydraqulic testing and all lobour as directed by Engineer-incharge as per IS-7634 Part II 2012 (amended up to date) Including Contractor's profit & Over head, water charge, labour cess but excluding trenching & refilling, road cutting				
	20mm dia	6	P/M	3.03	18.18
4/ 18.7.1	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work (Exposed on wall) 15 mm nominal outer dia pipes.	1	P/M	128.60	128.60
5/ 18.20.1	Providing and fixing 15 mm brass ferrule with CI mouth cover including boring and tapping the main etc. all complete job.	1	Each	271.40	271.40
6/ LS	Providing and fixing HDPE electrfusion service saddle including all complete job as per direction of E/I.	1	Each	400.00	400.00
7/ 18.15.1	Providing and fixing brass bib cock of approved quality 15 mm nominal bore	1	Each.	280.90	280.90
	Total :				1673.57
	Say Rs.:				**1674.00**