

**Punjab Local Government & Community Development  
Department**



**Punjab Cities Program  
PC-I Form**

**For**

**Rehabilitation of Municipal Services  
Infrastructure in Vehari City**

**Cost Estimate Rs. 108.250 Million PKR**

**December, 2019**

**Municipal Committee Vehari**

1022

31, G-B, G-C

187

## ANNEXURE-D

## Rehabilitaion of Municipal Services Infrastructure in Vehari City

## General Abstract of Cost

Head No.	Sub Head	Group-A Rehabilitaion work	Group-B Repair work	Group-C Supply Items	Cost (Rs.)	Cost in million PKR
1	Water supply system	4,76,90,881	-	-	4,76,90,881	47.69
2	Sewerage system	1,35,18,975	-	33,99,000	1,69,17,975	16.92
3	Street light	2,13,60,000	-	-	2,13,60,000	21.36
4	Solid waste management system	-	57,76,332	9,38,672	67,15,004	6.72
5	Parks	70,93,142	-	-	70,93,142	7.09
6	MC Buildings	1,33,200	-	-	1,33,200	0.13
	<b>Total Work outlay</b>	<b>8,97,96,199</b>	<b>57,76,332</b>	<b>43,37,672</b>	<b>9,99,10,203</b>	<b>99.91</b>
	Contingencies @ 2%	17,95,924	1,15,527	-	19,98,204	2.00
	Punjab Sales Tax @ 5%	44,89,810	-	-	49,95,510	5.00
	Punjab Sales Tax @ 16%	-	9,24,213	-	99,910	0.10
	Horticulture @ 1%	8,97,962	57,763	43,377	9,99,102	1.00
	Public awareness @ 0.25%	2,24,490	14,441	10,844	2,49,776	0.25
	<b>Grand Total</b>	<b>9,72,04,385</b>	<b>68,88,276</b>	<b>43,91,893</b>	<b>10,82,52,705</b>	<b>108.25</b>

Municipal Officer (Infrastructure)  
Municipal Committee  
VEHARI

Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI

Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI

Rehabilitation Work (Group A)			
General Abstract of Cost			
Head No.	Sub Head	Cost (Rs.)	Cost in million PKR
1	Water supply system <i>detail attached</i>	4,76,90,881 ✓	47.691 ✓
2	Sewerage system <i>- do -</i>	1,35,18,975 ✓	13.519 ✓
3	Street light <i>- do -</i>	2,13,60,000 ✓	21.360 ✓
4	Parks <i>- do -</i>	70,93,142 ✓	7.093 ✓
5	MC Buildings <i>- do -</i>	1,33,200 ✓	0.133 ✓
	<b>Total Work outlay</b>	<b>8,97,96,199 ✓</b>	<b>89.80 ✓</b>
	Contingencies @ 2%	17,95,924 ✓	1.796 ✓
	Punjab Sales Tax @ 5%	44,89,810 ✓	4.490 ✓
	Horticulture @ 1%	8,97,962 ✓	0.898 ✓
	Public awareness @ 0.25%	2,24,490 ✓	0.224 ✓
	<b>Grand Total</b>	<b>9,72,04,385</b>	<b>97.20 ✓</b>

*[Signature]*  
Municipal Officer (Infrastructure)  
Municipal Committee  
VEHARI


*[Signature]*  
Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI

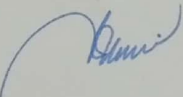
- [Signature]*
- (i) Estimate Technically sanctioned for Rs. 9,72,00,000/-  
i.e. Rupees Nine crore and seventy two lac only.
  - (ii) All code formalities should be completed before making payment on competition basis/lowest market rates.
  - (iii) The credit of existing old dismantled material should strictly be afforded to the project in accordance with the code rules and financial procedure properly.
  - (iv) The Engineer incharge will certify before making i.e. there is no over lapping of the work to avoid any wrong payment.
  - (v) The payment will be made as per actual w/done according to quality and quantity.
  - (vi) Picture of existing condition of works before execution.
  - (vii) Detail drawing/rate analysis and specifications should strictly be observed before making payment.
  - (viii) Inform about the schedule of execution.

*[Signature]*  
Chief Engineer (Infrastructure)  
Punjab Municipal Corporation  
L.G. & S.E. Deptt.  
LAHORE.

*[Signature]*  
D.H.

Summary Rehabilitation of Water Supply System		
Sub Head No.	Description	Estimated Cost PKR
1.1	Replacement of tube well i/c pump house and pumping machinery with allied works. <i>Detail attached</i>	2,34,41,771 ✓
1.2	Rehabilitation of GST at IPS(Madina colony & 9/11 WB) <i>- do -</i>	35,58,244 ✓
1.3	Rehabilitation of Pump house (plaster, painting etc.) at IPS <i>- do -</i>	6,71,633 ✓
1.4	Replacement of sluice valves at IPS <i>- do -</i>	1,98,228 ✓
1.5	Rehabilitation of brick pavement of approach road to at IPS <i>- do -</i>	5,01,639 ✓
1.6	Replacement of pumping units in IPS H Block WW =2 Nos and Madina Colony WW = 1Nos <i>- do -</i>	29,88,000 ✓
1.7	Replacement of hypo chlorinators <i>- do -</i>	10,08,000 ✓
1.8	Replacement of sub-standard consumer connection <i>- do -</i>	9,42,000 ✓
1.9	Rehabilitation of boundary walls of water works <i>- do -</i>	29,25,741 ✓
1.10	Replacement of damaged transmission main (8" and 10") <i>- do -</i>	5,55,000 ✓
1.11	Upgradation of UF water filtration plants by addition of RO filtration plants 1000 ltr/hr including arsenic removal plants and repair of civil works <i>- do -</i>	1,05,00,625 ✓
1.12	Intstallation of Power factror improvement equipment at source tubewells <i>- do -</i>	4,00,000 ✓
<b>Water Supply System Total Cost</b>		<b>4,76,90,881</b>

  
Municipal Officer (Infrastructure)  
Municipal Committee  
VEHARI

  
Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI

  
Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI



**Sub Head No. 1.1 Summary for Replacement of tube well i/c pump house and pumping machinery with allied works.**

Bill No.	Cost (Rs)
Subhead No-1.1.1: Installation of tubewell <i>Detail attached</i>	9,26,611 ✓
Subhead No-1.1.2: Vertical turbine Pump & Specials <i>- do -</i>	30,00,497 ✓
Subhead No-1.1.3: Bulk Water Meter <i>- do -</i>	1,28,400 ✓
Subhead No-1.1.4: External Electrification <i>- do -</i>	1,17,675 ✓
Subhead No-1.1.5: Pump house <i>- do -</i>	5,15,172 ✓
<b>Total cost for Tubewell (1 No.)</b>	46,88,354 ✓
<b>Total for Tubewells (5 Nos.)</b>	<b>2,34,41,771</b>

*[Signature]*  
**Municipal Officer (Infrastructure)**  
**Municipal Committee**  
**VEHARI**

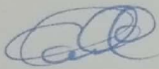
*[Signature]*  
**Sub Engineer (Infrastructure)**  
**Municipal Committee**  
**VEHARI**

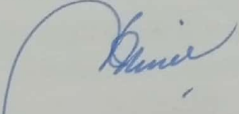
*[Signature]*  
**Sub Engineer (Infrastructure)**  
**Municipal Committee**  
**VEHARI**

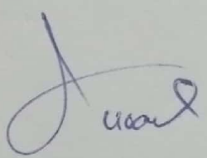
Cost Estimation No-1.1.1: Installation of tubewell

Item Nr.	MRS-2019 Ref.	Description	Unit	QTY	Unit Rate (PKR)	Cost (PKR)
1	2	3	4	5	6	7=5x6
<b>Schedule Items</b>						
1	23/5	Direct rotary/reverse rotary drilling of bore for tube well in all types of soil except shingle gravel and rock a) From ground level to 250 ft. below ground level - 26" i/d.	Rft	250	777.95 MRS	1,94,488
2	23/14	Providing and installing M.S blind pipe socketed/welded joint, M.S. reducer (where necessary) in tube wells borehole including jointing/welding with strainer, etc. complete: 12" i/d, 1/4" thick.	Rft	123	2,302.75 MRS	2,83,238
3	23/8	Furnishing sample of water from borehole per set of two bottles	Per Set	2	170.70 MRS	341
4	23/18	Shrouding with graded pea gravel 3/8" to 1/8" as per design & specifications	Cft	495	87.85 MRS	43,486
5	23/17(i)	Testing and developing of tubewell of size 6" (150 mm) i/d and above continuously upto 1.5 cs. discharge	Per Hour	72	1,320.25 MRS	95,058
<b>Non-Schedule Items</b>						
6	N.S	Providing and installing, Fiber Glass blind pipe in tube well borehole including jointing with the Fiber Glass strainer at the bottom and MS pipe at the top: 10" i/d, 0.25" thick	Rft	20	1,560 A.o.R attached	31,200
7	N.S	Providing and installing, Fiber Glass strainer in tube well bore hole including sockets, special socket etc. including jointing complete in all respect with 10% open area ; 10" i/d, 0.25" thick	Rft	100	1,740 A.o.R attached	1,74,000
8	N.S	Providing and installing, Fiber Glass Bail plug in tube well bore hole 10" i/d & 10 ft long	Each	1	16,800 A.o.R attached	16,800
9	N.S	Taking soil samples (one number at every 5 ft.) from each stratum including submission of results of strata analysis, bore log and tubewell construction charts etc.	Each	50	500	25,000
10	N.S	Providing and sealing with puddle clay between shrouding and grouting etc.	Job	1	10,000 A.o.R attached	10,000
11	N.S	Sealing of annular space around 12" mild steel housing pipe with 1:1 cement sand slurry including all sorts of materials as per dimensions shown in the drawing.	Rft	25	1,000 A.o.R attached.	25,000

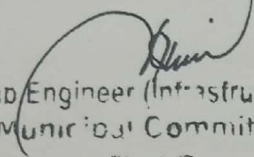
12	N.S	Providing and fixing M.S. cap to cover the tubewell casing upto <u>12" dia 1/4" thick</u> including welding.	Each	1	3,000 ✓	3,000 ✓
13	N.S	Providing and laying cement concrete block size as per drawing with RCC ratio <u>1:2:4</u> to house casing complete including screening of aggregate, shuttering, M.S Bars size <u>1/2" i/d</u> & <u>2 Nos. clamps</u> with <u>1/2" thickness 6" width</u> & <u>5 ft length</u> and placed at at right angle to each other for holding the tubewell housing.	Job	1	15,000 ✓ <i>A.O.R attached</i>	15,000 ✓
14	N.S	Testing water samples collected from the tubewell for Coli forms, E-Coli, TDS & other dissolved chemicals, <u>TSS, pH, BOD5</u> , complete in all respects	Per Set	2 ✓	5,000 ✓	10,000 ✓
Total for installation of tubewell (1 No.)						9,26,611

  
Municipal Officer (Infrastructure)  
Municipal Committee  
VEHARI

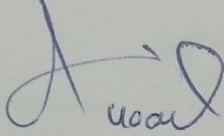
  
Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI

  
Sub Engineer (Infrastructure)  
Municipal Committee  
VEHARI

Analysis of rate for Fiber Glass blind pipe					
Item no	Description	Unit	Quantity	Rate (PKR)	Cost (PKR)
1	Providing and installing, Fiber Glass blind pipe in tube well borehole including jointing with the Fiber Glass strainer at the bottom and MS pipe at the top: <u>12" i/d, 0.25" thick</u>	Rft	1	1,560	1,560
Add 10% Contractor profit and 10% overhead					312.00
<b>Total</b>					<b>1,872.00</b>

  
 Sub Engineer (Infrastructure)  
 Municipal Committee  
 VEHARI

  
 Municipal Officer (Infrastructure)  
 Municipal Committee  
 VEHARI

  
 Sub Engineer (Infrastructure)  
 Municipal Committee  
 VEHARI