

OFFICE OF THE EXECUTIVE ENGINEER PUBLIC HEALTH ENGINEERING DIVISION KARACHI.

NO.EC/AB/ 3307 /2016. Karachi Dated, 20/ 5 /2016.

NOTICE INVITING TENDER.

Sealed tender on B-I/B-II form are hereby invited from the interested participants reputed experienced firms & contractors registered with Pakistan Engineering Council.

The tender will be issued up-to 6-6-2016 at 12 noon and the same will be received back & opened on the same date at 12:30(AN). In case the bids are not responded on the next date for receipt & opening in fixed as 6-6-2016 Or 6-2016 at 12 noon (FN). The next tender documents can be had from the office of the undersigned on payment of tender fee shown against each item(Non refundable).

The bid security in shape of pay order of any schedule bank in favor of Executive Engineer Public Health Engineering Division Karachi, must be attached with the tender documents. Conditional tenders will not be accepted. The undersigned reserves the rights to reject any bid or all bids or all any time prior to the acceptance.

S.No.	Name Of Work	Estimated Cost	Bid 2% Security	Tender Fee	Time Period
1.	Repair of Clear Water Tank for Rural Water Supply Scheme Ibrahim Hyderi District Malir Karachi.(O/M)	0.844 Million.	0.017 Million	Rs.1000/=	3. Months
2.	Repair of M. Holes & Cleaning of Manholes i/c cleaning of sewer line for Rural Drainage Scheme Memon Goth Distt: Karachi (O/M)	0.835 Million.	0.017	Rs.1000/=	3 Months
3.	Repair of Man holes Replacement of sewer line & Cleaning of Man holes & Sewer Line for R/Drainage Scheme Khamiso Goth Distt: Karachi (O/M)	0.828 Million.	0.017 Million.	Rs. 1000/=	3 Months
4.	Providing Laying Jointing & Testing 12"Dia RCC Sewer Line & Cleaning of Sewer Line for Rural Drainage Scheme Mulla Essa Goth District Malir Karachi.	0.837 Million.	0.017 Million.	Rs. 1000/=	3 Months

1. É	P/L Conveyance main PE Pipe 4"dia Repair of C/Water Tank & Repair of civil	0.860 Million	0.017 Million.	Rs. 1000/=	3 Months
	Structure for Rural Water Supply			•	
	Scheme Pir Sirhandi Goth Distt:				
	Karachi.				

MANDATORY REQUIREMENTS.

- a. Bid bond in shape pay order in the name of Executive Engineer PHE Division Karachi.
- b. Valid PEC Registration Certificate in relevant category for Year 2016.
- c. Field of Specialization CE-09, CE-10, ME-06, EE-04.
- d. Affidavit in which the bidder undertakes that it is not involved in any litigation.
- e. National Tax Number Certificate with CNIC, Annual Return Statement of FBR and Audit report for the year 2015.
- f. Affidavit in which it should be undertaken that the information provided is true and correct.
- g. Affidavit that the bidders has not been black listed by any Government/Semi Government/Autonomous body.
- h. Sindh Revenue Board Registration Certificate.
- Bank statement showing 40% funds available for proposed Work.
 Tender documents shall be issued to the firms qualifying the above mentioned conditions.

The blank tender forms can be obtained from office of the undersigned on application during office hour's up-to __/__/2016 on payment of tender fee specified against each work Tenders will be received back on dated ______/2016. Up to 12.00 Noon & Will be opened on same date up to 12.30 PM being executive Engineer/Chairman in the presence of Committee Members, contractors of their authorized representative. In case of un-responded tenders next date the blank tender form can be obtained from office of the undersigned up to 03-06-2016 up to 12.00 Noon on payment of tenders fee specified against each work. The tenders with be received back on same date upto 12.30 PM and will be opened on same date up-to Executive Engineer/Chairman in the presence of Committee Member, contractors of their authorized representatives. The Earnest money specified would be pledged in the name of Executive Engineer Public Health Engineering Division Karachi in the shape of call deposit from any scheduled Bank and must be attached with bid documents, Otherwise it will not be entertained Earnest Money of un-successful bidders shall be returned after issuance of work orders of successful bidders.

Conditional or telegraphic tenders will not be entertained.

This tender notice (NIT) can also be seen on the Sindh Government website at www.sindh.gov.pk as well as SPPRA website at www.pprasindh.gov.pk.

In case of any kind of Pumping Machinery, Pumps & Pipes provided by the contractors must be provide invoice of authorized dealer/factory in Name of Executive Engineer PHE Division Karachi with sale tax paid certificate otherwise sales tax will be deducted from their

uills as per government policy. The undersigned payment made to contractor after receiving verification certificate from authorized dealer/factory of Pumping Machinery, Pumps & Pipes.

Procuring agency may reject all or any bid subjected to relevant provision of PPRA Rules-2010.

(MUHAMMAD AKBER BALOCH)
EXECUTIVE ENGINEER
PUBLIC HEALTH ENGG: DIVISION
KARACHI.

Copy forwarded with compliments for his kind information to.

- 1. The Chief Engineer, Public Health Engineering Department Government of Sindh Hyderabad for his kind information.
- 2. The Director, information Public Relation Department Government of Sindh, Block No.96 Sindh Secretariat Karachi along with (7)Seven Copies for publication in at lease three languages leading news papers, i.e Sindhi, Urdu & English.
- 3. The Director (C.B) Sindh Public Procurement Regulatory Authority (SPPRA) Government of Sindh block No.08 Secretariat No.04-A, Court Road Karachi, Along with demand draft No.04766793 Dated 19-5-2016, amounting to Rs.2000/- in the name of Director (A&F) SPPRA Government of Sindh.
- 4. The Superintending Engineer Public health Engineer Circle Hyderabad for his kind information.
- 5. The Members of Procurements Committee for information.
- 6. Assistant Engineer All Under PHE Division Karachi for information.
- 7. Copy to All Head of Branches PHE Division Karachi for information.
- 8. Copy to Notice Board for Local Publicity.
- 9. Copy to office file.



OFFICE OF THE CHIEF ENGINEER PUBLIC HEALTH ENGG: DEPARTMENT GOVERNMENT OF SINDH

105

NO: GM/PHED/ Hyderabad dated /2016. /2016.

OFFICE ORDER:

In Exercise of the power confirmed under Rule 31of the Sindh public procurement Rules 2010 (amended 2013), the following committee is hereby constituted to redress grievances / complaints that may arise during procuring proceedings in PHE Division Karachi.

Ma Aniona Tal	
Mr. Anjeeneer Lal Superintending Engineer	Chairman
PHE Circle Hyderabad.	
Mr. Mohsin Qazi	8
Executive Engineer	Member
Local Government Department	
Govt: of Sindh Karachi.	6 N
Mr. Saleem Ahmed Siddique	
Divisional Accounts Officer	Member
PHE Division Karachi.	

The Committee shall act in accordance with the rule 31 of Sindh public procurement rules 2010 (amended 2013).

(NAFEES AHMED SHAIKH) CHIEF ENGINEER

PUBLIC HEADTH ENGG: DEPARTMENT

C.C. to the:-

Manager (Assessment-IV) Sindh Public Procurement Regulatory Authority Govt: of Sindh Karachi for information.

Superintending Engineer, PHE Circle Hyderabad for information with reference to his letter No: GM/272 dated 16-02-2016.

Executive Engineer PHE Division Karachi for information with reference to letter No: PHE/148/3022 dated 19-01-2016.

Mr. Mohsin Cazi Executive Engineer Local Govt: Department Govt: of Sind: Karachi for information.

Mr. Saleem A med Siddique Divisional Accounts Officer PHE Division Kar, chi for information.



GOVERNMENT OF SINDH PUBLIC HEALTH ENGINEERIN DEPARTMENT Karachi dated the May, 2013

NOTIFICATION

No.SO(T)/PHE/SPPRA-Rules/2013 (pt-II), In exercise of powers conferred by Rule-I of SPP Rules-2010, the Division wise Departmental Procurement Communities are hereby constituted in Public Health Engineering Department as

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	DIVISION	PROCUREMENT COMMITTEE	
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	Hyderabad	F	CHAIRMA
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- 1		Executive Electric	
		Executive Engineer, Education Works	
ì		Division Hyderabad	Member
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1		Executive Engineer, PHE, Division	
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		*		Divisional Accounts Officer Hala Divn.	Member
11 17 30 30 3				Irrigation Department Hyderabad	
# 7	•	٠.		Assistant Engineer, PHE, Sub-Division	Member
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		.7	Karachi	Executive Engineer, PHE, Division	ده دا جامعها و داراً سامعها
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				Assistant	
				Executive Engineer, PHE, Sub-	Member
		8	3/II.	Division No. IV Karachi	
1.0		٥	Mirpurkhas	Executive Engineer, PHE, Division	Chairman
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				Assistant Engineer, Building Division	Member
	.			Works & Services Deptt. Mirpurkhas	Member
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24	Kashmore @ Kandhkot	Executive Engineer, PHE, Division Kashmore @ Kandhkot	Chairman	•
		Executive Engineer, Roads Kashmore @ Kandhkot	Member	
		Assistant Engineer, PHE, Sub-Division No. 1 Kashmore @ Kandhkot	Member	

Terms of reference of the Committees:

1. Preparing bidding documents

2. Carrying out technical as well as financial evaluation of the bids

Preparing evaluation report as provided in Rule 45

4. Making recommendations for the award of contract to the competent authority; and

5. Perform any other function ancillary and incidental to the above

S.M. KALEEM MAKKI

Secretary to Covernment of Sindh

A copy forwarded for information & necessary action to:-

- The Accountant General Sindh, Karachi.
- . The Administrative Secretaries (all) in Singh.
- The Commissioner (all) in Sindh.
- The Chief Engineer, PHED, Hyderabad / Sukkur.
- · The Director, Procurement Regulatory Authority Sindh Karachi.
- . The Deputy Commissioner (all) in Sindh.
- The Superintending Engineer, PHED (all) in Sindh.
- The Executive Engineer, PHE, Division (all) in Sindh.
- · PS to Secretary, PHED, Govt. of Sindh, Karachi.
- Additioanal Secretary, PHED, Govt. of Sindh, Karachi.

(ABDUL GHAFFAR SHAIKH)
Section Officer (Technical)

RURAL WATER SUPPLY/DRAINAGE SCHEMES IN PUBLIC HEALTH ENGINEERING DIVISION KARACHI. PROCUREMENT PLAN FOR THE YEAR 2015-2016, OPERATION & MAINTENANCE

			'n	1.		8.			S.#
Karachi.	Water Supply/Drainage	Maintenance of Rural	Operation &	2.		2	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	riocurement	S.# Description of
Scheme	Supply/Drainage	Nos: of Water	Various Items 5	3.				applicable	Quantity where
		Million	4.204	4.			2	cost.	Estimated Fund
		Million	10.000	5.	2016	Year 2015-	for the	Allocation	Fund
			ADP	6.		3	Funding.		ķ
				7.		-12		Method	Procuring
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				9.	(4)				Remarks



GOVERNMENT OF SINDH PUBLIC HEALTH ENGINEERING DEPARTMENT DISTRICT KARACHI

FUND HEAD

PROVINCIAL

MAJOR HEAD

MAJOR HEAD

Rural Drainage Scheme Memon Goth (O/M)

SERVICE HEAD

Detailed Working Estimate for Repair of Manholes, & cleaning of Manholes i/c cleaning of sewer line for

Rural Drainage Scheme Memon Goth (O/M).

Estimate has been framed in the office of the Executive Engineer Public Health Engineering Division Karachi for the Probable Expenditure that will be incurred for Repair of Manholes, & cleaning of Manholes i/c cleaning of sewer line for Rural Drainage Scheme Memon Goth (O/M).

ESTIMATE COST Rs. 8,35,119/-

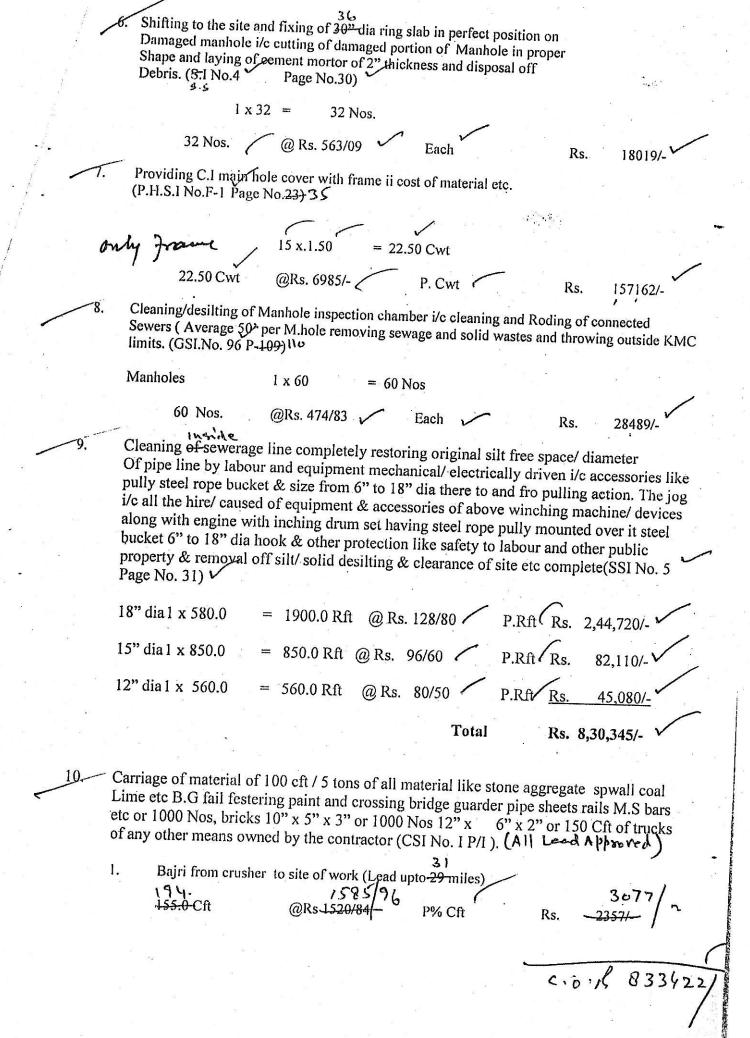
GENERAL DESCRIPTION

- 1: This Estimate for Repair of Manholes, & cleaning of Manholes i/c cleaning of sewer line for Rural Drainage Scheme Memon Goth (O/M).
- 2. Rates have been provided of General Schedule and Public Health Schedule of Rates.
- 3. The work will be carried out as per P.W.D specification.
- 4. Funds are available.

ASSISTANT ENGINEER
PUBLIC HEALTH ENGG:S/DIVN.IV
KARACHI

DETAILED WORKING ESTIMATE FOR REPAIR OF MAN HOLES, & CLEANING OF MANHOLES I/C CLEANING OF SEWER LINE FOR RURAL DRAINAGE SCHEME MEMON GOTH (O/M).

1. District alling cement concrete reinforced separation	
From concrete cleaning and straightening the same.	reinforcement
and straightening the same.	GSI No. 20 P-10)
Roylo 1 x 12 x 0 785 x 2 50 2 50	
Row $1 \times 12 \times 0.785 \times 3.50 \times 3.50 \times 0.75 = 86.54$	Cft
M -	
86.54 Cft @Rs 54454	
86.54 Cft @Rs. 5445/- P.%Cft	
2. Reinforced coment as well	Rs. 4712/-
2. Reinforced cement concrete work including all labour the cost of still reinforcement and its labour for lab	r and material event
the cost of still reinforcement and its labour for bend will be paid separately. This rates also includes all binds	ing and hinding at the
will be paid separately. This rates also includes all kin lifting shuttering curing rendering and finishing.	and binding which
lifting shuttering curing rendering and finishing	id of forms mould,
lifting shuttering curing rendering and finishing the ex	sposed surface
(including screening and washing of shingle (a) R.C.C beams columns rafts lintels and other structural	work in roof slab
beams columns rafts lintels and other structural memb	ers laid in position
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	71 (10).
Roof slab $1 \times 12 \times 0.785 \times 5.0 \times 5.0 \times 0.75 = 17$	
$\frac{1}{12} \times 0.783 \times 3.0 \times 3.0 \times 0.75 = 17$	6.62 Cft
176.62 Cft/ @Rs. 337/- P.Cft	D
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3. Fabrication of mild steel reinforcement for cement concrete laying in position making and fastening i/o post of him to	· Percolamona.
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laying in position making and fastening i/c cost of binding we rust from bars.(G.S.I No.8(ii)a Page No.20)16	rire also removal of
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7.09 Cwt @Rs. 5001/70 P Cwt	Po 25450
P Cwt	Rs. 35462/-
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4. Manufacturing and supplying of 21" RCC Manhole cover ca Concrete Ratio 19" deep at center, reinforced with ½" dia tor s	nst in 1:2:4 teel bar at
4. Manufacturing and supplying of 21" RCC Manhole cover care Concrete Ratio 3" deep at center, reinforced with ½" dia tor s 3" centre to centre welded to 3/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting idea.	ast in 1:2:4 teel bar at vo hook of
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4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 1" deep at center, reinforced with 1/2" dia tor significant to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and translation miles. (PHSI. No. 1 P-30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside Outside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 1/2:3 concrete with embedded 15 kg. C. I frame in perfect pot Transportation charge. (PHSI. NO. 2 P=30) 5.5.1. No. 2 - 1	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 3" deep at center, reinforced with ½" dia tor significant to centre welded to 3/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and trans 10 miles. (PHSI. No. 1 P- 30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside Outside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 ½:3 concrete with embedded 15 kg. C. I former in the concents of	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 1" deep at center, reinforced with 1/2" dia tor s 3" centre to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and trans 10 miles. (PHSI. No. 1 P- 30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 1/2:3 concrete with embedded 15 kg. C.I frame in perfect por Transportation charge. (PHSI. NO: 2 P-30) \$ · \$. I · No 2 - 1 1 x 32 = 32 Nos.	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 3" deep at center, reinforced with ½" dia tor significant to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and trans 10 miles. (PHSI. No. 1 P-30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside Outside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 ½:3 concrete with embedded 15 kg. C.I frame in perfect potential in the concents of the con	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a esition i/c - 3 •)
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 1" deep at center, reinforced with 1/2" dia tor s 3" centre to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and trans 10 miles. (PHSI. No. 1 P- 30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 1/2:3 concrete with embedded 15 kg. C.I frame in perfect por Transportation charge. (PHSI. NO: 2 P-30) \$ · \$. I · No 2 - 1 1 x 32 = 32 Nos.	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 3" deep at center, reinforced with ½" dia tor significant to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and trans 10 miles. (PHSI. No. 1 P-30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside Outside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 ½:3 concrete with embedded 15 kg. C.I frame in perfect potential in the concents of the con	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a esition i/c - 3 •)
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 3" deep at center, reinforced with ½" dia tor significant to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and trans 10 miles. (PHSI. No. 1 P-30) (R.A approved by Chief Engine 24" dia 1 x 50 = 50 Nos. 50 Nos. @ Rs. 1881/18 Each 5. Manufacturing and supplying of RCC ring slab of 21" dia inside Outside 7.5 width and 6" thick i/c 3/8" tor steel bar two concents 3/8" dia 8 Nos. cross link bar welded and two sunk type hook, 1:1 ½:3 concrete with embedded 15 kg. C.I frame in perfect potential in the concents of the con	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a esition i/c - 3 •)
4. Manufacturing and supplying of 21" RCC Manhole cover can Concrete Ratio 3" deep at center, reinforced with ½" dia tor significant to centre welded to 1/16" thick 3" wide M.S plate to 3/8" dia tor steel bar including compacting i/c curing and transportation of the significant	est in 1:2:4 teel bar at vo hook of sportation within er) Rs. 94059/- le 36" dia stric ring with casted in a esition i/c - 3 •)



	2.	Sand from Ghad	ioroita e C	4)		
, ·		n	gar site of work (Lead	upto 40 miles)	8	4 2
1	8	-78.0-Cft	1911/	56		- m. 1
		-70.0 CIL	@Rs. 1879/00	P% Cft	Rs.	1854/
	3.	Compant C			110.	1/100/-7
	٥.	Cement from jav	vedan cement factory	lead upto 36 miles		· []
				,		and a s
		-31.0-Bags	@Rs . 27/93-21	/33 P.Bag	. D-	832/
=	4	9	11 -	1 - 1246	Rs.	- 866/-/- '
	4.	Steel from Karac	himili to site of work	lead 19 miles	6	
			16/0	1		:1
		7.09 Cwt.	@ Rs11/95	P.Cwt		148/
		12 · v	O 1.1175	r.cw _l	Rs.	-85/=
		1266 1266		~ ~		
			B) .	G.Total	Rs8	,35,119/
		00	*		\ K 8	36306/
	1	V.)	1.
	6			(mg	1 sugl	836300/-
	- 7			11	64 OB	036309-
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7	18					
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(RUPEES: EISUL Lacthry Sixthoused

SUPERINTENDING ENGINEER Public Health Engg; Circle Hyderabadt

CHIEF ENGINEER.
PUBLIC HEALTH ENGG. DEPTT

COVERNMENT OF SINDH, HYDERARAD.

DETAILED WORKING ESTIMATE FOR REPAIR OF MAN HOLES, & CLEANING OF MANHOLES I/C CLEANING OF SEWER LINE FOR RURAL DRAINAGE SCHEME MEMON GOTH (O/M).

MATERIAL STATEMENT

S.no	ITEM	QTY	BAJRI	H/SAND	CEMENT	STEEL
1	RCC plain 1:2:4	176.62	155.42	77.71	31.08	
	Fabrication R cc M. Holecord	7.09 √ 5 υ				7.09
-		30	39		চ	
- A	TOTAL		155,42- 194: 4L	-77.71 96.71	31.08	-7.09 12.09
			155.00	78.00 -	31.00 3 9	-7.09

ASSISTANT ENGINEER
PUBLIC HEALTH ENGG:S/DIVN.IV
KARACHI

GOVERNMENT OF SINDH PUBLIC HEALTH ENGINEERING DEPARTMENT DISTRICT KARACHI

FUND HEAD

PROVINCIAL

MAJOR HEAD

٠._

MAJOR HEAD

Rural Drainage Scheme Mulla Essa Goth

District Malir Karachi. (O/M)

SERVICE HEAD

Detailed Working Estimate for Providing, Laying,

Jointing and Testing 12" dia RCC sewer line & Cleaning of Sewer line for Rural Drainage Scheme Mulla Essa Goth District Malir Karachi. (O/M)

Estimate has been framed in the office of the Executive Engineer Public Health Engineering Division Karachi for the Probable Expenditure that will be incurred for Providing, Laying, Jointing and Testing 12" dia RCC sewer line & Cleaning of Sewer line for Rural Drainage Scheme Mulla Essa Goth District Malir Karachi. (O/M)

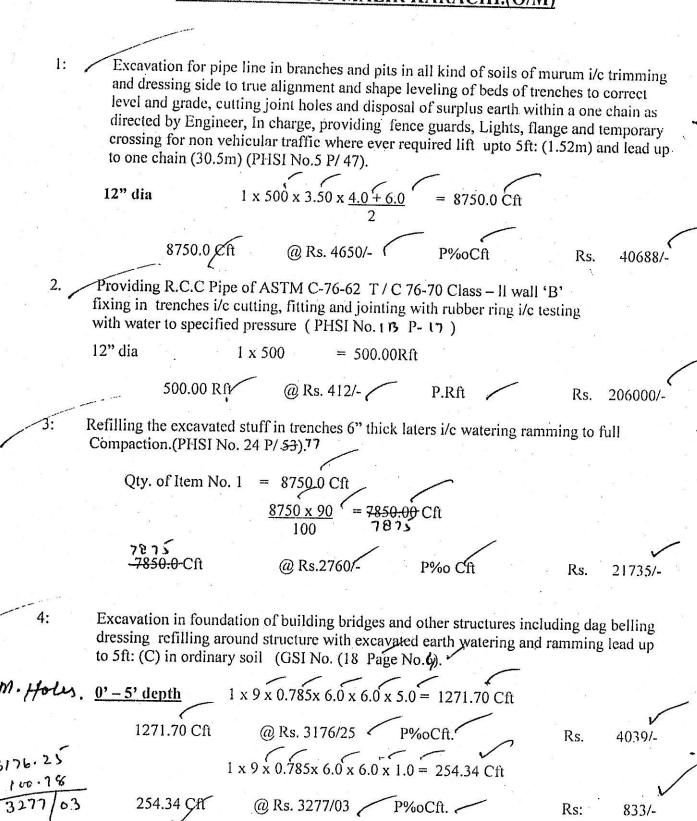
ESTIMATE COST Rs. 8,36,900/-

GENERAL DESCRIPTION

- 1: This Estimate for Providing, Laying, Jointing and Testing 12" dia RCC sewer line & Cleaning of Sewer line for Rural Drainage Scheme Mulla Essa Goth District Malir Karachi. (O/M)
- 2. Rates have been provided of General Schedule and Public Health Schedule of Rates.
- 3. The work will be carried out as per P.W.D specification.
- 4. Funds are available.

ASSISTANT ENGINEER
PUBLIC HEALTH ENGG: S/DIVN.II
KARACHI

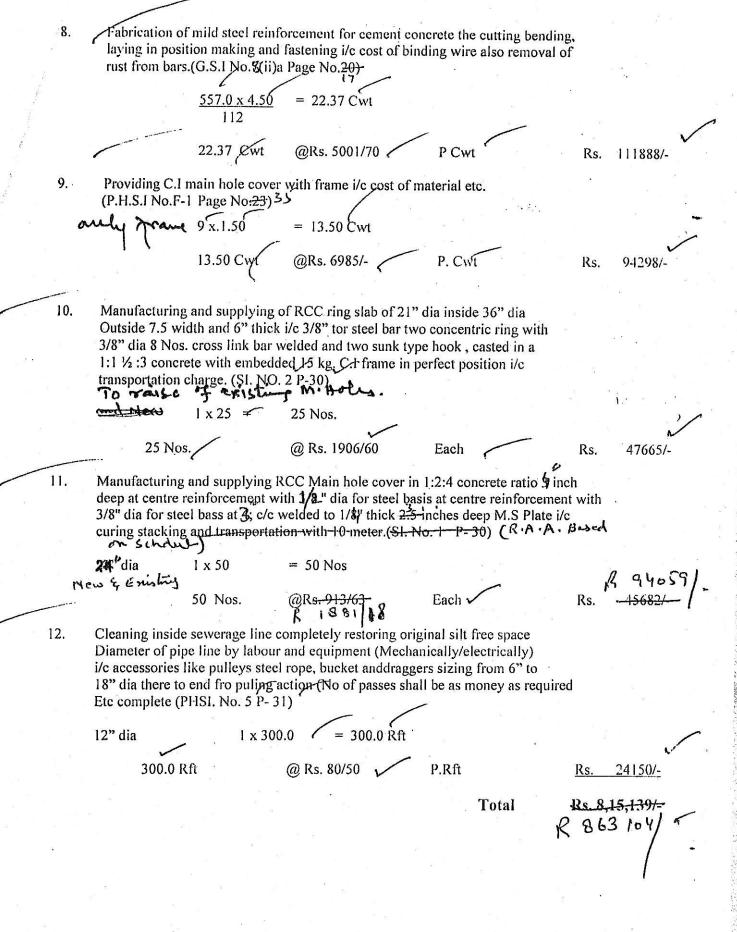
DETAILED WORKING ESTIMATE FOR PROVIDING, LAYING, JOINTING AND TESTING 12" DIA R.C.C SEWER LINE & CLEANING OF SEWER LINE FOR RURAL DRAINAGE SCHEME MULLA ESSA GOTH, DISTRICT MALIR KARACHI.(O/M)



L.O.B 2,73 2957.

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Rehandling of earth work upto single throw of kassi-phaorah (GSI no.9 P/3)
             Qty. same item No. 4
                                        = 1271.70 + 254.34 = 1526.04 \, \text{Cft}
                                    9 x 3.14 x 5.50x 0 50x 5. = 388.57
                          L-)
                 -1526.04-Cft
                                    @Rs. 1058/75 V
                  1137.46
        Cement concrete plain including placing compacting finish and curring complete
         i/c screening & washing of stone aggregate without shuttering (GSI No. 18 P/5).
         Ratio 1:4:8
                                9 \times 0.785 \times 6.0 \times 6.0 \times 0.5 = 127.17 \text{ Cft}
         Manhole
                  127.17 CR
                                    @Rs. 11288/75
                                                                                      Rs.
                                                                                            14356/-
       (b) For C.C Ratio (1: 2: 4)
                               9 x 0.785x 4.0 x 4.0 x 1.33
        Chennal
                                                                           150.34 Cft
        Deduction
                               9 \times 0.785 \times 4.0 \times 1.33 \times 1.33 (-)
                                                              Total
                   100.35 Cft
                                       @ Rs. 14429/25
                                                               P% Cft
                                                                                     Rs.
                                                                                           14480/-
        Reinforced cement concrete work including all labour and material except
7.
        the cost of still reinforcement and its labour for bending and binding which
       will be paid separately. This rates also includes all kind of forms mould,
       lifting shuttering curing rendering and finishing the exposed surface
       (including screening and washing of shingle (a) R.C.C work in roof slab
       beams columns rafts lintels and other structural members laid in position
       complete in all respects (i) Ratio . (1:2:4) (GSI No.6 P/16).
       Ratio 1:2:4
                      9 \times 0.785 \times 6.0 \times 6.0 \times 0.50
       Raft
                      9 x 3.142 x 4.50 x 0.50 x 5.0
       Vertical wall
                                                                  318.13 Cft
                      9 x 0.785 x 5.0 x 5.0 x 0.75
      Roof
                                                 Total
                                                                 577.77 Cft
      Deduction
      Manhole cover 9 x 0.785 x 2.0 x 2.0 x 0.75
                                                                   21.19 Cft
                                                 Total
                                                                 556.57 Cft
                      557.0 Cft
                                     @Rs. 337/-
                                                            P.Cft
                                                                                    Rs. 187709/-
```

c.o. 1/2 491044



									7/X/0
13.	100	(A)	(5) (45)	any class w (PHSI No. 1			cal transport es)	i/c unload	ling and
	12" d	ia	500.0 Rft	@ Rs.	720/24	P.%	Rft	Rs.	3601/-
14.	Lime etc or	etc B.G 1000 No	fail festeri s, bricks l	ng paint and	l crossing " or 1000	bridge guar Nos 12" x	stone aggre der pipe she 6" x 2" or (I).	ets rails M	I.S bars
	1.	Bajri fr 73 9 -700.0 C		eY o site of work @Rs 139		o 25 miles) P% Cft	4 , 4 5 4	Rs. •	16 277
	2.	Sand from 3 69 , -350.0 C	10 -1 0.	site of work @Rs. 16		32 miles) P% Cft		Rs.	5972/J
- 1 - 1		Cement 132 · -127.0 B	x .	@Rs. 20		upto 23 mil	es.	Rs.	2657/-
	4.	Steel fro 27.37 -22.37 C	om Karachi	inill to site of the control of the	of work lead $\frac{1}{3}$	d 11 miles. P.Cwt	G.Total	Rs. R {	256/ 209/- 3 8 5 8 6 7/ 36,903/-
		~	HIM Y	7			Say	1007 Variation of Control	,36,900/- 8 8 5 9 00/ ₋
	C HE.		NGINEEI ENGG:S/I I			EXE PUBLIC	CUTIVE E HEALTH E KARAC		
# <u></u> #	cus a	1c	HIEF ENGIN	JEER. HYDERAB	ONLY	SUP Pub	ERINTENDING lic Health Er Hyderal	20/Clicle	

MATERIAL STATEMENT

S.no	ITEM	QTY	BAJRI	H/SAND	CEMENT	STEEL
1	CC plain 1:4:8	127.00	122.0	61 650	12.0	
2	CC plain 1:2:4	100.00	88.0	44.0 /	17.0	
3	RCC plain 1:2:4	557.00	490.0 /	245.0	98.0 95 8•	22.37
****	TOTAL	8	7 00.0 739	-350.0→ 36 ዓ	127.0 → 132 ·	22.37 · 2.7 · 3.7

ASSISTANT ENCINEER
PUBLIC HEALTH ENGG:S/DIVN.II
KARACHI

GOVERNMENT OF SINDH PUBLIC HEALTH ENGINEERING DIVISION KARACHI.

FUND HEAD.

PROVINCIAL.

MAJOR HEAD.

MINOR HEAD.

RURAL WATER SUPPLY SCHEME

IBRAHIM HYDRI, DISTRICT MALIR KARACHI.

SERVICE HEAD.

DETAILED WORKING ESTIMATE FOR

REPAIR OF CLEAR WATER TANK FOR RURAL

WATER SUPPLY SCHEME IBRAHIM HYDRI.

DISTRICT MALIR KARACHI.

Estimate has been framed in the office of the Executive Engineer, Public Health Engineering Division Karachi for the probable expenditure that will be incurred on the work of Repair of clear water tank for Rural Water Supply Scheme Ibrahim Hyderi District Malir, Karachi.

ESTIMATED COST. RS. 8,43,200/-

GENERAL DESCRIPTION.

- 1. This Estimate for the work of. Repair of clear water tank for Rural Water Supply Scheme Ibrahim Hyderi District Malir, Karachi.
- 2. Rate have been provided of General Schedule and Public Health Schedule of Rates.
- 3. The work will be carried out as per P.W.D. specification.
- 4. Funds are available.

Assistant Engineer
Public Health Engineering S/Div-IV
District Karachi.

DETAILED WORKING ESTIMATE FOR REPAIR OF CLEAR WATER TANK FOR RURAL WATER SUPPLY SCHEME IBRAHIM HYDERI DISTRICT MALIR, KARACHI.

REPAIR OF CLEAR WATER TANK

11(2) Cement plaster (1:4) upto 20 height 3/4" thick(GSI Item No:10 Page No.52) In side of tank 2 x 3.142 x 60 x 10.0 ° 3770.40 Sft 2 x 3.142 x 62 x 3.0 Outer side 1168.82 Sft ROOF 681.81 Roff slab chaja 2 x 3.142 x 62 x 3 1168.82 Sft Total = .6108.04 Sft 5621. 0 -6108.04-Sft @Rs. 3015/76 P.%/Sft Cement concrete plain i/c placing compacting finishing and curing complete i/c Screening & washing of stone aggregate w/o shuttering (G.S. Item No. 5 (a) P.16) RATIO. 1:2:4. 629.15 $1 \times 0.785 \times \frac{61.0 \times 61.0}{1.0 \times 61.0} \times \frac{0.167 + 0.25}{0.167 + 0.25} =$ Coo L Bed of tank Bottom-1 x 0.785 x 60.0 x 60.0 x 0.33 Total 1562 . ~ Qty. 1541.52 Cft. @ Rs. 14429/25 \ Water proofing layer over the domical or flat slab of the HSR in 2 coast of bitumen laid using 34 lbs % Sft per % (PHSI 2 Page 55) Roof tradinent 5 x 0.785 x 60.0 x 60.0 14130.0 Sft P%Sft ' 14130.0 Sft @Rs. 2208/-Rs. 311990/= P/F in position C.C foundation 1:3:6 M.S ladder of angle iron 2" x 2" x 1/4 a part with M.S Bar 3/4" dia space 1.00' apart painting 3 coats with anti corrosive steel paint etc. complete (PHS Item No.3 Page No.15) for M.S ladder $4 \times 15.00 =$ 60.00 Rft @Rs. 799/-60.00 Rft P.Rft. Rs. 47940/-

(40) (7)	Providing C.I main høtes cover with frame i/c cost of material etc complete (PHSI No.1 P/35).
	Cover only $1 \times 8 = 8.0 \times 30 \text{ kg} = \frac{240.00}{50.08} \text{ kg} = 4.79 \text{ Cwt}$
	4.79 Cwt @Rs. 6985/- P.Cwt Rs34458/- Rs34458/- Total Rs. 8,00,022/- /
	6. Carriage of material of 100 cft / 5 tons of all material like stone aggregate spwall coal Lime etc B.G fail festering paint and crossing bridge guarder pipe sheets rails M.S bars etc or 1000 Nos, bricks 10" x 5" x 3" or 1000 Nos 12" x 6" x 2" or 150 Cft of trucks of any other means owned by the contractor (CSI No. I P/I).
3 H	1. Bajri from crusher to site of work (Lead upto 37 miles) 1375. 1390/60 Rs. 1781/32 P% Cft Rs. 24172/-
	2. Sand from Ghaghar to site of work (Lead upto 16 miles) 996
	3. Cement from jawedan cement factory. (Lead upto 29 miles) 3. 3. 22/53 -332.0 Bags @Rs. 23/73 P.Bag Rs. 7878/-
	Assistant Engineer Public Months Following Assistant Engineer Assistant Engineer Executive Engineer
	Public Health Engineering S/Div.IV Public Health Engineering District Karachi. Division Karachi
	(RUPEES: E.I.Su.) Lacthirty Kree - SUPERINTENDING ENGINEER Public Health English Circle Hyderagad.

CHIEF ENGINEER.
PUBLIC HEALTH ENGG. DEPTT
VERHAPAT OF SINDH, HYDERABAD.

MATERIAL STATEMENT

S.no	ITEM	QTY	BAJRI	H/SAND	CEMENT	STEEL
1	Cement plaster 1:4 3/4" thick	·6108.04 \$621 . v		335.94	-69:63 -64.67	
2	CC plain 1:2:4	-1541.60 1562 · .	1 356.60- 1374 • \$6	678.30- 687.28	262.00 265.54	===
TOTAL		200.00	-1 014.24 -	331.63 329.61		
	SAY		-1357.0- 1375	-1014.0 496	- 332.00 - 3 3 -8	: -

ASSISTANT ENGINEER
PUBLIC HEALTH ENGG:S/DIVN.IV
KARACHI

GOVERNMENT OF SINDH.

FUND HEAD.

PROVINCIAL.

MAJOR HEAD.

MINOR HEAD.

RURAL WATER SUPPLY SCHEME PIR SIRHANDI

GOTH DISTRICT MALIR KARACHI (O/M)

SERVICE HEAD.

DETAILED WORKING ESTIMATE FOR

PROVIDING LAYING CONVEYANCE MAIN P.E PIPE 4" DIA, REPAIR OF CLEAR WATER TANK. & REPAIR OF CIVIL STRUCTURE FOR RURAL WATER SUPPLY SCHEME PIR SIRHANDI GOTH

DISTRICT MALIR KARACHI (O/M)

This Estimate has been framed in the office of the Executive Engineer, Public Health Engineering Division Karachi for the probable expenditure that will be incurred for the work of Providing Laying, Conveyance Main P.E Pipe 4" Dia, Repair of Clear Water Tank, & Repair of Civil Structure for Rural Water Supply Scheme Pir Sirhandi Goth District Malir Karachi

ESTIMATED COST. Rs. 8,60,3301-

GENERAL DESCRIPTION

- This Estimate for the work of Providing Laying, Conveyance Main P.E Pipe 4" Dia, Repair of Clear Water Tank, & Repair of Civil Structure for Rural Water Supply Scheme Pir Sirhandi Goth District Malir Karachi
- 2. Rate have been provided of General Schedule and Public Health Schedule of Rates.
- 3. The work will be carried out as per P.W.D. specification.

4. Funds are available.

Assistant Engineer
Public Health Engineering S/Div:II

Karachf.

DETAILED WORKING ESTIMATE FOR PROVIDING LAYING CONVEYANCE MAIN P.E PIPE 4" DIA, REPAIR OF CLEAR WATER TANK, & REPAIR OF CIVIL STRUCTURE FOR RURAL WATER SUPPLY SCHEME PIR SIRHANDI GOTH DISTRICT MALIR KARACHI (O/M)

GENERAL ABSTRCT OF COST

 CONVEYANCE 	MAIN 4" DIA.
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275066/ Rs. -2,73,465/

2. REPAIR OF CLEAR WATER TANK

258237 2,54,900/-Rs.

3. REPAIR OF CIVIL STRUCTURE

TOTAL

882580 Rs. 8,60,331/=

SAY

8.60,330/-Rs.

Assistant Endinger Public Health Engg:S/D/vision No.II District Karachi

Executive Engineer Public Health Engineering Division Karachi

SUPERINTENDING ENGINEER Public Mealth and; Circle Hyderapad.

CHIEF ENGINEER.
PUBLIC HEACH ENGG. DEPTT

GOVERNMENT OF SINDH, HYDER ABAD.

DETAILED WORKING ESTIMATE FOR 4" DIA CONVEYANCE MAIN AT WATER SUPPLY SCHEME PIR SARHANDI GOTH DISTRICT MALIR KARACHI.(O/M)

				10	
		1.	Dismantling and removing road mentalling (GSI No. 51 P13)	*	
1			1 x 140 x 6.0 x 1.50 = 1260.00 Cft		

			Qty. 1260.00 Cft. @ Rs. 605/- P.% Cft.	Rs	7623/=
	•	and the state of t	Excavation for pipe line in trenches and pits in all kinds of soil of trimming and dressing sides to true alignment and shape leveling of trenches to Correct level and grade, cutting, joints, holes and of surplus earth Within a one chain as directed by Engineer inches providing fence guards Lights, flags and temporary crossing for vehicular traffic where ever Required lift upto 5 ft.(1.52 m) and lead one chain.(30.5 m) (PHSI No. 5 Page No. 62). For crossing 1 x 200.0 x 6.0 x 4.0 = 4800.00 Cft Qty. 4800.00 Cft. @ Rs. 4650/- P.%o Cft.	ig of beds disposal narge, non	22320/=
	3.	á j E f	Excavation for pipe line in trenches and pit in soft rock by hamm and chiseling where blasting is prohibited dressing sides to true and shape leveling of beds of trenches to Correct level and grad joints, holes and disposal of surplus earth Within a one chain as Engineer incharge, providing fence guards Lights, flags and temfor non vehicular traffic where ever Required lift upto 5 ft. and lead one chain. (PHSI No. Bage No. 47).62	alignment e, cutting, directed by porary crossing)
		F	For crossing 1 x 200.0 x 6.0 x 3.0 = 3600.00 Cft		=38772/
			Qty. 3300:00 Cft. @ Rs. 10770/- P.%o Cft.	Rs.	-38795/=→
	4.	ti b c ir fo	Excavation for pipe line in trenches and pit in hard rock by blastir trimming and dressing sides to true alignment and shape leveling beds of trenches to Correct level and grade, cutting, joints, holes disposal of surplus earth Within a one chain as directed by Engin incharge, providing fence guards Lights, flags and temporary crofor non vehicular traffic where ever Required lift upto 5 ft.(1.52m) upto one chain.(30.5 m) (PHSI No. 10 Page No. 48).69	g of and neer ssing	
			$1 \times 200.0 \times \frac{6+5}{2} \times 3.0$ = 3300.00 Cft.	e s	
		, 2	Qty. 3300.00 Cft. @ Rs. 24150/- P.%o Cft.	Rs.	79659/=
107	5.	S	Supply of Pit sand excavation. (SMI No. 49 P-4) 1 x 200.0 x 3.0 x 3.0 = 1800.00 C		
		С	$ \begin{array}{rcl} 1 \times 200.0 \times 3.0 \times 3.0 & = 1800.00 \text{ C} \\ 39 \cdot 25 & = 88.00 \text{ C} \\ 0.5 \cdot 20.5 & = 88.00 \text{ C} \\ & & & & & & & & & & & & & & & & & & &$	<u>Çft</u>	= 10449/
			Qty. 1712.00 Cft. @ Rs. 900/- P.% Cft.	Rs.	-15408/ -

6.	Providing layi	ng/jointing-of	polyethylene-pipe (1	HDPE-100) SDR-13.6/	<u></u>	12°
	PN-8-conform	ing-to-ISO-44:	27-Dirr 8074.8.75 &	PS-3380:1994-		
	Manufactured	by-API-certifi	ed, fixing in trench	including cutting fitting	vect hich.	
<u>10</u> (810)	Transportation	including testi	ng with-water-to-a-pr	essure of also includes	200,00	
	District Karac	hi @ working	pressure of 6-bars (2	te of work Ayoob Goth	4	
ar .	(PHSI-No	-P-25): (110 n	im P.E Pine	Thy len De Pil	CS CHOPH	27/Din 8079
	36 1 1 433	11	151	Miglion D. E. Pelle 15 co alf come of 200.0 Rft CPHS	P580 & PS	13051
	Main road 4"	dia 1 x 1	200 =	200.0 Rft 200.0	2 Klo/- P.	- 25
					* * * * * * * * * * * * * * * * * * *	Name:
	Oty 2	00.00 Rft.	@ Pa 224/	n n a	_	1.000
	Qty. 2	.00.00 KII.	@ Rs. 224/-	P.Rft.	Rs.	44800/=
₀ 7.	C.I. Sluice valv	ve heavy nattei	n (Test-pressure 300	Ib/ea inch	: :	
10%	(imported) (PI	ISM. Item No	.2 Page No.9).	rorsq. men		
	4" dia. 1 x 2	= 2 Nos	@ Rs. 5460/-	Each.	Da	100207-
-0				Each.	Rs.	10920/=
10/8.	C.I. tail piece.(SMI. No. 9 P-	15)			
* ************************************	4" dia. 1 x 4	= 4 Nos.	@ Rs. 487/50	Each.	Rs.	1950/=
10%	Fire Hydrant te	e (PHSI. No. 1				2. WES
10%	· ' /					
	4" dia. 1 x 4	= 4 Nos.	@ Rs. 1112/50	Each.	Rs.	4450/=
10/10.	Air valve doubl	e acting 3" x 1	" (imported) (SMI. 1	No. 8 P18-)		
	1 x 4	= 4 Nos.	@ Rs. 4000/=	Each.	Rs.	16000/=
	£	2				*
E		Land In the second		g e	- e	
10)1.	But fusion joint	of P.E. Pipe. (PHSI. No. ii P- 20)	1" & " X X		•
(0	422 425 1 - 2 2 -	2 1.1.4.	O. D. 1000/00	D. 1.	_	
	4" dia. 1 x 2 =		@ Rs. 1000/00	P.Joint	Rs.	2000/=
12.				required diameter and		
	resting joint aid	ing with abeste	es cement pressur e to	me to the specified		
*	Pressure & mak	ing boot all lea	ndy joint etc. comple	te (PHSI No. 1 P-1-8)		
	NOTES AND A STATE OF THE STATE				0	=2052
	4" dia 2 x 2	= 4 Joints.	@ Rs. 93/-	P. Joint	Rs.	372/=
13.	Refilling the Ex-	cavation stuff	and trenches 6" thick	layer Including water	ing,	
			n etc. Complete. (P	.H.S. Item No. 24 Page		
			13.60	- 12960		
	90% Qty. as Ite	m No. 2+3 & 4	1 = 4800+3600+33	300 = 11700.0 -		
Đ	8	<u>-11700</u>	0 - x 90 = -10530	0-Cft. 7/799		
	- E.	10	0 (06/9)	.10	8.11	· 002-01
		619.	O D 07/0/	D.04 G.0		= 29309/
	Qty. +05	30.0 Cft	@ Rs. 2760/-	P.%o Cft.	Rs.	-29063/= -
	er 24			·		70304/.
		at at			C/0 Ks. 2	10204/.
	VV.	ii.				· ·

Cartage of UPVC/ P.E pipe of any class by mechanical transport i/c loading unloading and stacking at site.
4" dia (100mm) P.E pipe from factory to site of work (Lead 36 miles)

Qty. 200.00 Rft. @ Rs. 46/19- P.%Rft.

Add 10% Good . Doglit on S. 11. on 23. 45769 [

Total Rs. 2,73,465/=

= 275066

Assistant Engineer
Public Health Engg:S/Division No.II
District Karachi

Executive Engineer
Public Health Engineering
Division Karachi

DETAILED WORKING ESTIMATE FOR REPAIR OF CLEAR WATER TANK FOR RURAL WATER SUPPLY SCHEME, PIR SARHANDI GOTH, UC DARSANO CHHANO DISTRICT KARACHI.(G/M)

PART-B REPAIR OF CLEAR WATER TANK

Cement plaster (1:4) upto 20° height 3/4" thick (GSI No. 11(c) Page No. 51) Inside l x 3.142 x 40 x 10.00 1256.80 Sft. Outside wall 1 x 3.142 x 42 x 3.00 395.89 Sft. Roof slab Chajja (11-0.75) 230.93 1 x 3.142 x 42.00 x 3.00 207.37 sft. 1883.62 TOTAL 1860:06 Sft. 1204.0 -1860-06 Sft. - 56817 @ Rs. 3015/76 P%Sft. Rs.-56095/= Cement concrete plain i/c placing compacting and curing complete i/c screening 2. & washing of stone aggregate w/o shuttering (GSI No. 5 P/15) Ratio 1:2:4 Top of Tank 1 x 0.785 x 44.0 x 44.0 x <u>0.167 + 0.25</u> 316.86 cft Bottom-Bed 1 x 0.785 x 40.00 x 40.00 x 0.33 414.48 cft TOTAL. 731.34 cft. 731.34 Cft @ Rs. 14429/25 P%Sft. Rs. 105526/-

3. Water Proofing layer over the domical or flat slab of the HSR in 2 coasts of bitumen laid using 34 lbs % Sft. per % (PHSI No. 2 Page 55)

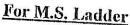
C.W.T Slab $1 \times 0.785 \times 44.0 \times 44.0 = 1519.76 \text{ sft.}$

1519.76 Sft (2) Rs. 2208/ P%Sft.

Rs. 33556/-

C/o Rs. 1958991.

4. Providing and fixing C.C. foundation (1:3:6) M.S. Ladder M.S. Single iron 2" x 2" x 1/4" and part M.S. bar 3/4" dia spaced 1.0 part painting 3 coats with anticorrosive steel paint etc. complete (PHSI No. 3 Page No.55)



$$2 \times 15.00 = 30.00 \text{ Rft.}$$

$$30.00 \text{ Rft.}$$

$$0 \text{ Rs. 799/-} \text{ P.rft.}$$

$$Rs. 23970/-$$

5. Providing C.I. Manhole cover with frame i/c cost of material etc. complete. (PHSI No. 14 Page No.13).

$$1 \times 4 = 4 \text{ d} 30.00 \text{ Kg.} = \frac{120 \text{ Kg.}}{50.08} = 2.396 \text{ cwt.}$$
 $\frac{6985}{50.08}$

P.cwt.

TOTAL $\frac{\text{Rs. } 49346}{\text{Rs. } 229493/=}$

artage of 100 Cft/5 tons of all material library.

6. Cartage of 100 Cft/5 tons of all material like stone aggregate, spawl, coal, lime, surkhi etc. B.G Rail fastenings points and crossing bridges Guarder pipe sheets rails, M.S. Bars etc. or 1000 Nos. bricks 10" x 5" x 3" or 1000 Nos. 12" x 6" x 2" or 15 Cft. or Trunks of any other means owned by the contractors (GSI No.

i) Bairi: from Crushor to the second state of the state of

i) Bajri: from Crusher to site of work (lead upto 37 miles)

2041/80

2041/80

213149(

Rs.-1781/32 P%Cft. Rs.+1472/
ii) Sand from Ghagghar to site of work (lead upto 16 miles)

425.0

706/84

Cty 389.0-Cft. @ Rs. 1097/56

P%Cft. Rs.4270/-

iii) Cement from cement factory. (Lead upto 29 Miles).

96.0 37/53 Qty 138.0-Bags. @ Rs. 23/73 P.J

P.Bag

= 54791-Rs.32751

Total

Rs.248510/ = 258337/

ASSISTANT ENGINEER PUBLIC HEALTH ENGINEERING SUB-DIVN :II <u>KARACHI</u>

EXECUTIVE ENGINEER
PUBLIC HEALTH ENGINEERING
DIVISION KARACHI

MATERIAL STATEMENT

FOR CLEAR WATER TANK

SR	ITEM OF WORK	QTY	BAJRI	HILL	CEMENT	STEEL
$\overline{1}$	C.C. Plain 1:4:8	2010 4		SAND	3	
	TOTAL CONTROL OF THE PROPERTY	3019.46	2898.68	1449.34	289.86	
	R.C.C. Work 1:2:4	-7706.2(r	6781.45	3390.72	1348.58	
	Cement Plaster 3/2," thick 1:4	2969.15 1884:		1 06.89	21.67 21.47	
	C.C. Plain 1:2:4	594.00 731 · 34	522.72 643.57	261.36 321 · 78	100.98	
	Fabrication	447.72	-		124.32	-447.72
		TOTAL	10202.85	-5208.31	-1761.09>	447.72
		SAY	10203.00-	5208.00	1761.00	448.00-
	a w see a		643.57	635 11-	1115 55	

644.0 425.40 145.79

Assistant Engineer Public Health Engineering S/Div-II District Karachi

DETAILED WORKING ESTIMATE FOR REPAIR OF CIVIL WORK FOR RURAL WATER SUPPLY SCHEME, PIR SARHANDI GOTH, UC DARSANO CHHANO DISTRICT KARACHI(O/M)

PART-C REPAIR OF COMPOUND WALL / STAFF QUARTE R& PUMP HOUSE

 Excavation in foundation building bridges and other structure including leveling dressing refilling around the structure with excavated earth ramming lead upto 5' in ordinary soil (G.S. Item No. 18.b Page No. 4).

In ordinary Soil Size of C/Wall $1 \times 100(+) 30 (+) 20.0 = 150.0 \text{ Cft.}$ $150.0 \times 2.0 \times 2.50 = 2382.00$

750 · • Qty 2382.0 Cft. @ Rs. 3176/25 P%oCft. Rs. 2382/-

2. Cement concrete brick or stone ballast 1 ½ to 2" gauge Ratio (1:4:8) (G.S. Item No. 4 (b) P. No. 14).

Wall 1 x 150 x 2.0 x 0.50 150.00 Cft. 1 x 80.0 x 10.00 x 0.33 For Path 264.00 Cft. 1 x 20.0 x 10.0 x 0.33 Gate Pillars 66.0 Cft. Total = 330.0-Cft. 480.0 Qty 330-0-Cft. @ Rs. 9416/28 P%Cft. Rs.31074/-

3. Erection and removal of centering RCC or plain cement concrete work of Deodar wood 2nd class (vertical) (G.S. Item No. 19/b (ii) P.No. 47)₁₉

Wall $2 \times 150.0 \times 3.0 = 900.0 \text{ Sft.}$

Qty 900.0 Sft. @ Rs. 3127/41 P%Sft. Rs.28147/-

cfo Re. 75727/-

 Cement concrete plain i/c placing compacting finishing and curing complete i/c screening & washing of stone aggregate w/o shuttering (G.S. Item No. 5 (a) P.15)

Ratio 1:3:6.

Wall

1x 150 x 1.0 x 3.0

450.0 Cft.

Qty 450.0 Cft.

@ Rs. 12595/-

P%Cftt.

Rs.56678/-

 Providing laying (1:3:6) cement concrete solid block masonry wall above 6" thickness set in (1:6) cement mortar in ground floor super structure i/c sacking out joints & curing etc. complete (G.S. Item No. 23 P. No. 18).

Wall

1 x 150 x 0.50 x 4.50

338.00 Cft.

Extra Pillars

 $25 \times 0.50 \times 0.50 \times 4.50 =$

28.00 Cft.

SIG & KIEW

Total =

366.00 Cft.

Qty 366.00 Cft.

@ Rs. 15771/01 P%Cft.

Rs. 57722/-

6. Cement plaster (1:4) upto 20' height ½" thick (G.S. Item No. 11 (b) Page No. 51)

Plinth for wall

2 x 150 x 4.50-

300.0

For wall

2 x 150 x 4.50 x 1350.00 =

1350.00 Sft.

Top

1 x 150 x 0.50

75.00 Sft.

For S.Q. Plinth

2 x (19.50 + 11.50) x 1.50=

93.00 sft.

For P.House Plinth 2 x (15+13.0) x 1.50

84.00

Total

2052.00 Sft.

1902.0

Qty 2052.00-Sft. @ Rs. 2283/93

P%Sft.

=43440/ -Rs :46,866/-

90 Ps. 233567/-

7. Providing & Laying thick topping C.C. (1:2:4) including surface finding and dividing into panel (GSI No. 16 Page 41)

2" thick. 195.0 Staff Quarter 1 x 15.0 x 9.0 = On Slab over Room = -195.00On Slab over Verandah= 1 x 15.0 x 13.0= Pump House= Roof 1 x 15.0 x 13.0= 195.00 525.00 sft. P%Sft. Rs . 17,196/-Qty 525.00 Sft. @ Rs. 3275/50 8. Prime Coat of Chalk distemper (GSI No. 23 P/53) 2 x 150.0 x 4.50 1350.00 sft. For Compound wall= TOP $1 \times 150.0 \times 0.50$ 75.00 sft. Staff Quarter 2 x (12+10) x <u>10.50+10.0</u>= 451.00 sft. Room inside $2 \times (12 + 6) \times 8.50 + 8.00 =$ 297.00 sft. Verandah 140.00 sft. 1 x 14.0 x 10.00 Room O/S 115.50 -246.00 sft. Verandah O/S 1 x 14.00 x 8.00 112.00 sft. Verandah front side= Pump House 2 x (12 + 10) x <u>10.5+10.0</u>= 451.00 sft. Inside 2 x (13.5 + 11.5)x <u>10.5 +10</u>= Outside Deduction 104.00 sft. 2 x 8.0 x 6.50 Verandah opening= 91.00 sft. $2 \times 2 \times 3.50 \times 6.50$ Door 120.00 sft. 2 x 5.00 x 3.00 x 4.00 Window 315.00-sft. 3189.50 3504.50 315.00 4336-00-sft. Net Qty 3751.00-(-) = 141241 P%Sft. @ Rs. 442/75 Qty 4336.00 Sft.

3190.0

	lbesing 38 (a) P-S	s)
9. Distempering Three coat (G, S	No. 24 (c) P/53).	
Same Qty of Chal	3/07/10	
3/90.	2/21-	- 423711-
Qty 4336:00 Sft. @ Rs. 1079	7/65 P%Sft.	- 4237//- Rs . 46,814/-
10 Pointing ald and		
10. Painting old surface, painting Page No. 67)68 2 Coat	door & window any	ype (GSI No. 4 (c)
Door 2 x 2 x 3.50 x 6.50	- 04.00	
	01.00 011.	
Window 2 x 5.0 x 3.0 x 4.00	120.00 31	
IOIAI	L 211.00 sf	
211.00 Sft. @ Rs 1160/		
211.00 Sft. @ Rs. 1160/0	06 P%Sft.	Rs. 2448/- = 309706/ -
	Total	Rs. 308525/-
11. Cartage 100 Cft/ 5 Tons of all coal, lime, surkhi etc. B.G. Rail Girders, pipes, sheets Rails, M.S x 3" or 1000 Nos. tiles, HYPER Of Timber or 100 mounds of feowned by the contractors (G.S. In	tastenings points and S. Bars etc. or 1000 No LINK "mailto: 12@ x (Bul wood by truck or	crossing bridges, os. bricks, 10" x 5" " x 2" or 150 Cft.
	committee in add IND.	diff office means
). ~/,
i) Stone ballast: from Gizri to	site of work (lead upto	≲9 9 35 miles)
i) Stone ballast: from Gizri to	site of work (lead upto). ~/,
i) Stone ballast: from Gizri to 46/ >334/ Qty 317.0-Cft. @ Rs. 1716/20	site of work (lead upto / 8 9)- P%Cft.	
i) Stone ballast: from Gizri to 46/ >334/ Qty 317.0-Cft. @ Rs. 1716/20 ii) Bajri: from Crusher to site of	site of work (lead upto / _{8 9})- P%Cft. 45 f work (lead upto 37 r	
i) Stone ballast: from Gizri to 46/ >334/Qty 317.0-Cft. @ Rs. 1716/20 ii) Bajri: from Crusher to site of 220 > 204/8	site of work (lead upto / _{8 9})- P%Cft. f work (lead upto 37 r	1. S4 35 miles) = (0764/ - Rs:5440/- niles) = (6906/ -
i) Stone ballast: from Gizri to 46/ >334/ Qty 317.0-Cft. @ Rs. 1716/20 ii) Bajri: from Crusher to site of 228 > 204/8	site of work (lead upto / _{8 9})- P%Cft. f work (lead upto 37 r	
i) Stone ballast: from Gizri to 46/ >334/Qty 317.0-Cft. @ Rs. 1716/20 ii) Bajri: from Crusher to site of 204/8 Qty 813.0-Cft. @ Rs. 1781/32	site of work (lead upto / 8 4)- P%Cft. f work (lead upto 37 r	1. 54 2.35 miles) = (0764/ Rs:5440/- niles) = (6906/ Rs.7 035/
i) Stone ballast: from Gizri to 46/ >334/Qty 317.0-Cft. @ Rs. 4716/20 ii) Bajri: from Crusher to site of 228	site of work (lead upto / 8 4) P%Cft. f work (lead upto 37 r P%Cft. of work (lead upto 16	1. 54 2.35 miles) = (0764) - Rs:5440/- niles) = (6906) - Rs.7035/- miles)
i) Stone ballast: from Gizri to 46/ >334/ Qty 317.0-Cft. @ Rs. 1716/20 ii) Bajri: from Crusher to site of 220 904/60 Qty 813.0-Cft. @ Rs. 1781/32 iii) Sand from Ghagghar to site	site of work (lead upto / 8 4)- P%Cft. f work (lead upto 37 r - P%Cft. of work (lead upto 46	Sy 35 miles) = (0764) - Rs:5440/- niles) = (6906) - Rs.7035/- miles) = 5033/- Rs:7035/-
i) Stone ballast: from Gizri to 46/ >334/Qty 317.0-Cft. @ Rs. 4716/20 ii) Bajri: from Crusher to site of 228	site of work (lead upto / 8 4)- P%Cft. f work (lead upto 37 r - P%Cft. of work (lead upto 46	Sy 35 miles) = (0764) - Rs:5440/- niles) = (6906) - Rs.7035/- miles) = 5033/- Rs:7035/-
i) Stone ballast: from Gizri to 46/ >334/Qty 317.0-Cft. @ Rs. 4716/20 ii) Bajri: from Crusher to site of 228	site of work (lead upto / 8 4)- P%Cft. f work (lead upto 37 r - P%Cft. of work (lead upto 46	1. 54 35 miles) = (0764/- Rs:5440/- niles) = (6906/- Rs.7035/- miles) = \$033/-

Cement from cement factory. (Lead upto 29-Miles). iv) 7/53 Qty 169:0 Bags. @ Rs. 23/73

P.Bag

Rs:4010/-

Total

Rs.339492/-- 349277/-

ASSISTANTI ENGINEER
PUBLIC HEALTH ENGINEERING SUB-DIVN:II
KARACHI

EDECUTIVE ENGINEER
PUBLIC HEALTH ENGINEERING
LIVISION KARACHI

MATERIAL STATEMENT

S#	ITEM OF WORK	QTY.	STONE BALLAST	BAJRI	HILL SAND	CEMENT	STEEL
	C.C. Brick or stone ballast 1:4:8	-330.00- 480	-317.00- 46/ ·		-158.00 230.	-32.00 46	
2	C.C. Plain 1:3:6	450.00		414.00	207.00	59.00	
3	Block Masonry 1:3:6	366.00		322.00 337 °	-163.00 168 - 0	47.00 48 • •	
4	Cement Plaster 1/2" thick 1:4	-2052.00 1902 · o			74.00 68 · o	15.00	
5	2" thick topping	525.00		77.00	39.00	16.00	
	TOTAL		-317.00- 96/	-813.00- හිදුහි	641.00-	. 169:00-	
	SAY	per nes	317.00- 46/·0	813.00 828	641.00 ルン・	169.00 /83 · °	

Assistant Engineer
Public Health Engg/Sub-Divn: No.ll
District Karach

GOVERNMENT OF SINDH PUBLIC HEALTH ENGINEERING DEPARTMENT DISTRICT KARACHI

FUND HEAD

PROVINCIAL

MAJOR HEAD

MAJOR HEAD

Rural Drainage Scheme Khamiso Goth (O/M)

SERVICE HEAD

Detailed Working Estimate for Repair of Manholes, Replacement of sewer line & cleaning of Manholes & sewer line for Rural Drainage Scheme Khamiso Goth (O/M).

Estimate has been framed in the office of the Executive Engineer Public Health Engineering Division Karachi for the Probable Expenditure that will be incurred for Repair of Manholes, Replacement of sewer line & cleaning of Manholes & sewer line for Rural Drainage Scheme Khamiso Goth (O/M).

ESTIMATE COST Rs. 8,27,730/-/

GENERAL DESCRIPTION

- 1: This Estimate for Repair of Manholes, Replacement of sewer line & cleaning of Manholes & sewer line for Rural Drainage Scheme Khamiso Goth (O/M).
- 2. Rates have been provided of General Schedule and Public Health Schedule of Rates.
- 3. The work will be carried out as per P.W.D specification.
- 4. Funds are available.

ASSISTANT ENGINEER PUBLIC HEALTH ENGG:S/DIVN.II KARACHI

DETAILED WORKING ESTIMATE FOR REPAIR OF MAN HOLES, REPLACEMENT OF SEWER LINE & CLEANING OF MANHOLES & SEWER LINE FOR RURAL DRAINAGE SCHEME KHAMISO GOTH (O/M).

GENERAL ABSTRCT OF COST

1. REPAIR OF MANHOLES.

147461/_ Rs. -1,20,601/-

2. REPLACEMENT OF SEWER LINE

- 650280/
- 3. CLEANING OF SEWER & MANHOLES

Rs. 88,717/- (

TOTAL

Executive Engineer Public Health Engineering

Division Karachi

Assistant Engineer Public Health Engg:S/Division No.II District Karachi

> SUPERINTENDING ENGINEER Public Health Engg; Circle Hyderabade

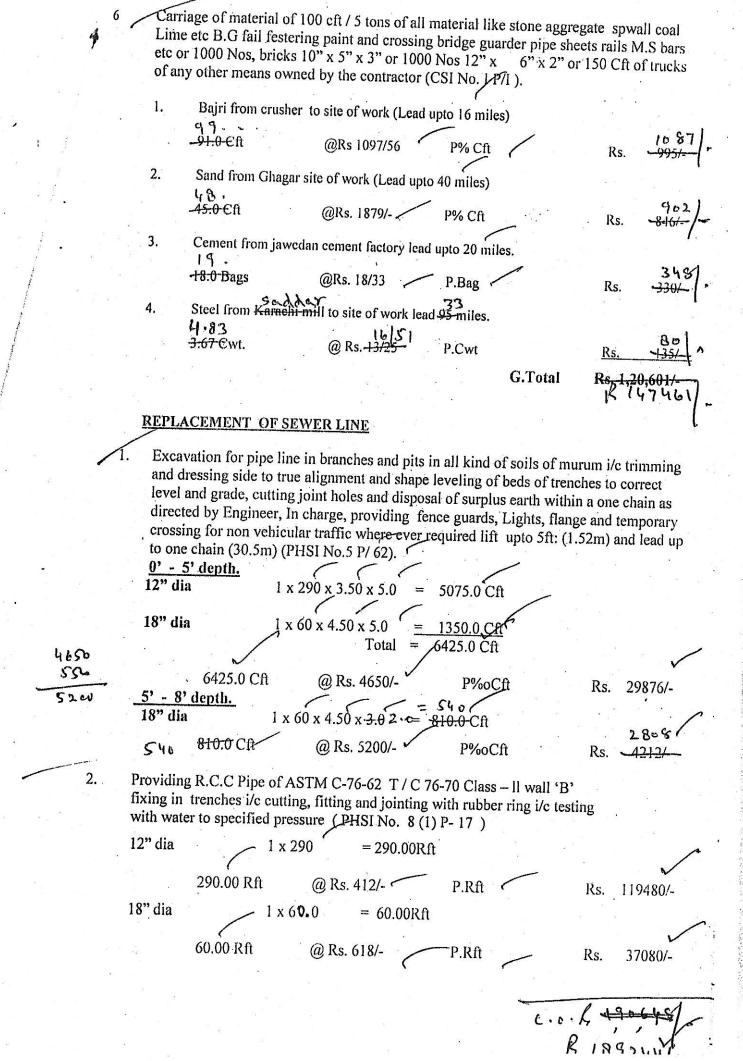
TECHNICAL SANCTIONED For Plat. 8 & Society

CHIEF ENGINEER.
PUBLIC HEALTH ENGG. DEPTT.
COOVERNMENT OF SINDH, HYDERABAD

DETAILED WORKING ESTIMATE FOR REPAIR OF MAN HOLES, REPLACEMENT OF SEWER LINE & CLEANING OF MANHOLES & SEWER LINE FOR RURAL DRAINAGE SCHEME KHAMISO GOTH (O/M).

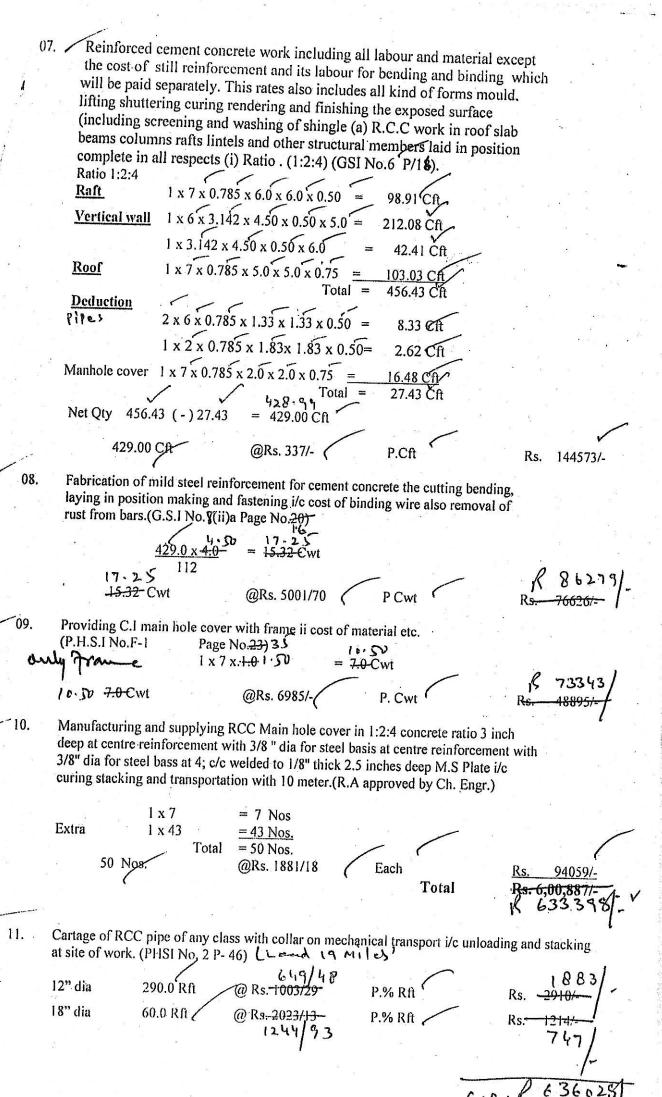
REPAIR OF MANHOLES

1.	Dismentalling	cement concret	a rainforced					
	From concrete	cleaning and st	e felliforced raightaning (separating re	inforcem	ent-		
	- 10.11 401101010							
	M.Hole	1 x 7 x 0.785 x 4	0 1 2 5 1 1 0	1350 075	/			
4	Roch	/ X 0.765 X 4	2 x 4.0	7 3.30 X 0.73	= 57	6.95 Cft		
	57.95 Cff							ĸ
				P.%Cft		Rs.	3155/-	(84)
$\sqrt{2}$.	Reinforced cen	nent concrete w	ork including	all labour a	nd materi	al excent	·	
9 1 2	the cost of stil	l reinforcement	and its labo	ur for bendin	g and hin	ding wh	ich	
	will be paid ser	parately. This ra	tes also incli	ides all kind	of forms	mould	ICII	
	lifting shutterin	g curing render	ing and finis	hing the exp	osed surfa	ice		
	(including scree	ening and washi	ing of shingle	e (a) R.C.C v	vork in ro	of slab		
2.10	beams columns	rafts lintels and	other struct	ural member	s laid in r	osition	- 100 A	
	complete in all	respects (i) Rati	o . (1:2:4) (0	GSI No.6 P/	1 6).			
	Ratio 1:2:4			10	'/	5 "	100	
	Roof slab	$x 7 \times 0.785 \times 5$	$0 \times 5.0 \times 0.75$	= 103.0	3 Cft		199	
33								
	103.03 Ç	A @Rs. 337	11-	P.Cft		Rs.	34721/-	
		T	2					
3.	Fabrication of mi	ld steel reinforce	ment for ceme	ent concrete th	ne cutting l	pending,		
	laying in position	making and faste	ening i/c cost	of binding wi	re also ren	noval of		:= 26
	rust from bars.(G.	_	5 ag 15 ag 1		8 6		E IE SH	
		$03.03 \times 4.0 =$	4.13					
- a		112	2.07 0111			# ₅ =		2003
	4.13						206571	
	-3.67 Cwt	@Rs. 500	1/70	P Cwt	4	Rs.	18356/-	, ,
		W 5	E			a 8 2 0	1	
4.	Manufacturing and	d supplying of 2	型 RCC Man	hole cover cas	st in 1:2:4			
	Concrete Ratio 3"	deep at center, re	emforced with	1 ½" dia tor st	eel bar at	99		2
- ° °	4" centre to centre	ar including com	tnick 2" Wide	M.S plate tw	o hook of			1900
5 12 5	3/8" dia tor steel b 10 miles, (PHSI, N	io 1 P- 30) (R-A	pacing i/c cu	ring and trans	portation v	within		3.0
	Hyd. D t. 24/2/20 1	6-for R/D/S Haii	Giil Hassan-G	Getha C R . A	· A Bose	10 n		
	schdule			· · · · · · · · · · · · · · · · · · ·				
	24" dia 1 :	x7 = 71	Vos.	50 SEE SEES	8			
, T			5 2 5				· · · · · · · · ·	<u>E</u>]
	7 Nos.	@ Rs. 188	1/18	Each /		Rs.	13168/-	18"
5. P	Americalism of C. I	1. 1	٥		8			
	Providing C.I main P.H.S.I No.J-1 Pa		frame ii cost	of material etc	.		8 %	20
			2.01= 05	ט		82		1000
out	y France / Ken	1 x 7 x = 1 : 0	= 7.0 €	₩t		0		
7 8 8	1 1 700 1	OD (000				15	73343/	7.8.5
	y France/Ren 7.00 WI	0 Rs. 6985	· / 1	. Cwt		Rs. —	48895/-	
20	سو س			e u Santa	Tr. e r	n. • • •	1401	-
8.,					Total	Rs1,15	516U/ 1	
				a 15		KIY	5017/	
		·	100		27 (96)		1	



```
Refilling the excavated stuff in trenches 6" thick laters i/c watering ramming to full
         Compaction.(PHSI No. 24 P/77).
                Qty. of Item No. 1 = 6425.0 + 810.0 = 7235.0 Cft
                                      7235.0 x 90
                                                      = 6511.50 \, \text{Cft}
                6511.50 Cft
                                        @ Rs.2760/-
                                                               P%o Cft
                                                                                       Rs.
                                                                                              17972/-
          Excavation in foundation of building bridges and other structures including dag belling
          dressing refilling around structure with excavated earth watering and ramming lead up
          to 5ft: (C) in ordinary soil (GSI No. 18 C Page No.4).
          0' - 5' depth
                989.10 Cft
                                                                                      Rs.
                                                                                              3516/-
                               1 \times 6 \times 0.785 \times 6.0 \times 6.0 \times 1.0 = 197.8
                                   1. X 0.785X6.0X 600 X2. V=
                                   @ Rs. 3655/16
                197.82 Cft
                                                          P%oCft.
                                                                                     Rs:
       Rehandling of earth work upto single throw
5:
                                                           phaorah (GSI no.9 P/2)
                                                  226.68 = 1215. 18
                                      = 989.10 + 197.82 = 1186.92 \text{ Cft}
          Qty. same item No. 4
                              7 x 3.14 x 5.50 x 0.50 x 5.6 =302,22
               -1186.92 Cft
                                  @Rs. 1058/7
   913. v 20169
     Cement concrete plain including placing compacting finish and curring complete
      i/c screening & washing of stone aggregate without shuttering (GSI No. 18 P/5 ).
      Ratio 1:4:8
                              1 \times 7 \times 0.785 \times 6.0 \times 6.0 \times 0.5 = 98.91 \text{ Cft}
      Manhole bed
                            @Rs. 11288/75 / P% Cft
                                                                                    Rs.
                                                                                            11166/-
    (b) For C.C Ratio (1: 2:4)
                     1 \times 6 \times 0.785 \times 4.0 \times 4.0 \times 1.33 =
      12" dia
                                                           100.22 Cft
                     1 \times 0.785 \times 4.0 \times 4.0 \times 1.83
                                             Total
  <u>Deduction</u>
12 15" dia
                     \pm x 0.785 x 6 x 4.0 x 1.33 x 1.33 =
18 12" dia
                     1 x 0.785 x 4.0 x 1.83 x 1.83
                                            Total
                                                             43.83 Cft
             123.20 ( - ) 43.83
                                       = 79.37 \, \text{Cft.}
                 79.37 Cft
                                    @ Rs. 14429/25
                                                            P% Cft
                                                                                   Rs.
                                                                                          11452/-
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R 235144)



	Lime etc B.G fail festering pa	t/5 tons of all n	naterial like stone aggre	agato amount
j	Lime etc B.G fail festering pa etc or 1000 Nos, bricks 10" x	int and crossing	bridge guarder nine ch	gate spwall coal
				" 150 CC C
	of any other means owned by	the contractor (CSI No I P/I)	r 130 Cit of trucks
8 -	The second secon			
r	2. Bajri from crusher to site	e of work (Lead u	into 16 miles)	5 ×
	727	Work (Bolla ti	— ipto to filles)	
	-542.0 Cft @	Rs 1097/56	P% Cft	6377
	581,		an 15	Rs5949//
	2. Sand from Ghagar site of	work (Lead upto	40 miles)	
	214.	n 17 18 902		
	-271.0 Cft @i	Rs. 1879/-	P% Cft	5 4 4 a
				Rs. 5092/-
	3. Cement from jawedan cer	nent factory lead	upto 20 miles	
	44 ·		-	101.5/
	-98.0 Bags @F	Rs. 18/33	P.Bag	Rs. 1796/-
			32	NS. 17707-
9, 8	5. Steel from Karachi mill to	site of work lead	95 miles.	
	7) 6) -1 7-1	121 TH 1227		Lanl
	- 15.32 -Cwt. @	Rs. 13/25	P.Cwt	Rs. 483
			G.Total	Rs. 6,18,410/
	CLEANING OF SEWER & M	EABITION NO		15 650280
	SECTION OF SEWER & W	IANHOLES		1
				-
1	Classicaldesities	ē	2 8	, a 2 % a
	Cleaning/desilting of Manhole insp	ection chamber i/	c cleaning and Roding of	connected
		moving sewage a	and solid wastes and throu	ving outside KMC
	limits. (GSI.No. 96 P-109)		***	
	Manholes 1 x 19	- 10 M		
	1 1 1 9	= 19 Nos		
	19 Nos. @F	Rs. 474/83		
		vs. 4/4/83	Each	Rs. 9022/-
2.	Cleaning inside sewerage line on	paplotale		
	Cleaning inside sewerage line con	inpletely restorii	ng original silt free space	e/ diameter
	or processing by suboth and chilling	ieni mechanicali	/ Alpotrionly duine :/-	
	Party seed tope offered & size in	m or to IX" dia	there to and for molt	
	are the micr caused of emillions	THE W SCCECCATION	C Of Obovio sure alses	1 1 1 1 1 1
	work with change with inclinity (if	IIIII cet navina e	tool rong muller as a	The regression from the control of the
	The state of the s	Drottection like	cototy to lab 1 .1	Transport to the state of the s
	property of renigible of Still Solid	desilting & clea	rance of site etc comple	ete(SSI No. 5
	Page No. 31)			
7 8			· · ·	
	18" dia 1 x 400.0 = 400.0 Rft	@ Rs. 128/80	P.Rft	Rs. 51,520/-
				Ns. 31,320/- 1
	12" dia $1 \times 350.0 = 350.0 \text{ Rft}$	@ Rs. 80/50	P.Rft	D 20 154
		(S) 1(3, 00/30	I .KII	Rs. 28,175/-
			Total	Rs. 88,717/-
		7		· · · · · · · · · · · · · · · · · · ·
	MINNM			
	MAK.X	\$\frac{1}{2}		
	ASSISTANT ENGINEER		EVECTIONS BAC	TAIRINA
	LIC HEALTH ENGG:S/DIVN.II	Drir	EXECUTIVE ENG	
	KARACHI	rur	BLIC HEALTH ENG	J: DIVISION
			KADA/ III	- Care -

REPLACEMENT OF SEWER LINE

MATERIAL STATEMENT

S.no	ITEM	QTY	BAJRI	H/SAND	CEMENT	STEEL
1	CC plain 1:4:8	98.91	94.95	47.47	9.49	
2	CC plain 1:2:4	79.37	69.84	34.92	13.49	
3	RCC plain 1:2:4 m.H. Cover	429.0 V	377.52	188.76	75.50	17.2.32 15.32
	TOTAL		542.00	271.0 - 290,15	98:00	15.32

581.31

581 ASSISTANT ENGINEER
PUBLIC HEALTH ENGG: S/DIVN.II
KARACHI

REPAIR OF MANHOLES

MATERIAL STATEMENT

STEEL	CEMENT	H/SAND	BAJRI	QTY	ITEM	S.no
4.13 -3.67	18.0	45.00	90.66	103.03	RCC plain 1:2:4	1
-3.67 +++-3	18.07	45.00-	91.00- 98.66		TOTAL	
	18.07				TOTAL	

ASSISTANT ENGINEER
PUBLIC HEALTH ENGC:S/DIVN.II
KARACHI