



# SCHEDULE OF BID.



PUNJAB PUBLIC HEALTH ENGINEERING DEPARTMENT(SOUTH ZONE)

PUNJAB PUBLIC HEALTH ENGINEERING DIVISION-I, DERA GHAZI KHAN

NAME OF WORK:-

CONSTRUCTION OF DRAINAGE/SEWERAGE, SOLING, TUFF TILE AND CULVERTS IN BASTI NAHAR WALA, MONDAY WALA, ADJ. ABADIES AND LEFTOVER AREA OF UC, UC:AALI WALA, TEH; KOT CHUTTA, DISTT; D.G.KHAN.(CDP-III)

NAME OF CONTRACTOR/FIRM:-

APPROXIMATE COST

Rs. 06.542 million

EARNEST MONEY

Rs. 0.327 million

TIME LIMIT

Time Limit. 12 Months

Sr	Description of items	Quantity	Unit	Contractor Rate	
				in figures	in words
	<b>SURFACE DRAINS</b>				
1	Earthwork excavation in open cutting upto 5' - 0" (1.5m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50ft (15m) lead	2388.25	Cft	%0Cft @.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth (1:6:12)	768.75	Cft	%Cft @.Rs.	@.Rs.
3	Pacca brick work in foundation and plinth in cement sand mortar ratio (1:5)	1153.13	Cft	%Cft @.Rs.	@.Rs.
4	Pacca brick work on edge laid in reimbursement in cement sand mortar, on sides of drains, and on other work where required. All joints to be filled and struck flush ratio(1:5)	3075.00	Sft	%Sft @.Rs.	@.Rs.
5	Construction of punjab standard drains of cement concrete (1:2-1/2:5) with cement concrete bedding ratio (1:6:12) complete laid to lines,grades,slopes,and shapes,rendering exposedsurface of concrete with (1:1) cement sand mortar 1/4(6mm) thick as per Engineer's drawing (Excluding excavation)				
	Type - I	2050.00	Rft	P.Rft @.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, rendering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.:a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	19.00	Cft	P.Cft @.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastening, including cost of binding wire and labour charges for binding of steel reinforcement, (also includes removal of rust from bars)	57.40	Kg	%Kg	@.Rs.	@.Rs.
8	Fabrication of Heavy steel work with angles, tees, flat iron, round iron and steel iron for making strusses, griders, tanks etc. including cutting, drilling, reviting, handling essembling and fixing including errectioning position. (Gierder Cross on type-I drains).	741.33	Kg	%Kg	@.Rs.	@.Rs.
9	Cement cocnrete plain including palcing compacting finishing & curing complete including screening & washing of stone aggregates ratio 1:2:4	25.35	Cft	%Cft	@.Rs.	@.Rs.
<b>BRICK PAVEMENTS</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	39337.80	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	9714.00	Cft	%Cft	@.Rs.	@.Rs.
<b>CONSTRUCTION OF RCC CULVERTS</b>						
1	Excavation in foundation of building bridges sand other structures, including dressing refilling around structure eith excavated earth watering and remaining lead upto on chan and lift 5ft, lead an ordinary soil, complete in all respects	912.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth ratio 1:6:12 complete	228.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca Brick work in foundation and plinth ration (1:4) cement sand mortor complete in all respects	628.52	Cft	%Cft	@.Rs.	@.Rs.
4	Providing and laying cement concrete plain including placing compacting finishing and curing complete (including screening and washing stone aggregate) Ratio 1:2:4	32.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1/2" thick ratio 1:4 upto 20' height etc complete in all respect.	608.00	Sft	%Sft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, randering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.-a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	196.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position making joints and fastening including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) a).D-formed bars	1012.00	KG	%KG	@.Rs.	@.Rs.
8	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	2976	Cft	%OCft	@.Rs.	@.Rs.
9	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	407.68	Cft	%Cft	@.Rs.	@.Rs.
<b>SULLAGE CARRIER</b>						
1	Earth work excavation in open cutting upto 5ft depth for storm water channels drain sillage darin in open area, roads, streets, lands i/c under pinning of walls and shorting to protect existing works shuffling and tembring the trenches back filling and surplus excavated materials disposed off and dressed with 50 ft lead on ordinary soil etc complete in all respect.	5843.75	Cft	%OCft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" guage in foundation and plinth. (1:6:12)	584.38	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in cement sand mortar in foundation and plinth.(1:5)	1856.25	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete	140.25	Cft	%Cft	@.Rs.	@.Rs.
5	1/2" Cement plaster 1:4 upto 20' (6.00 m) height:-	3025.00	Sft	%Sft	@.Rs.	@.Rs.
6	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	4092.00	Cft	%OCft	@.Rs.	@.Rs.
<b>R.C.C SEWER</b>						
1	Dismantalling of brick on edge flooring with out concrete foundation	938.00	Sft	%Sft	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	3284.00	Cft	%OCft	@.Rs.	@.Rs.
3	Extra for slush or Daldal including dewatering(average depth=actual depth/2)	470.00	Cft	%OCft	@.Rs.	@.Rs.
4	Supplying and filling sand under floor; or plugging in wells,( laid under bed of sewer and around the sewer hanches etc complete as per PHED/PWD specifications).	301.00	Cft	%Cft	@.Rs.	@.Rs.

4	Providing and laying crush stone size 1/4" to 1" laid under bed & around the sewer as per standard specification of PHED/PWD etc complete in all respect.	157.00	Cft	P.Cft	@.Rs.	@.Rs.
5	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete 9" i/d (225mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete					
	12" i/d.(310mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete.( on;y labour rates for supply of pipe)					
	12" i/d.(310mm)	120.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	120.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	2627.00	Cft	%0Cft	@.Rs.	@.Rs.
8	Restoration of brick pavement/soling on laid service line with 2" sand cushion under soling etc complete in all respect.	938.00	Sft	%Sft	@.Rs.	@.Rs.
9	Making connection with existing manhole/sewer line etc complete in all respect.	2.00	No	Each	@.Rs.	@.Rs.
	<b>CONST OF MANHOLES CHAMBERS</b>					
1	Earthwork excavation in open cutting for sewers and timbering dressing to correct section and dimensions according to templates and levels, and removing surface water in all types of soil except shingle, gravel etc complete in all respect.0 ft to 7.0ft depth	310.09	Cft	%0Cft	@.Rs.	@.Rs.
	7.01 to 15 ft depth	44.30	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 50mm guage, in foundation and plinth 1:4:8	66.40	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work other than building upto 10ft height cement sand mortar Ratio 1:3, including extra for pacca brick work in steining of well and any other circular masonry etc complete.	205.80	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone	50.36	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1:2 upto 20' height 3/4" (20mm) thick	332.22	Sft	%Sft	@.Rs.	@.Rs.
6	Extra for making and finishing benching floor work manhole chamber, with 1/8" (3mm) thick cement finishing etc complete.	37.70	Sft	%Sft	@.Rs.	@.Rs.

7	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5mm) angle iron in manhole chamber, including carriage and setting the same in work to correct lines and levels complete in all respect.	24.00	No	Each	@.Rs.	@.Rs.
8	Providing and Fixing 6" thick RCC manhole cover with tee shaped C.I frame of 22" i/d (frame weighing 37.324 Kg) or one mould as per Standar Drawing STD / PD No 6, of 1977, complete in all respect.	3.00	No	Each	@.Rs.	@.Rs.
	<b>MAKING CONNECTION OF MANHOLES WITH EXISTING MANHOLE.</b>					
1	Desilting of existing manhole chamber and plugging the existing sewer line for duration of making connection with newly laid sewer line etc complete in all respect.	2.00	Job	P.Job	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	438.00	Cft	%0Cft	@.Rs.	@.Rs.
	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	188.00	Cft	%0Cft	@.Rs.	@.Rs.
4	Making hole in wall of manhole chamber for making connection of 12" dia sewer and making leakproof it after making connection with P.C.C. 1:2:4	2.00	Job	P.Job	@.Rs.	@.Rs.
5	Dry rammed brick or stone ballast, 1 1/2" to 2" (40 mm to 50 mm) gauge.	38.00	Cft	%Cft	@.Rs.	@.Rs.
6	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc., complete. 12" i/d.(310mm)	16.00	Rft	P.Rft		
7	Rehandling of earthwork lead upto Upto a lead of 50 ft. (15 m). Etc complete in all respect.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
8	Compaction of earthwork (soft, ordinary or hard soil),a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
9	Ramming earthwork (all types of soil).	500.80	Cft	%0Cft	@.Rs.	@.Rs.
	<b>CONST OF GULLY GRATINGS</b>					
1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	384.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Construction of gully grating chamber 12"x12" complete in all respects with C.I gully trap weighing 81lbs (36.75Kg) frame hinged safety type	2.00	No	Each	@.Rs.	@.Rs.

3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d (225mm)	32.00	Rft	P.Rft	@.Rs.	@.Rs.
4	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	307.20	Cft	%0Cft	@.Rs.	@.Rs.
<b>TUFF TILES</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	17066.62	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing and Laying sub base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub base material to required depth, camber, grade to achieve 100% maximum modified AASSHO dry density, including carriage of all material to site of work except gravel and aggregate. (i) Pit run or bed run gravel etc complete	3072.00	Cft	%Cft	@.Rs.	@.Rs.
3	Providing and laying Tuff pavers having 7000 PSI crushing strength of approved manufacturer over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect.(50% grey & 50% coloured) 60 mm thick	12287.00	Sft	P.Sft	@.Rs.	@.Rs.

**NOTE:-**

Omission/error if any may be referred to the technical sanctioned estimate.

SIGNATURE OF CONTRACTOR,  
(WITH FULL ADDRESS)

EXECUTIVE ENGINEER  
PHE, DIVISION-I.D.G.KHAN



# SCHEDULE OF BID.



PUNJAB PUBLIC HEALTH ENGINEERING DEPARTMENT(SOUTH ZONE)  
PUNJAB PUBLIC HEALTH ENGINEERING DIVISION-I, DERA GHAZI KHAN

NAME OF WORK:-

CONSTRUCTION OF DRAINAGE/SEWERAGE,  
SOLING, TUFF TILE AND CULVERTS IN BASTI  
DIN PUR, BASTI GUJAR WALA, ADJ. ABADIES  
AND LEFTOVER AREA OF UC:HAIDER QURESHI,  
TEH; KOT CHUTTA, DISTT; D.G.KHAN.(CDP-III)

NAME OF CONTRACTOR/FIRM:-

APPROXIMATE COST

Rs. 06.542 million

EARNEST MONEY

Rs. 0.327 million

TIME LIMIT

Time Limit. 12 Months

Sr · N	Description of items	Quantity		Unit	Contractor Rate	
					in figures	in words
	<b>SURFACE DRAINS</b>					
1	Earthwork excavation in open cutting upto 5' - 0" (1.5m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50ft (15m) lead	2446.50	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth (1:6:12)	787.50	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in foundation and plinth in cement sand mortar ratio (1:5)	1181.25	Cft	%Cft	@.Rs.	@.Rs.
4	Pacca brick work on edge laid in reimbursement in cement sand mortar, on sides of drains, and on other work where required. All joints to be filled and struck flush ratio(1:5)	3150.00	Sft	%Sft	@.Rs.	@.Rs.
5	Construction of punjab standard drains of cement concrete (1:2-1/2:5) with cement concrete bedding ratio (1:6:12) complete laid to lines,grades,slopes,and shapes,rendering exposed surface of concrete with (1:1) cement sand mortar 1/4(6mm) thick as per Engineer's drawing (Excluding excavation)					
	Type - I	2100.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-(a) reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C (nominal mix 1:2:4)	19.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastening, including cost of binding wire and labour charges for binding of steel reinforcement, (also includes removal of rust from bars)	57.40	Kg	%Kg	@.Rs.	@.Rs.
8	Fabrication of Heavy steel work with angles, tees, flat iron, round iron and steel iron for making strusses, griders, tanks etc. including cutting, drilling, reviting, handling essembling and fixing including errectioning position. (Gierder Cross on type-I drains).	741.33	Kg	%Kg	@.Rs.	@.Rs.
9	Cement cocnrete plain including palcing compacting finishing & curing complete including screening & washing of stone aggregates ratio 1:2:4	25.35	Cft	%Cft	@.Rs.	@.Rs.
<b>BRICK PAVEMENTS</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	37209.32	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	9173.00	Cft	%Cft	@.Rs.	@.Rs.
<b>CONSTRUCTION OF RCC CULVERTS</b>						
1	Excavation in foundation of building bridges sand other structures, including dressing refilling around structure eith excavated earth watering and remaining lead upto on chan and lift 5ft, lead an ordinary soil, complete in all respects	1140.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth ratio 1:6:12 complete	285.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca Brick work in foundation and plinth ration (1:4) cement sand mortor complete in all respects	785.65	Cft	%Cft	@.Rs.	@.Rs.
4	Providing and laying cement concrete plain including placing compacting finishing and curing complete (including screening and washing stone aggregate) Ratio 1:2:4	40.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1/2" thick ratio 1:4 upto 20' height etc complete in all respect.	760.00	Sft	%Sft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, randering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.:a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	245.00	Cft	P.Cft	@.Rs.	@.Rs.



7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position making joints and fastening including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) a).D-formed bars	1265.00	KG	%KG	@.Rs.	@.Rs.
8	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	3720.00	Cft	%0Cft	@.Rs.	@.Rs.
9	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	509.60	Cft	%Cft	@.Rs.	@.Rs.
<b>SULLAGE CARRIER</b>						
1	Earth work excavation in open cutting upto 5ft depth for storm water channels drain sullage darin in open area, roads, streets, lands i/c under pinning of walls and shorting to protect existing works shufting and tembring the trenches back filling and surplus excavated materials disposed offand dressed with 50 ft lead on ordanary soil etc complete in all respect.	5843.75	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" guage in foundation and plinth. (1:6:12)	584.38	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in cement sand mortar in foundation and plinth.(1:5)	1856.25	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete	140.25	Cft	%Cft	@.Rs.	@.Rs.
5	1/2" Cement plaster 1:4 upto 20' (6.00 m) height:-	3025.00	Sft	%Sft	@.Rs.	@.Rs.
6	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	4092.00	Cft	%0Cft	@.Rs.	@.Rs.
<b>R.C.C SEWER</b>						
1	Dismantalling of brick on edge flooring with out concrete foundation	938.00	Sft	%Sft	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-'i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	3284.00	Cft	%oCft	@.Rs.	@.Rs.
3	Extra for slush or Daldal including dewatering(average depth=actual depth/2)	470.00	Cft	%oCft	@.Rs.	@.Rs.
4	Supplying and filling sand under floor; or plugging in wells,( laid under bed of sewer and around the sewer hanches etc complete as per PHED/PWD specifications).	2012.00	Cft	%Cft	@.Rs.	@.Rs.

4	Providing and laying crush stone size 1/4" to 1" laid under bed & around the sewer as per standard specification of PHED/PWD etc complete in all respect.	157.00	Cft	P.Cft	@.Rs.	@.Rs.
5	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete 9" i/d (225mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
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	12" i/d.(310mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete.( on;y labour rates for supply of pipe)					
	12" i/d.(310mm)	96.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	96.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	2627.00	Cft	%0Cft	@.Rs.	@.Rs.
8	Restoration of brick pavement/soling on laid service line with 2" sand cushion under soling etc complete in all respect.	938.00	Sft	%Sft	@.Rs.	@.Rs.
9	Making connection with existing manhole/sewer line etc complete in all respect.	2.00	No	Each	@.Rs.	@.Rs.
<b>CONST OF MANHOLES CHAMBERS</b>						
1	Earthwork excavation in open cutting for sewers and timbering dressing to correct section and dimensions according to templates and levels, and removing surface water in all types of soil except shingle, gravel etc complete in all respect.0 ft to 7.0ft depth	310.09	Cft	%0Cft	@.Rs.	@.Rs.
	7.01 to 15 ft depth	44.30	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 50mm gauge, in foundation and plinth 1:4:8	66.40	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work other than building upto 10ft height cement sand mortar Ratio 1:3, including extra for pacca brick work in steining of well and any other circular masonry etc complete.	205.80	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone	50.36	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1:2 upto 20' height 3/4" (20mm) thick	332.22	Sft	%Sft	@.Rs.	@.Rs.
6	Extra for making and finishing benching floor work manhole chamber, with 1/8" (3mm) thick cement finishing etc complete.	37.70	Sft	%Sft	@.Rs.	@.Rs.

7	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5mm) angle iron in manhole chamber, including carriage and setting the same in work to correct lines and levels complete in all respect.	24.00	No	Each	@.Rs.	@.Rs.
8	Providing and Fixing 6" thick RCC manhole cover with tee shaped C.I frame of 22" i/d (frame weighing 37.324 Kg) or one mould as per Standar Drawing STD / PD No 6, of 1977, complete in all respect.	3.00	No	Each	@.Rs.	@.Rs.
	<b>MAKING CONNECTION OF MANHOLES WITH EXISTING MANHOLE.</b>					
1	Desilting of existing manhole chamber and plugging the existing sewer line for duration of making connection with newly laid sewer line etc complete in all respect.	2.00	Job	P.Job	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	438.00	Cft	%0Cft	@.Rs.	@.Rs.
	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	188.00	Cft	%0Cft	@.Rs.	@.Rs.
4	Making hole in wall of manhole chamber for making connection of 12" dia sewer and making leakproof it after making connection with P.C.C. 1:2:4	2.00	Job	P.Job	@.Rs.	@.Rs.
5	Dry rammed brick or stone ballast, 1 1/2" to 2"( 40 mm to 50 mm) gauge.	38.00	Cft	%Cft	@.Rs.	@.Rs.
6	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc., complete. 12" i/d.(310mm)	16.00	Rft	P.Rft		
7	Rehandling of earthwork lead upto Upto a lead of 50 ft. (15 m). Etc complete in all respect.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
8	Compaction of earthwork (soft, ordinary or hard soil),a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
9	Ramming earthwork (all types of soil).	500.80	Cft	%0Cft	@.Rs.	@.Rs.
	<b>CONST OF GULLY GRATINGS</b>					
1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	384.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Construction of gully grating chamber 12"x12" complete in all respects with C.I gully trap weighing 81lbs (36.75Kg) frame hinged safety type	2.00	No	Each	@.Rs.	@.Rs.

3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d (225mm)	32.00	Rft	P.Rft	@.Rs.	@.Rs.
4	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	307.20	Cft	%0Cft	@.Rs.	@.Rs.
<b>TUFF TILES</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	16903.94	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing and Laying sub base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub base material to required depth, camber, grade to achieve 100% maximum modified AASSHO dry density, including carriage of all material to site of work except gravel and aggregate. (i) Pit run or bed run gravel etc complete	3040.00	Cft	%Cft	@.Rs.	@.Rs.
3	Providing and laying Tuff pavers having 7000 PSI crushing strength of approved manufacturer over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect.(50% grey & 50% coloured) 60 mm thick	12161.00	Sft	P.Sft	@.Rs.	@.Rs.

**NOTE:-**

Omission/error if any may be referred to the technical sanctioned estimate.

SIGNATURE OF CONTRACTOR,  
(WITH FULL ADDRESS)

EXECUTIVE ENGINEER  
PHE, DIVISION-I.D.G.KHAN



# SCHEDULE OF BID.



PUNJAB PUBLIC HEALTH ENGINEERING DEPARTMENT(SOUTH ZONE)  
PUNJAB PUBLIC HEALTH ENGINEERING DIVISION-I, DERA GHAZI KHAN

NAME OF WORK:-

CONSTRUCTION OF DRAINAGE/SEWERAGE,  
SOLING, TUFF TILE AND CULVERTS IN BASTI  
LAHORI WALA, BASTI DASTI, ADJ. ABADIES  
AND LEFTOVER AREA OF UC, GHAUS ABAD,  
TEH: KOT CHUTTA, DISTT: D.G. KHAN (CDP-III)

NAME OF CONTRACTOR/FIRM:-

APPROXIMATE COST

Rs. 06.542 million

EARNEST MONEY

Rs. 0.327 million

TIME LIMIT

Time Limit. 12 Months

Sr N	Description of items	Quantity		Unit	Contractor Rate	
					in figures	in words
	<b>SURFACE DRAINS</b>					
1	Earthwork excavation in open cutting upto 5' - 0" (1.5m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50ft (15m) lead	2621.25	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth (1:6:12)	843.75	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in foundation and plinth in cement sand mortar ratio (1:5)	1265.63	Cft	%Cft	@.Rs.	@.Rs.
4	Pacca brick work on edge laid in reimbursement in cement sand mortar, on sides of drains, and on other work where required. All joints to be filled and struck flush ratio(1:5)	3375.00	Sft	%Sft	@.Rs.	@.Rs.
5	Construction of punjab standard drains of cement concrete (1:2-1/2:5) with cement concrete bedding ratio (1:6:12) complete laid to lines, grades, slopes, and shapes, rendering exposed surface of concrete with (1:1) cement sand mortar 1/4(6mm) thick as per Engineer's drawing (Excluding excavation)					
	Type - I	2250.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-(a) reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C (nominal mix 1:2:4)	19.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastening, including cost of binding wire and labour charges for binding of steel reinforcement, (also includes removal of rust from bars)	57.40	Kg	%Kg	@.Rs.	@.Rs.
8	Fabrication of Heavy steel work with angles, tees, flat iron, round iron and steel iron for making strusses, griders, tanks etc. including cutting, drilling, reviting, handling essembling and fixing including errectioning position. (Gierder Cross on type-I drains).	49.42	Kg	%Kg	@.Rs.	@.Rs.
9	Cement cocnrete plain including palcing compacting finishing & curing complete including screening & washing of stone aggregates ratio 1:2:4	33.80	Cft	%Cft	@.Rs.	@.Rs.
<b>BRICK PAVEMENTS</b>						
1	Earthwork excavation underressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	45677.75	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	11451.00	Cft	%Cft	@.Rs.	@.Rs.
<b>CONSTRUCTION OF RCC CULVERTS</b>						
1	Excavation in foundation of building bridges sand other structures, including dressing refilling around structure eith excavated earth watering and remaining lead upto on chan and lift 5ft, lead an ordinary soil, complete in all respects	1368.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth ratio 1:6:12 complete	342.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca Brick work in foundation and plinth ration (1:4) cement sand mortor complete in all respects	942.78	Cft	%Cft	@.Rs.	@.Rs.
4	Providing and laying cement concrete plain including placing compacting finishing and curing complete (including screening and washing stone aggregate) Ratio 1:2:4	48.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1/2" thick ratio 1:4 upto 20' height etc complete in all respect.	912.00	Sft	%Sft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, randering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.:a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	294.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position making joints and fastening including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) a).D-formed bars	1518.00	KG	%KG	@.Rs.	@.Rs.
8	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	4464.00	Cft	%0Cft	@.Rs.	@.Rs.
9	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	611.52	Cft	%Cft	@.Rs.	@.Rs.
	<b>SULLAGE CARRIER</b>					
1	Earth work excavation in open cutting upto 5ft depth for storm water channels drain sullage darin in open area, roads, streets, lands i/c under pinning of walls and shorting to protect existing works shuffling and tembring the trenches back filling and surplus excavated materials disposed offand dressed with 50 ft lead on ordinary soil etc complete in all respect.	7968.75	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" guage in foundation and plinth. (1:6:12)	796.88	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in cement sand mortar in foundation and plinth.(1:5)	2531.25	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete	191.25	Cft	%Cft	@.Rs.	@.Rs.
5	1/2" Cement plaster 1:4 upto 20' (6.00 m) height:-	4125.00	Sft	%Sft	@.Rs.	@.Rs.
6	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	5880.00	Cft	%0Cft	@.Rs.	@.Rs.
	<b>R.C.C SEWER</b>					
1	Dismantalling of brick on edge flooring with out concrete foundation	938.00	Sft	%Sft	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-'i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	6566.00	Cft	%oCft	@.Rs.	@.Rs.
3	Extra for slush or Daldal including dewatering(average depth=actual depth/2)	938.00	Cft	%oCft	@.Rs.	@.Rs.
4	Supplying and filling sand under floor; or plugging in wells,( laid under bed of sewer and around the sewer hanches etc complete as per PHED/PWD specifications).	422.00	Cft	%Cft	@.Rs.	@.Rs.

4	Providing and laying crush stone size 1/4" to 1" laid under bed & around the sewer as per standard specification of PHED/PWD etc complete in all respect.	313.00	Cft	P.Cft	@.Rs.	@.Rs.
5	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete 9" i/d (225mm)	100.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete					
	12" i/d.(310mm)	100.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	100.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete.( on;y labour rates for supply of pipe)					
	12" i/d.(310mm)	160.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	160.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	5253.00	Cft	%0Cft	@.Rs.	@.Rs.
8	Restoration of brick pavement/soling on laid service line with 2" sand cushion under soling etc complete in all respect.	938.00	Sft	%Sft	@.Rs.	@.Rs.
	<b>CONST OF MANHOLES CHAMBERS</b>					
1	Earthwork excavation in open cutting for sewers and timbering dressing to correct section and dimensions according to templates and levels, and removing surface water in all types of soil except shingle, gravel etc complete in all respect.0 ft to 7.0ft depth	373.00	Cft	%0Cft	@.Rs.	@.Rs.
	7.01 to 15 ft depth	54.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 50mm guage, in foundation and plinth 1:4:8	88.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work other than building upto 10ft height cement sand mortar Ratio 1:3, including extra for pacca brick work in steining of well and any other circular masonry etc complete.	341.00	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone	65.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1:2 upto 20' height 3/4" (20mm) thick	496.00	Sft	%Sft	@.Rs.	@.Rs.
6	Extra for making and finishing benching floor work manhole chamber, with 1/8" (3mm) thick cement finishing etc complete.	52.00	Sft	%Sft	@.Rs.	@.Rs.



7	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5mm) angle iron in manhole chamber, including carriage and setting the same in work to correct lines and levels complete in all respect.	32.00	No	Each	@.Rs.	@.Rs.
8	Providing and Fixing 6" thick RCC manhole cover with tee shaped C.I frame of 22" i/d (frame weighing 37.324 Kg) or one mould as per Standar Drawing STD / PD No 6, of 1977, complete in all respect.	4.00	No	Each	@.Rs.	@.Rs.
	<b>MAKING CONNECTION OF MANHOLES WITH EXISTING MANHOLE.</b>					
1	Desilting of existing manhole chamber and plugging the existing sewer line for duration of making connection with newly laid sewer line etc complete in all respect.	2.00	Job	P.Job	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	438.00	Cft	%0Cft	@.Rs.	@.Rs.
	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	188.00	Cft	%0Cft	@.Rs.	@.Rs.
4	Making hole in wall of manhole chamber for making connection of 12" dia sewer and making leakproof it after making connection with P.C.C. 1:2:4	2.00	Job	P.Job	@.Rs.	@.Rs.
5	Dry rammed brick or stone ballast, 1 1/2" to 2"( 40 mm to 50 mm) gauge.	38.00	Cft	%Cft	@.Rs.	@.Rs.
6	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc., complete. 12" i/d.(310mm)	16.00	Rft	P.Rft		
7	Rehandling of earthwork lead upto Upto a lead of 50 ft. (15 m). Etc complete in all respect.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
8	Compaction of earthwork (soft, ordinary or hard soil),a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
9	Ramming earthwork (all types of soil).	500.80	Cft	%0Cft	@.Rs.	@.Rs.
	<b>CONST OF GULLY GRATINGS</b>					
1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	384.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Construction of standard Gully grating chamber 3' x 2 1/2' with china ware trap as per PHE drawing No; STD/PD No: 3 of 1977 complete in all respect	2.00	No	Each	@.Rs.	@.Rs.

3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d (225mm)	32.00	Rft	P.Rft	@.Rs.	@.Rs.
4	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	307.20	Cft	%0Cft	@.Rs.	@.Rs.
<b>TUFF TILES</b>						
1	Earthwork excavation underressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	18834.46	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing and Laying sub base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub base material to required depth, camber, grade to achieve 100% maximum modified AASSHO dry density, including carriage of all material to site of work except gravel and aggregate. (i) Pit run or bed run gravel etc complete	3411.00	Cft	%Cft	@.Rs.	@.Rs.
3	Providing and laying Tuff pavers having 7000 PSI crushing strength of approved manufacturer over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect.(50% grey & 50% coloured) 60 mm thick	13643.00	Sft	P.Sft	@.Rs.	@.Rs.

**NOTE:-**

Omission/error if any may be referred to the technical sanctioned estimate.

SIGNATURE OF CONTRACTOR,  
(WITH FULL ADDRESS)

EXECUTIVE ENGINEER  
PHE, DIVISION-I.D.G.KHAN



# SCHEDULE OF BID.



PUNJAB PUBLIC HEALTH ENGINEERING DEPARTMENT(SOUTH ZONE)  
PUNJAB PUBLIC HEALTH ENGINEERING DIVISION-I, DERA GHAZI KHAN

NAME OF WORK:-

CONSTRUCTION OF DRAINAGE/SEWERAGE,  
SOLING, TUFF TILE AND CULVERTS IN BASTI  
HAIROO WALA, BASTI NAWAN SHEHR, ADJ.  
ABADIES AND LEFTOVER AREA OF  
UC:HAZARA, TEH; KOT CHUTTA, DISTT;  
D.G.KHAN.(CDP-III)

NAME OF CONTRACTOR/FIRM:-

APPROXIMATE COST

Rs. 06.542 million

EARNEST MONEY

Rs. 0.327 million

TIME LIMIT

Time Limit. 12 Months

Sr No	Description of items	Quantity		Unit	Contractor Rate	
					in figures	in words
	<b>SURFACE DRAINS</b>					
1	Earthwork excavation in open cutting upto 5' - 0" (1.5m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50ft (15m) lead	2504.75	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth (1:6:12)	806.25	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in foundation and plinth in cement sand mortar ratio (1:5)	1209.38	Cft	%Cft	@.Rs.	@.Rs.
4	Pacca brick work on edge laid in reimbursement in cement sand mortar, on sides of drains, and on other work where required. All joints to be filled and struck flush ratio(1:5)	3225.00	Sft	%Sft	@.Rs.	@.Rs.
5	Construction of punjab standard drains of cement concrete (1:2-1/2:5) with cement concrete bedding ratio (1:6:12) complete laid to lines,grades,slopes,and shapes,rendering exposed surface of concrete with (1:1) cement sand mortar 1/4(6mm) thick as per Engineer's drawing (Excluding excavation)					
	Type - I	2150.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-(a) reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C (nominal mix 1:2:4)	19.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastening, including cost of binding wire and labour charges for binding of steel reinforcement, (also includes removal of rust from bars)	57.40	Kg	%Kg	@.Rs.	@.Rs.
8	Fabrication of Heavy steel work with angles, tees, flat iron, round iron and steel iron for making strusses, griders, tanks etc. including cutting, drilling, reviting, handling essembling and fixing including urrectioning position. (Gierder Cross on type-I drains).	741.34	Kg	%Kg	@.Rs.	@.Rs.
9	Cement cocnrete plain including palcing compacting finishing & curing complete including screening & washing of stone aggregates ratio 1:2:4	25.35	Cft	%Cft	@.Rs.	@.Rs.
<b>BRICK PAVEMENTS</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	34454.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	8518.00	Cft	%Cft	@.Rs.	@.Rs.
<b>CONSTRUCTION OF RCC CULVERTS</b>						
1	Excavation in foundation of building bridges sand other structures, including dressing refilling around structure eith excavated earth watering and remaining lead upto on chan and lift 5ft, lead an ordinary soil, complete in all respects	1140.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth ratio 1:6:12 complete	285.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca Brick work in foundation and plinth ration (1:4) cement sand mortor complete in all respects	785.65	Cft	%Cft	@.Rs.	@.Rs.
4	Providing and laying cement concrete plain including placing compacting finishing and curing complete (including screening and washing stone aggregate) Ratio 1:2:4	40.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1/2" thick ratio 1:4 upto 20' height etc complete in all respect.	760.00	Sft	%Sft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, randering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.:a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	245.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position making joints and fastening including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) a).D-formed bars	1265.00	KG	%KG	@.Rs.	@.Rs.
8	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	3720.00	Cft	%0Cft	@.Rs.	@.Rs.
9	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	509.60	Cft	%Cft	@.Rs.	@.Rs.
<b>SULLAGE CARRIER</b>						
1	Earth work excavation in open cutting upto 5ft depth for storm water channels drain sullage darin in open area, roads, streets, lands i/c under pinning of walls and shorting to protect existing works shufting and tembring the trenches back filling and surplus excavated materials disposed offand dressed with 50 ft lead on ordanary soil etc complete in all respect.	6375.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" guage in foundation and plinth. (1:6:12)	637.50	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in cement sand mortar in foundation and plinth.(1:5)	2025.00	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete	153.00	Cft	%Cft	@.Rs.	@.Rs.
5	1/2" Cement plaster 1:4 upto 20' (6.00 m) height:-	3300.00	Sft	%Sft	@.Rs.	@.Rs.
6	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	4704.00	Cft	%0Cft	@.Rs.	@.Rs.
<b>R.C.C SEWER</b>						
1	Dismantalling of brick on edge flooring with out concrete foundation	938.00	Sft	%Sft	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-'i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	3284.00	Cft	%oCft	@.Rs.	@.Rs.
3	Extra for slush or Daldal including dewatering(average depth=actual depth/2)	470.00	Cft	%oCft	@.Rs.	@.Rs.
4	Supplying and filling sand under floor; or plugging in wells,( laid under bed of sewer and around the sewer hanches etc complete as per PHED/PWD specifications).	422.00	Cft	%Cft	@.Rs.	@.Rs.

4	Providing and laying crush stone size 1/4" to 1" laid under bed & around the sewer as per standard specification of PHED/PWD etc complete in all respect.	157.00	Cft	P.Cft	@.Rs.	@.Rs.
5	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete 9" i/d (225mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete					
	12" i/d.(310mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	50.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Providing and laying RCC pipe sewrs, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete.( on;y labour rates for supply of pipe)					
	12" i/d.(310mm)	160.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	160.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	2627.00	Cft	%0Cft	@.Rs.	@.Rs.
8	Restoration of brick pavement/soling on laid service line with 2" sand cushion under soling etc complete in all respect.	938.00	Sft	%Sft	@.Rs.	@.Rs.
	<b>CONST OF MANHOLES CHAMBERS</b>					
1	Earthwork excavation in open cutting for sewers and timbering dressing to correct section and dimensions according to templates and levels, and removing surface water in all types of soil except shingle, gravel etc complete in all respect.0 ft to 7.0ft depth	270.00	Cft	%0Cft	@.Rs.	@.Rs.
	7.01 to 15 ft depth	39.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 50mm guage, in foundation and plinth 1:4:8	66.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work other than building upto 10ft height cement sand mortar Ratio 1:3, including extra for pacca brick work in steining of well and any other circular masonry etc complete.	272.00	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone	48.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1:2 upto 20' height 3/4" (20mm) thick	385.00	Sft	%Sft	@.Rs.	@.Rs.
6	Extra for making and finishing benching floor work manhole chamber, with 1/8" (3mm) thick cement finishing etc complete.	39.00	Sft	%Sft	@.Rs.	@.Rs.

7	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5mm) angle iron in manhole chamber, including carriage and setting the same in work to correct lines and levels complete in all respect.	24.00	No	Each	@.Rs.	@.Rs.
8	Providing and Fixing 6" thick RCC manhole cover with tee shaped C.I frame of 22" i/d (frame weighing 37.324 Kg) or one mould as per Standar Drawing STD / PD No 6, of 1977, complete in all respect.	3.00	No	Each	@.Rs.	@.Rs.
	<b>MAKING CONNECTION OF MANHOLES WITH EXISTING MANHOLE.</b>					
1	Desilting of existing manhole chamber and plugging the existing sewer line for duration of making connection with newly laid sewer line etc complete in all respect.	2.00	Job	P.Job	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	438.00	Cft	%0Cft	@.Rs.	@.Rs.
	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	188.00	Cft	%0Cft	@.Rs.	@.Rs.
4	Making hole in wall of manhole chamber for making connection of 12" dia sewer and making leakproof it after making connection with P.C.C. 1:2:4	2.00	Job	P.Job	@.Rs.	@.Rs.
5	Dry rammed brick or stone ballast, 1 1/2" to 2"( 40 mm to 50 mm) gauge.	38.00	Cft	%Cft	@.Rs.	@.Rs.
6	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc., complete. 12" i/d.(310mm)	16.00	Rft	P.Rft		
7	Rehandling of earthwork lead upto Upto a lead of 50 ft. (15 m). Etc complete in all respect.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
8	Compaction of earthwork (soft, ordinary or hard soil),a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
9	Ramming earthwork (all types of soil).	500.80	Cft	%0Cft	@.Rs.	@.Rs.
	<b>CONST OF GULLY GRATINGS</b>					
1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	384.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Construction of standard Gully grating chamber 3' x 2 1/2' with china ware trap as per PHE drawing No; STD/PD No: 3 of 1977 complete in all respect.	2.00	No	Each	@.Rs.	@.Rs.

3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d (225mm)	32.00	Rft	P.Rft	@.Rs.	@.Rs.
4	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	307.20	Cft	%0Cft	@.Rs.	@.Rs.
<b>TUFF TILES</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	16984.59	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing and Laying sub base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub base material to required depth, camber, grade to achieve 100% maximum modified AASSHO dry density, including carriage of all material to site of work except gravel and aggregate. (i) Pit run or bed run gravel etc complete	3050.00	Cft	%Cft	@.Rs.	@.Rs.
3	Providing and laying Tuff pavers having 7000 PSI crushing strength of approved manufacturer over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect.(50% grey & 50% coloured) 60 mm thick	12199.00	Sft	P.Sft	@.Rs.	@.Rs.

**NOTE:-**

Omission/error if any may be referred to the technical sanctioned estimate.

SIGNATURE OF CONTRACTOR,  
(WITH FULL ADDRESS)

EXECUTIVE ENGINEER  
PHE, DIVISION-I.D.G.KHAN





# SCHEDULE OF BID.



PUNJAB PUBLIC HEALTH ENGINEERING DEPARTMENT(SOUTH ZONE)

PUNJAB PUBLIC HEALTH ENGINEERING DIVISION-I, DERA GHAZI KHAN

NAME OF WORK:-

**CONSTRUCTION OF DRAINAGE / SEWERAGE,  
SOLING, TUFF TILE AND CULVERTS IN BASTI MIAN  
WALA, BASTI WASOO WALA, ADJ. ABADIES AND  
LEFTOVER AREA OF UC: JHOKE UTRA, TEH; KOT  
CHUTTA, DISTT: D.G.KHAN. (CDP-III)**

NAME OF CONTRACTOR/FIRM:-

APPROXIMATE COST

**Rs. 06.542 million**

EARNEST MONEY

**Rs. 0.327 million**

TIME LIMIT

**Time Limit. 12 Months**

Sr No.	Description of items	Quantity	Unit	Contractor Rate	
				in figures	in words
	<b>SURFACE DRAINS</b>				
1	Earthwork excavation in open cutting upto 5' - 0" (1.5m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50ft (15m) lead	2504.75	Cft	%0Cft	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth (1:6:12)	806.25	Cft	%Cft	@.Rs.
3	Pacca brick work in foundation and plinth in cement sand mortar ratio (1:5)	1209.38	Cft	%Cft	@.Rs.
4	Pacca brick work on edge laid in reimbursement in cement sand mortar, on sides of drains, and on other work where required. All joints to be filled and struck flush ratio(1:5)	3225.00	Sft	%Sft	@.Rs.
5	Construction of punjab standard drains of cement concrete (1:2-1/2:5) with cement concrete bedding ratio (1:6:12) complete laid to lines,grades,slopes,and shapes,rendering exposedsurface of concrete with (1:1) cement sand mortar 1/4(6mm) thick as per Engineer's drawing (Excluding excavation)				
	Type - I	2150.00	Rft	P.Rft	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, rendering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.:a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	19.00	Cft	P.Cft	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastening, including cost of binding wire and labour charges for binding of steel reinforcement, (also includes removal of rust from bars)	57.40	Kg	%Kg	@.Rs.	@.Rs.
8	Fabrication of Heavy steel work with angles, tees, flat iron, round iron and steel iron for making strusses, griders, tanks etc. including cutting, drilling, reviting, handling essembling and fixing including errectioning position. (Gierder Cross on type-I drains).	741.34	Kg	%Kg	@.Rs.	@.Rs.
9	Cement cocnrete plain including palcing compacting finishing & curing complete including screening & washing of stone aggregates ratio 1:2:4	25.35	Cft	%Cft	@.Rs.	@.Rs.
<b>BRICK PAVEMENTS</b>						
1	Earthwork excavation underessed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	32145.23	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	7951.00	Cft	%Cft	@.Rs.	@.Rs.
<b>CONSTRUCTION OF RCC CULVERTS</b>						
1	Excavation in foundation of building bridges sand other structures, including dressing refilling around structure eith excavated earth watering and remaining lead upto on chan and lift 5ft, lead an ordinary soil, complete in all respects	912.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" gauge in foundation and plinth ratio 1:6:12 complete	228.00	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca Brick work in foundation and plinth ration (1:4) cement sand mortor complete in all respects	628.52	Cft	%Cft	@.Rs.	@.Rs.
4	Providing and laying cement concrete plain including placing compacting finishing and curing complete (including screening and washing stone aggregate) Ratio 1:2:4	32.00	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1/2" thick ratio 1:4 upto 20' height etc complete in all respect.	608.00	Sft	%Sft	@.Rs.	@.Rs.
6	Providing and laying reinforced cement concrete (including prestressed concrete) using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting compacting, curing, randering and finishing exposed surface, complete(but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.:a)reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural memberslaid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C(nominal mix 1:2:4)	196.00	Cft	P.Cft	@.Rs.	@.Rs.

7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position making joints and fastening including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars) a).D-formed bars	1012.00	KG	%KG	@.Rs.	@.Rs.
8	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	2976.00	Cft	%OCft	@.Rs.	@.Rs.
9	Providing laying dry brick pavement / Soling in streets or roads etc; sand grouted laid in proper camber i/c preparation, watering, compacting of bed to proper camber & sand cushion.	407.68	Cft	%Cft	@.Rs.	@.Rs.
<b>SULLAGE CARRIER</b>						
1	Earth work excavation in open cutting upto 5ft depth for storm water channels drain sullage darin in open area, roads, streets, lands i/c under pinning of walls and shorting to protect existing works shuffling and tembring the trenches back filling and surplus excavated materials disposed offand dressed with 50 ft lead on ordinary soil etc complete in all respect.	6109.38	Cft	%OCft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 1-1/2" to 2" guage in foundation and plinth. (1:6:12)	610.94	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work in cement sand mortar in foundation and plinth.(1:5)	1940.63	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete	146.63	Cft	%Cft	@.Rs.	@.Rs.
5	1/2" Cement plaster 1:4 upto 20' (6.00 m) height:-	3162.50	Sft	%Sft	@.Rs.	@.Rs.
6	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	4704.00	Cft	%OCft	@.Rs.	@.Rs.
<b>R.C.C SEWER</b>						
1	Dismantalling of brick on edge flooring with out concrete foundation	938.00	Sft	%Sft	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	6566.00	Cft	%oCft	@.Rs.	@.Rs.
3	Extra for slush or Daldal including dewatering(average depth=actual depth/2)	938.00	Cft	%oCft	@.Rs.	@.Rs.
4	Supplying and filling sand under floor; or plugging in wells,( laid under bed of sewer and around the sewer hanches etc complete as per PHED/PWD specifications).	422.00	Cft	%Cft	@.Rs.	@.Rs.

4	Providing and laying crush stone size 1/4" to 1" laid under bed & around the sewer as per standard specification of PHED/PWD etc complete in all respect.	313.00	Cft	P.Cft	@.Rs.	@.Rs.
5	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d.(225mm)	100.00	Rft	P.Rft	@.Rs.	@.Rs.
6	Providing and laying RCC pipe sewers, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete					
	12" i/d.(310mm)	100.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	100.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Providing and laying RCC pipe sewers, moulded with cement concrete 1:1-1/2:3 conforming to ASTM specification C-76-79, class II. Wall B including carriage of pipe from factory to site of work lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc complete.( on;y labour rates for supply of pipe)					
	12" i/d.(310mm)	80.00	Rft	P.Rft	@.Rs.	@.Rs.
	15" i/d.(380mm)	82.00	Rft	P.Rft	@.Rs.	@.Rs.
7	Rehandling of earthwork lead upto a single throw of Kassi pharaoh or shovel etc complete in all respect.	5253.00	Cft	%0Cft	@.Rs.	@.Rs.
8	Restoration of brick pavement/soling on laid service line with 2" sand cushion under soling etc complete in all respect.	938.00	Sft	%Sft	@.Rs.	@.Rs.
	<b>CONST OF MANHOLES CHAMBERS</b>					
1	Earthwork excavation in open cutting for sewers and timbering dressing to correct section and dimensions according to templates and levels, and removing surface water in all types of soil except shingle, gravel etc complete in all respect.0 ft to 7.0ft depth	373.64	Cft	%0Cft	@.Rs.	@.Rs.
	7.01 to 15 ft depth	53.38	Cft	%0Cft	@.Rs.	@.Rs.
2	Cement concrete brick or stone ballast 50mm gauge, in foundation and plinth 1:4:8	88.53	Cft	%Cft	@.Rs.	@.Rs.
3	Pacca brick work other than building upto 10ft height cement sand mortar Ratio 1:3, including extra for pacca brick work in steining of well and any other circular masonry etc complete.	339.93	Cft	%Cft	@.Rs.	@.Rs.
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone	64.87	Cft	%Cft	@.Rs.	@.Rs.
5	Cement plaster 1:2 upto 20' height 3/4" (20mm) thick	495.19	Sft	%Sft	@.Rs.	@.Rs.
6	Extra for making and finishing benching floor work manhole chamber, with 1/8" (3mm) thick cement finishing etc complete.	50.27	Sft	%Sft	@.Rs.	@.Rs.

7	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5mm) angle iron in manhole chamber, including carriage and setting the same in work to correct lines and levels complete in all respect.	32.00	No	Each	@.Rs.	@.Rs.
8	Providing and Fixing 6" thick RCC manhole cover with tee shaped C.I frame of 22" i/d (frame weighing 37.324 Kg) or one mould as per Standar Drawing STD / PD No 6, of 1977, complete in all respect.	4.00	No	Each	@.Rs.	@.Rs.
	<b>MAKING CONNECTION OF MANHOLES WITH EXISTING MANHOLE.</b>					
1	Desilting of existing manhole chamber and plugging the existing sewer line for duration of making connection with newly laid sewer line etc complete in all respect.	2.00	Job	P.Job	@.Rs.	@.Rs.
2	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	438.00	Cft	%0Cft	@.Rs.	@.Rs.
	ii) 7-01 ft. to 15.0 ft. (2.15 to 4.5 m) depth	188.00	Cft	%0Cft	@.Rs.	@.Rs.
4	Making hole in wall of manhole chamber for making connection of 12" dia sewer and making leakproof it after making connection with P.C.C. 1:2:4	2.00	Job	P.Job	@.Rs.	@.Rs.
5	Dry rammed brick or stone ballast, 1 1/2" to 2"( 40 mm to 50 mm) gauge.	38.00	Cft	%Cft	@.Rs.	@.Rs.
6	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc., complete. 12" i/d.(310mm)	16.00	Rft	P.Rft		
7	Rehandling of earthwork lead upto Upto a lead of 50 ft. (15 m). Etc complete in all respect.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
8	Compaction of earthwork (soft, ordinary or hard soil),a) Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	500.80	Cft	%0Cft	@.Rs.	@.Rs.
9	Ramming earthwork (all types of soil).	500.80	Cft	%0Cft	@.Rs.	@.Rs.
	<b>CONST OF GULLY GRATINGS</b>					
1	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:-i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	384.00	Cft	%0Cft	@.Rs.	@.Rs.
2	Construction of standard Gully grating chamber 3' x 2 1/2' with china ware trap as per PHE drawing No; STD/PD No: 3 of 1977complete in all respect.	2.00	No	Each	@.Rs.	@.Rs.

3	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc including cost of reinforcement, conforming to BSS,5911 Part I: Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.9" i/d (225mm)	32.00	Rft	P.Rft	@.Rs.	@.Rs.
4	Rehandling of earthwork lead upto a single throw of Kassi phaorah or shovel etc complete in all respect.	307.20	Cft	%0Cft	@.Rs.	@.Rs.
<b>TUFF TILES</b>						
1	Earthwork excavation underdressed lead upto a single throw of Kassi, phaorah or shovel:- Ordinary soil including Transportation of earth all types when the total distance,including the lead covered in the item of work is more than 1000.Ft:(300m) a).upto1/4 mile (400m) lead upto 1 mile.	18956.06	Cft	%0Cft	@.Rs.	@.Rs.
2	Providing and Laying sub base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub base material to required depth, camber, grade to achieve 100% maximum modified AASSHO dry density, including carriage of all material to site of work except gravel and aggregate. (i) Pit run or bed run gravel etc complete	3431.00	Cft	%Cft	@.Rs.	@.Rs.
3	Providing and laying Tuff pavers having 7000 PSI crushing strength of approved manufacturer over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope complete in all respect.(50% grey & 50% coloured) 60 mm thick	13723.00	Sft	P.Sft	@.Rs.	@.Rs.

**NOTE:-**

Omission/error if any may be referred to the technical sanctioned estimate.

SIGNATURE OF CONTRACTOR,  
(WITH FULL ADDRESS)

EXECUTIVE ENGINEER  
PHE, DIVISION-I.D.G.KHAN