# APPENDIX A BREAKDOWN OF CONSTRUCTION COST OF LOT III WORK

#### A1. PRELIMINARY ITEM

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price		Unit Price	Amount	
/01 Guarantee Cost of Perfo The cost is estimated at about 1 % of the amount of Performance Bond, which is allowed at 20 % of total direct construction cost Total of direct constructio in MRs. equivalent - Gurantee cost	1		MRs. 123,6	01,000 0 x 0.2 x 0.01 =	MRs 247.2	 	
Total			123,001,000		17113. 2-77,2	247,200	
						,	
/02 Cost for Insurance of Work The cost is estimated at about 1 % of total direct construction cost Total of direct construction		*	US \$ 9,022,	000			
in US \$ equivalent - Insurance of Works	11 003			000 x 0.01 = U	S \$ 00 100		
- insurance of works  Total			رغن <i>ا</i> المراد به المراد المرا	90,100	υ φ 90,100 	! ! !	
4.000						j	
/03 Cost of Third Party Insu The cost is estimated at about 0.2 % of total direct construction cost Total of direct constructio in US \$ equivalent - Third Party Insurance			US \$ 9,022, US \$ 9,022,	000 000 x 0.002 = 1	US \$ 18,100		
Total				18,100		i   - 	
/04 Insurance of Accident to The cost is estimated at about 0.5 % of total of the local currency portion of direct construction cost.  - total of the local portion con in MRs. equivalent  - Insurance of Accident to V	ost		MRs. 33,09 MRs. 33,09	8,000 8,000 x 0.005 =	- MRs. 165,5	500	
Total				•		165,500	
/05 Guarantee Cost of Advarantee Cost is estimated at about 1 % of the amount of Advance Payment Bond which is allowed at 10 % of total direct construction cost - total of direct construction in MRs. equivalent - Insurance of Accident to V	cost		MRs. 123,6 MRs. 123,6	01,000 01,000 x 0.1 x	0.01 = MRs.	123,600	
Total	<b></b>			_		123,600	:

## A1. PRELIMINARY ITEM

Description	Unit	Quantity	Foreign Cur	rrency (US\$)	Local Curre	ency (Rs)	Remarks
			Unit Price!	Amount	Unit Price	Amount	
/06 Costructor's Camps, Off	ice a	nd Other	Facilities i		i		
The cost is estimated at			] 				
about 2.0 % of total direct			į		į		
construction cost.	l	}			}		
- Total of direct constructio	n cos	t	MRs. 123,60	11,000	!		
in MRs. equivalent			ND 100 C	1 000 000	1	000	
- The Cost			MRS. 123,60	01,000 x 0.02 =	= MKS. 2,472,	,000	
<u>Total</u>				-		2,472,000	
					1		

## A2. GENERAL ITEM

լաու	Quantity	Foreign Cur	rency (US\$)	Local Curre	ency (Rs)	Remarks
	<u> </u>	Unit Price	Amount	Unit Price	Antount	
m2	85	300	25,500	2,400	204,000	
[		:		1		
		į		į		
				1		
	,	i I	25,500	]	204,000	·
l ure		1				
	1	9,200	9200	6,300	6,300	
nr	1					
	1					
I	1					
I	[	.,. = - 1		. ,	200	
			_			
I 1	2	2.100	4200	1,450	_	
-	_	_,,		-, -, -,	·	
nr	2	1	•	2,800	5,600	
nr	1	1	-	7,300	7,300	
nr	1	į	-	11,000	11,000	
nr	4	1,920	7680	1,310	5,240	
nr	1	1,180	1180	810¦	810	
nr	1	1,600	1600	1,100	1,100	
sum		i 1	550	ļ	8,000	
sum		į	1,900	Į.	8,300	
		ļ	38,800		173,700	
		Г		r I		
		l.	64,300	l L	377,700	
			· <del></del>			
	chines	j	705	 	3 000	
! }		1		1	3,000	
1 1		į	413	į	168 000	
		1	1 200			
		į	000 نار1	i I	171,000	
  y		t				
nr		 	10,500	]	41,000	
		į	10,000	į	41,000	
			2,600	] 	2,000	
		] 1	23,100	<u> </u>	84,000	
	ļ	ļ	<del></del>			
	m2 ure nr nr nr sum set nr nr nr nr sum set y Fa	m2 85  m2 85  mr 1  mr 1	ure nr 1 9,200 nr 1 3,800 nr 1 3,800 nr 1 4,700 sum sum set 2 2,100 nr 1	The content of the	Unit Price   Amount   Unit Price   m2   85   300   25,500   2,400	Unit Price   Amount   Unit Price   Amount

## **B1. INTAKE**

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
,			Unit Price i	Amount	Unit Price i	Amount	
B1.1 Temporary Work					 		:
/01 Temporary Cofferdam			1				
1) Labour	]		1				
- Foreman	nı.d.	1.7	į	<b>-</b>	350.00	595	
- Skilful Jabour	m.d.	9.9	1	-	240.00	2,376	built-in and removal of
- Common labour	m.d.	38.6	1	-	170.00	6,562	sheet piles, and
- Operator	m.d.	8.5	į	_	300.00	2,550	making, piling, removing
- Asst. operator	m.d.	2.9		-	220.00	638	sand bags
Subtotal			1 1		i	12,721	
2) Equipment			) 		1		
- Truck crane, 16 ton	hr	48.5	15.40	<b>7</b> 47	42.20	2,047	
Subtotal			į	747		2,047	
3) Materials		:			, I		
- Sheet pile, 400x400x10.5	kg	15840	0.204	3,231	ا 0.700	11,088	h=5.0m x 66 nr
- H-steel, 200x200x8x12			į		į		5-time use
for wale and strut	kg	3400	0.124	422	0.424	,	5-time use
- Sand bags, 62 cm x 48 cm	nr.	446	 	-	4.20	1,873	
- Unwashed rock-sand	m3	9	10.42 j	94	95.20	857	
- Diesel oil	lit.	378	0.52	197	0.36	136	
- Engine oil	lit.	16.3	2.41	39	1.65	27	
Subtotal			1	3,983	l I	15,423	
4) Miscellaneous (5% of 1 to 3			į	236	Ì	1,510	
5) Overhead and profit (20% o	f 1 to	4)		993	į	6,340	
6) Total of 1 to 5			1	5,959	 	38,040	
7) Rock excavation for built-in			1		l i		
of sheet pile, including			į		į		
backfilling after built-in				400	1 (0.70	0.716	
(by man-power)	m3	16	11.65	186	169.78 i	2,716 40,756	í í
Total (6+7)			l.	6,146		40,730	
			<u>.</u>		i		<u> </u>

## **B1. INTAKE**

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
•			Unit Price	Amount	Unit Price	Amount	
/02 Temporary raw water it	ıtakç						
pipelaying work	1		ļ ļ			;	
1) Labour			į				
- Foreman	m.d.	0.20		_	350.00	70	
- Plumber	m.d.	2.60	ļ ļ	-	240.00	624	
- Common labour	nı.d.	3,60	i		170.00	612	
- Operator	m.d.	1.03		-	300.00	309	
- Asst. operator	m.d.	0.35		_	220.00	77	
Subtotal					i	1,692	
2) Equipment			!		]		
- Truck crane, 16 ton	hr	5.88	15.40	91	42.20	248	1.2 day @ 4.9 hr
Subtotal				91		248	
3) Materials		:			ļ		
- Steel pipes, DN450x18.1m							
and DN600x9.8m	kg	2084	0.680	1,417	2.780	•	3-time use
<ul> <li>Steel bends and flanges</li> </ul>	kg	594	4.03	2,394	16.58	9,849	3-time use
<ul> <li>Fabrication in local</li> </ul>			i				
factory (welding), DN450	nr.	6		•	1700.00	10,200	
<ul> <li>Fabrication in local</li> </ul>	1		į				
factory (welding), DN600	nr.	4		-	2100.00	8,400	
- Diesel oil	lit.	45.86	ו 0.52		0.36	17	
- Engine oil	lit.	1.97	2.41		1.65	3	
Subtotal				3,840		34,262	
4) Miscellaneous (5% of 1 to 3			!	197		1,810	
5) Overhead and profit (20% o		4)		825		7,602	
Total (1 to 5)			1	4,952		45,614	
		<del></del> _					
B1.4 Pipe Work							
/01 Sluice Gate			į				
- Sluice gate, DN 800 mm	set	1	31220.00	31,220	42780.00	42,780	
with headstock, type C							
- Bellmouth, DN 800 mm	kg	206	3.80	783	4.50	927	
- Miscellaneous (5%)				1,600		2,185	
- Overhead and profit (20%)				6,721		9,178	
Subtotal				40,324		55,071	
			!			-	
- Sluice gate installation,	nr	1	24.24	24	1400.53	1,401	
type C		_				,	
- Headstock installation,	nr	1	İ	 !	103.20	103	
type C	""	1	ļ				
Total				40,348		56,575	
2000						/	
				· · · · · · · · · · · · · · · · · · ·			<u> </u>

## B1. INTAKE

Description	Unit	Quantity	Foreign Cui	rrency (US\$)	Local Curre	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price i	Amount	
B1.5 Metal Work			1		1		
/01 Bar Screen			1				
- Angle, L-75x75x6(t)	kg	481	0.582	280	8.372	4,027	Adding 100% of material
- Round bar, 13 mm in dia.	kg	556	0.584	325	8.400	4,670	cost as fabrication cost
- Guide channel, [-150x75	kg	222	0.675	150	9.710	2,156	to local currency portion
x6.5(t)		1	· · [		1		inclusive of painting,
- Support cannel, [-100x50 x5	kg	59	0.675	40	9.710	573	transporting and installing
- Support steel, L-150x150 x12	kg	93	0.582	54	8.372	779	
- Anchor bar, D13, deformed bar	kg	13	0.584	8	8.400	109	
Subtotal			j	856		12,314	
- Miscellaneous (5%)			;	43	;	616	
- Overhead and profit (20%)			!	180	!	2,586	
Total		ļ	1 1 1	<b>1,0</b> 79		15,515	
			<u> </u>		i		

## **B2. RAW WATER TRANSMISSION PIPELINE**

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price	Amount	Unit Price	Amount	
B2.1 Earthwork							
/07 Protection fence for falling	ig ro	cks	!		ļ		
(fence height of 3.0m, tota	al lei	ngth of 50	0m) j				
1) Labour			i		i		
- Foreman	m.đ.	5.5		-	350.00	-	
- Skilful labour	m.d.	19.4	į	-	240.00		
- Common labour	m.d.	38.7	i		170.00	·	
- Driver	m.d.	9.5	}	-	240.00	-	
Subtotal			j			15,440	
2) Equipment					· ,		
- Truck crane, 4.9 ton	lır	46	8.60	396	23.60	•	
Subtotal			†	396	į	1,086	
3) Material			!				
- H-steel 150x150x7/10x4000	, ,	219	110.00	24,090	75.00	•	•
- Galvanised wire rope, 18dia	m	324	3,30¦	1,069	4.50	1,458	and wire clamps
- Galvanised wire mesh,					ا ا مــ ــم ا		
4dia x 50mm	m2	1503	10.00	15,030	13.70	·	
- Diesel oil	lit.	248	0.52¦	129	0.36		
- Engine oil	lit.	11	2.41	27	1.65	18	
· Subtotal			į	40,345	į	38,582	
4) Miscellaneous (5% of 1 to 3	)		}	2,037	i I	2,755	
5) Overhead and profit		:	!		ļ	:	
(20% of 1 to 4)			i	8,555	i	11,572	
6) Total of 1 to 5			1	51,333	l I	69,435	
7) Civil engineering works			į		į		
- Excavation, rock, backhoe	m3	79	4.22	333	25.15	1,987	
- Backfilling, man-power	m3	44	1.50	66	19.21	845	
- Concrete, class E	m3	35	105.22	3,683	990.67		
- Formwork, type F1	m2	350	6.30	2,205	344.00	120,400	
Subtotal		550	1	6,287	1	157,906	
545.00			i	2,207	į		
Total (6 + 7)				57,620	1	227,341	
			<u> </u>		į	· · · · · · · · · · · · · · · · · · ·	
				l			

## **B2. RAW WATER TRANSMISSION PIPELINE**

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr		Remarks
			Unit Price	Amount	Unit Price	Amount	
B2.3 Pipe Work							
/01 Raw water pipelaying wo	rks				, 		
1) Pipe material			1		1		•
- Straight pipe, DN 800 mm x 5,500 long, DIP, Push in	ton	479	1500.00	718,500	2100.00	1,005,900	
type		1.77	2000 001	66 120	senn nat	70 200	
- DIP fittings, DN 800 mm - Mechanical joint, DN 800	ton set	17.4 32	3800.00 221.80	66,120 7,098	4500.00 <sup>1</sup> 303.87	78,300 9,724	
nim	SCI	32	1.00 £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	7,096	303.671 I	3,744	
- Miscellaneous (5%)				39,586	, ,	54,696	
- Overhead and profit (20%)			ļ 	166,261	} 	229,724	
Subtotal			. !	997,564	1	1,378,344	
2) Pipelaying work			1		i		
- Pipe installation, DN 800 mm including cutting, setting in trench and all works necessary for	m	2 <b>,1</b> 31	2.78	5,924	49.58	105,655	
pipelaying Subtotal			 	5,924	 	105,655	
Total (per 2,131m)		:	1 1 1	1,003,488		1,483,999	
Per linear metre			i 	470.90	,   	696.39	
/02 Air valve installation - Air-release valve, quick	nr	1	870	870	1,190	1,190	
exhaust type, DN 80 mm			1		j	۲۵	
- Miscellaneous (5%)			į	44 183	į	60 250	
- Overhead and profit (20%) Subtotal			1	183 1,096		250 1,499	
			İ		İ		
- Air valve installation Total	nr	1	i i j	1,096	146.16	146 1,646	į

## **B3. RIVER CROSSING**

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curre	ency (Rs)	Remarks
		 	Unit Price i	Amount	Unit Price	Aniount	
B3.1 Temporary Work			ı				
/01 Temporary Coffering			i				
1) Labour			į		l		
- Common labour	m.d.	104.2	į	•	170.00	17,714	
Subtotal					i	17,714	
2) Equipment				-		-	
3) Material			1				
- Sand bags, 62cmx48cm	nr	2482			4.20	10,424	
<ul> <li>Unwashed rock sand</li> </ul>	m3	50	10.42	521	95.20	4,760	
- Timber board $t = 20$	m3	0.13	243.21	32	13328.00	1,733	
Subtotal				553	į	16,917	
4) Miscellaneous (5% of 1+3)				28		1,732	
<ol><li>Overhead and profit</li></ol>			1		1	İ	
(20% of 1+3+4)				116	į	7,273	
Total		,		696		43,635	
			I		·		

## **B4. WASH-OUT PIPE**

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
·			Unit Price	Amount	Unit Price i	Amount	
B4.2 Concrete Work					!		
/04 Drain-pit including g	rati	ng cove	r		 		
- Reinforced concrete pipe	m	1.5		•	3,021.00	4,531.50	
ND 1050	l. a	29.0	0.58	16.88	ا !8.38	243.02	
- Grating cover, D 1300	kg	29,0	امري	0.84	0,30	239	
- Miscellaneous (5%)				3.54			
- Overhead and profit (20%) Subtotal				21.27		1,003 6,016	
Subtotat			į	21.27	İ	0,010	
- Rock embankment,	m3	2.4	0.07	0.17	28.19	67.66	
manpower	1113	4	1	0.17	20.17	07100	
Total				21.43	! !	6,083.55	
			 		- 		
B4.3 Pipe Work			) I		1		
/01 Pipelaying work			į		1		
- Wash-out pipe,	m	29	35.73	1,036.17	48.34	1,401.86	
DN 150 mm					i 		
- Fittings, DN 150 mm	kg	83	4.90i	406.70	6.70i	556.10	
- Miscellaneous (5%)			į	72	į	98	
- Overhead and profit (20%)			i	303		411	
Subtotal			] 	1,818	 	2,467	
- Pipe installation work,	m	29		_	31.19	904.51	
DN 150 mm, DIP	111	2.7	 		71,17	704,51	
Total (per 29m)			i	1,818.02	į	3,371.54	
			Í	·	İ		
Per linear metre			į	62.69	į	116.26	J
  -    -    -    -    -    -    -    -			į				
/02 Wash-out valve installati		4	840	840	1,150i	1 150	
- Sluice valve, DN 150 mm	nr	1	8401 1	1	1,1201	1,150	Í
- Miscellaneous (5%)			1	42.00	1	57.50	
- Overhead and profit (20%)	l		į	176.40	į	241.50	1
Subtotal			!	1,058.40	! !	1,449.00	j
- Valve installation,	nr	1	 	_	ا 544.45	544.45	
DN 150 mm	111	*	Ì		(	5,11,10	
- Valve box, DN 150 mm	nr	1	31.92	31.92	1,376.80	1,376.80	}
Total			1 [	1,090.32		3,370.25	
			ĵ. I		-  -		

## C1. RECEIVING TANK

Description	Unit	Quantity	Foreign Cui	rrency (US\$)	Local Curre	ency (Rs)	Remarks
			Unit Price i		Unit Price	Amount	
C1.3 EQUIPMENT AND	MA	TERIA	LS				
			t				;
/01 Precast Concrete Cover				00.60	1 10 5 00	225 20	
- Concrete, class F	m3	0.2				225.38	
- Formwork, finishing F1	m2	1.6	6.30		344.00		•
- Reinforcement	kg	62.3	0.7482		1.862		
- Handle	kg	9.4	0.584	5.49	0.400	3.76	
- Mortar plastering, 1:3	m3	0.005	89.72		526.80	2.63	
- Sealant	m	11	3.85 I	42.35	5.27	57.97	
Total (per 4 pieces)			! !	128.59	1	956.14	
Total (per 1 piece)			1	32.15	1	239.04	
C1.4 PIPE WORK		<u> </u>	 		 		
/01 DN 800 DIP			 	į			
- Straight pipe	1.0	1,110	1.50i	1,665.00	2.10	2,331.00	
- Straight pipe - Special fittings	kg	1,110	3.80			7,020.00	
- Special Intings - Mechanical joint	kg set	1,500	221.80		303.87		
- Steel fittings	kg	200	12.10		16.58		
- Miscellaneous (5%)	^5	200	12.10	522.83	10.50	663.74	
- Overhead and profit (20%)			ļ	2,195.89		2,787.70	İ
Subtotal (9m)			į	13,175.32	į	16,726.17	
- Per linear metre	m	1.0	1	1,463.92		1,858.46	
- Pipelaying work	m	1.0	:	2.78	1	49.58	
Total (per 1m)			į	1,466.70	į	1,908.04	
			 		\ ! 		
/02 DN 700 DIP							
- Straight pipe	kg	1,310	1.50		2.10		
- Special fittings	kg	180	3.80		4.50	810.00	
- Steel fittings	kg	169	12.10	_	16.58	-	
- Miscellaneous (5%)			į	234.70	į	318.15	-
- Overhead and profit (20%)				985.72		1,336.23	
Subtotal (8m)			į	5,914.31	į	8,017.41	
- Per linear metre	m	1.0	1	739.29	1	1,002.18	
- Pipelaying work	m	1.0	]	2.6 741.80	1	45.78 1,047.96	
Total (per 1m)			 	741.89	į	1,047.90	
/03 DN 150 DIP							
- Special fittings	kg	20	4.90¦	98.00	6.70¦	134.00	
- Miscellaneous (5%)			İ	4.90	İ	6.70	
- Overhead and profit (20%)			i	20.58	į	28.14	
Subtotal			!	123.48	{ 	168.84	
- Per linear metre	m	1.0	į	123.48	į	168.84	
- Pipelaying work	m	1.0	}	-	i	31.19	
Total (per 1m)			1	123.48	[ 1	200.03	
· · · · · · · · · · · · · · · · · · ·			ļ		Ţ		

## C1. RECEIVING TANK

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curre	ency (Rs)	Remarks
-			Unit Price	Amount	Unit Price i	Amount	
/04 DN 800 mm Valve - Butterfly valve w/ headstock, type B - Miscellaneous (5%) - Overhead and profit (20%)	nr	1	23,600	23,600 1,180.00 4,956.00	32,330	32,330 1,616.50 6,789.30	
Subtotal - Valve setting - Headstock setting - Total	nr nr	1	24.41 15.90	29,736.00 24.41 15.90 29,776	1,899.66 198.99	40,735.80 1,899.66 198.99 42,834	
/05 DN 700 mm Valve - Butterfly valve w/ headstock, type B - Miscellaneous (5%) - Overhead and profit (20%)	nr	1	17,890	17,890 894.50 3,756.90	24,510	24,510 1,225.50 5,147.10	
Subtotal - Valve setting - Headstock setting - Total	nr nr	1	23.56 15.90	22,541.40 23.56 15.90 22,580	1,718.58 199.00 1	30,882.60 1,718.58 199.00 32,800	
/06 DN 150 mm Valve - Sluice valve w/ headstock, type A - Miscellaneous (5%) - Overhead and profit (20%)	nr	1	2,440,	2,440 122.00 512.40	3,340	3,340 167.00 701.40	
Subtotal - Valve setting - Headstock setting <u>Total</u>	nr nr	1 1	  -  -  -  -  -  -  -  -  -  -  -  -  -	3,074.40 - - 3,074	103.321 103.321 1	4,208.40 544.45 103.32 4,856	

## C2. RAPID MIXING TANK

Description	Unit	Quantity		rency (US\$)	Local Curr		Remarks
			Unit Price i	Amount	Unit Price	Amount	
C2.3 EQUIPMENT AND	MA	TERIA	LS		İ		
/01 Precast Concrete Cover	1		i I		I		Refer to
					 		C1. Receiving Tank
per 1 piece			İ	32.15	1	239.04	C1.3 Equipment and
			<u> </u>		1		Materials /0)
C2.4 PIPE WORK			į				
/01 DN 800 DIP			ļ	•	j		
- Straight pipe	kg	740	1.50	1,110.00	2.10	1,554.00	
- Special fittings	kg	1,150	3.80	4,370.00	4.50	=	
- Mechanical joint	set	2	221.80	443.60	303.87	' <del>'</del>	
- Steel fittings	kg	200	12.10	2,420.00	16.58		
- Miscellaneous (5%)	<b>و</b>		1	417.18		532,64	
- Oferhead and profit (20%)			!	1,752.16		2,237.08	
Subtotal (5m)			ļ	10,512.94		13,422.45	
- Per linear metre	m	1.0	į	2,102.59		2,684.49	
- Pipelaying work	m	1.0	ļ	2.78		49.58	
Total (per 1m)			1	2,105.37	l I	2,734.07	
1 5 till (P01 2 iii)			i i				
702 DN 150 DIP			<u>'</u>				
- Special fittings	kg	20	4.901	98.00	6.70	134.00	
- Miscellaneous (5%)			 	4.90		6.70	
- Oferhead and profit (20%)			İ	20.58	]	28.14	
Subtotal			į	123.48		168.84	
- Per linear metre	m	1.0	1	123.48		168.84	
- Pipelaying work	m	1.0	1	-	 	31.19	
Total (per 1m)			į	123.48	i	200.03	
•			ļ		ì		
/03 DN 800 mm Valve							
- Butterfly valve	nr	1	23,600	23,600	32,330	32,330	
w/ headstock, type B			]				
- Miscellaneous (5%)			į	1,180.00	į	1,616.50	
- Oferhead and profit (20%)		,	l	4,956.00	:	6,789.30	
Subtotal				29,736.00		40,735.80	)
- Valve setting	nr	1	24.41	24.41	1,899.66	1,899.66	
- Headstock setting	nr	1	15.90	15.90	199.00	199.00	
Total				29,776		42,834	
704 DN 150 mm Valve				· · · · · -	1		
- Sluice valve	nr	1	2,440	2,440	3,340	3,340	
w/ headstock, type A			i				
- Miscellaneous (5%)				122.00		167.00	
- Oferhead and profit (20%)			į	512.40		701.40	
Subtotal				3,074.40	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4,208.40	
- Valve setting	nr	1	_! 	-	544.45	544,45	
- Headstock setting	nr	1	-I 1	- 	ا 103.32	103.32	[
Total			İ	3,074		4,856	
					<u>_</u>		

## C3. FLOCCULATION AND SEDIMENTATION TANK

Description	Unit	Quantity		тепсу (US\$)	Local Curr		Remarks
			Unit Price i	Amount	Unit Price i	Amount	
C3.4 PIPE WORK			<b>.</b>		· · · · · · · · · · · · · · · · · · ·		
			1		 		
/01 Desludging pipe, DN 300	DIP		į		į		
- Straight pipe *	kg	108	1.50	162.00	2.10	226,80	
- Fittings	kg	298	3.80	1,132.40	4.50 <sup>1</sup>	1,341.00	
- Mechanical joint	set	6	55.50	333.00	76.04 <sup>1</sup>	456.24	
- Miscellaneous (5%)			į	81.37	į	101.20	
- Overhead and profit (20%)	}			341.75	 	425.05	
Subtotal (4.2m)			1	2,050.52	1	2,550.29	
- Per linear metre	nı	1.0	i	488.22	i	607.21	
- Pipelaying work	กเ	1.0		1.9		20.77	
Total (per 1m)	]		!	490.12	ļ	627.98	
			<u>ו</u>		l		
/02 Scouring pipe, DN 200 DI	P						<del>-</del>
- Straight pipe	kg	944	1.50	1,416.00	2.10	1,982.40	ļ
- Special fittings	kg	456	3.80	1,732.80	4.50		
- Mechanical joint	set	4	27.381	109.52	37.51	150.04	
- Miscellaneous (5%)	20,	·		162.92		209.22	
- Overhead and profit (20%)			į	684.25	į	878.73	
Subtotal (35.4m)				4,105.48	ľ	5,272.39	
- Per linear metre	mı	1.0	1	115.97	   	148.94	i
- Pipelaying work	m	1.0	į	-	į	36.71	
Total (per 1m)		J		115.97	ļ	185.65	
10001 (2001 2001)			}- 1		 		
/03 Flush Pipe			<del>-</del>				
- Pipelaying work with	m	159	52.18	8296.62	89.53	14235.27	
material GSP DN 100 mm	111	133	32.10	0250.02	اردورو	11233.27	
- Pipelaying work with	-	31	64.33	1994.23	112,26	3480.06	
	m	<b>31</b> ;	1 04,551	1934.23	112,20	5400.00	
material GSP DN 65 mm	!		!	10000 95	1	17715 22	
Subtotal			117.00	10290.85	160.00	17715.33	
- 65mm dia, angle hose valve	m	21.0	117.00	2457	160.30	3366.3	
- 100mm dia. gate valve	nr	3.0	226.6	679.8	310.44	931.32	
- Pipe support, L-65x65x6,	kg	142.0	0.582	82.644	8.37	1188.54	
U-bolt and anchor bolt					} I		
- Miscellaneous (5%)			i	160.97	į	274.31	
- Overhead and profit (20%)				676.08	i	1,152.09	
Subtotal			1	4,056.50		6,912.56	
Total		·	i	14,347	į	24,627	
					i		
* Flanged spigot a300v700lv3 v		£ 40 0\ /0 1		(0.0. (0.0.10.0)	0 1001 10	75 100 000	

<sup>\*</sup> Flanged spigot ø300x7001x3, w=(41.5-12.8)/0.44=65.2 kg/m, (0.7x65.2+12.8)x3=175 kg 175+123=298 kg Collar ø300 x 3, w=41kg x 3=123 kg

Double spigot piece ø300 x 1,060l x 2, w=50.8kg/m x 1.06 x 2 = 108 kg

## C3. FLOCCULATION AND SEDIMENTATION TANK

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price i	Amount	
/04 DN 300 mm Valve							
- Sluice valve	nr	1	4,020¦	4,020	5,510	<i>5</i> ,510	
w/ headstock, type A			!				
- Miscellaneous (5%)				201.00	ļ	275.50	
- Overhead and profit (20%)			1	844.20	 	1,157.10	
Subtotal			1	5,065.20		6,942.60	
- Valve setting	nr	1	-:	•	1,185.04	1,185.04	
- Headstock setting	nr	1	-		103.32	103.32	
Total		i	į	5,065	l L	8,230	
/05 DN 200 mm Valve							
- Sluice valve	nr	1	2,840¦	2,840	3,890	3,890	
w/ headstock, type A			į		į		
- Miscellaneous (5%)				142.00	ļ	194.50	
- Overhead and profit (20%)				596.40		816.90	
Subtotal			!	3,578.40		4,901.40	
- Valve setting	nr	1		~	740.12		
- Headstock setting	nr	1		~	103.32		
Total			1	3,578		5,744	
/06 Inlet Gate 500 x 500 mm					<b></b>		
- Gate with headstock type C	nr	1	9,810	9,810	13,440	13,440	
- Miscellaneous (5%)	:		į	490.50	į	672.00	
- Overhead and profit (20%)				2,060.10		2,822.40	
Subtotal			1	12,360.60	 	16,934.40	
- Gate installation	nr	1	19.69	20	1,088.22		
- Headstock installation	nr	1	15.90	16	199.00	199.00	
Total			l L	12,396	 	18,221	
			ĺ		į		

## C4. FILTER

C.4.4 Pipe Work	Description	Unit	Quantity		rrency (US\$)	Local Curr		Remarks
				Unit Price	Amount	Unit Price	Amount	
- SP fittings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Subtotal (97.0m)    - Per linear metre   Pipelaying work   Total (per lm)    //02 Air Inlet Pipe DN 200 SP   SP fittings   Size ve couplings   Subtotal (78.4m)    - Miscellaneous (5%)   Subtotal (78.4m)    - Per linear metre   Miles very very very very very very very very	C4.4 Pipe Work			: 			<b>!</b> !	
- SP fittings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Size ve couplings   Subtotal (97.0m)    - Per linear metre   Pipelaying work   Total (per lm)    //02 Air Inlet Pipe DN 200 SP   SP fittings   Size ve couplings   Subtotal (78.4m)    - Miscellaneous (5%)   Subtotal (78.4m)    - Per linear metre   Miles very very very very very very very very	104 7011	. ,	DN 350 ~					
Sleeve couplings	1				62 DED 60	12 50	   07 4/1 60	
- Miscellaneous (5%) - Overhead and profit (20%) Subtotal (70,mm) - Per linear metre - Pipelaying work - Subtotal (70,mm) - Per linear metre - Pipelaying work - Subtotal (70,mm) - Per linear metre - Pipelaying work - Subtotal (70,mm) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Read and profit (20%) - Subtotal (74,1m) - Per linear metre - Pipelaying work - Sp fittings - Siceve couplings - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal (74,1m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal (47,1m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - Per linear metre - Pipelaying work - Total (per l m) - No Pittlings - Siceve couplings - Siceve couplings - Siceve couplings - Siceve couplings - Siceve couplings - Siceve couplings - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal (10,4m) - Per linear metre - Dipelaying work - Total (per l m) - No Pipelaying work - Total (per l m) - No Pipelaying work - Total (per l m) - No Pipelaying work - Siceve couplings - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal (10,4m) - Per linear metre - Dipelaying work - Total (per l m) - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying work - No Pipelaying	. ~							
- Overhead and profit (20%) Subtotal (97.0m) - Per linear metre - Pipelaying work Total (per 1m)  //02 Air Inlet Pipe DN 200 SP - SP fittings - Sleeve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (71.m) - Per linear metre - Pipelaying work Total (per 1m)  //03 Drain Pipe DN 150 SP - SP fittings - Sieve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (74.m) - Per linear metre - Minimal (20%) - Overhead and profit (20%) - Overhead an		v8	1,577	12,10		10.56		
Per linear metre	,			·				
Per linear metre							ì	
Pipelaying work   Total (per 1m)   m   1.0   1,078.00   96.82   1,574.00	1	l .	1.0					
Total (per 1m)		m	]		, -			
- SP fittings					1,078.00		1,574.00	
- SP fittings   kg   2,555   19.70   50,333.50   26.99   68,959.45   - Steeve couplings   kg   564   19.70   11,110.80   26.99   15,222.36   - Miscellaneous (5%)   12,903.30   17,678.18   - Prelinear metre   m   1.0   987.50   1,352.92   - Pipelaying work   m   1.0   987.50   1,352.92   - Pipelaying work   m   1.0   987.00   1,418.00    //03 Drain Pipe DN 150 SP   kg   1,218   19.70   23,994.60   26.99   32,873.82   - Steeve couplings   kg   296   19.70   5,831.20   26.99   7,989.04   - Miscellaneous (5%)   6,263.42   8,581.20   - Pipelaying work   m   1.0   797.89   1,093.15   - Pipelaying work   m   1.0   797.89   1,093.15   - Pipelaying work   m   1.0   797.89   1,093.15   - Pipelaying work   m   1.0   797.00   1,152.00    //04 Plant Water Pipe DN 100,125 SP   Seeve couplings   kg   195   19.70   3,841.50   26.99   3,346.76   - Miscellaneous (5%)   314.22   430.49   - Overhead and profit (20%)   1,319.70   1,808.06   - Subtotal (10.4m)   7,918.22   10,848.36   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.37   1,043.11   - Pipelaying work   m   1.0   761.30   1,096.00    //06 Filter Intet Gate 350 x 350   17,690   7,690   10,540   10,540   - Miscellaneous (5%)   0,000   0,000    //07 Filter Intet Gate 350 x 350   17,490   1,040   1,0540   - Miscellaneous (5%)   0,000   0,000    - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous (5%)   0,000   0,000   - Miscellaneous						~		
- Sleeve couplings   kg   564   19.70   11,110.80   26.99   15,222.36   3,072.22   4,209.09   12,903.30   17,678.18   106,069.08   12,903.30   17,678.18   106,069.08   1,352.92   1,352.92   1,352.92   1,352.92   1,352.92   1,352.92   1,352.92   1,352.92   1,352.92   1,3152.92   1,3	-	١. ا	<u>.</u>	ر ایسید	#0 ann ==		60.070 : 7	!
- Miscellaneous (5%) - Overhead and profit (20%) Subtotal (78.4m) - Per linear metre - Pipclaying work - Total (per lm)  //3 Drain Pipe DN 150 SP - SP fittings - Sleeve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (47.1m) - Per linear metre - Pipclaying work - Total (per lm)  //3 Drain Pipe DN 150 SP - SP fittings - Sleeve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (47.1m) - Per linear metre - Pipelaying work - Total (per lm)  //3 Plant Water Pipe DN 100,125 SP - SP fittings - Sleeve couplings - Sleeve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscel	, –	, - ,						
12,903.30   17,678.18   106,069.08   12,903.30   17,678.18   106,069.08   17,419.82   106,069.08   17,419.82   106,069.08   17,419.82   106,069.08   17,419.82   106,069.08   17,419.82   106,069.08   17,419.82   106,069.08   17,419.82   17,419.82   17,419.82   17,419.82   17,419.82   17,419.82   17,418.00   17,418.0		kg	564	19.70		26,991		
Subtotal (78.4m)				İ				
Per linear metre				!	· ·		,	1
Pipelaying work   Total (per 1m)   m   1.0   987.00   1,418.00			1.0	i	3			
Total (per lm)		i		 	70,,00		-	ļ
Algorithms				İ	987.00			
- SP fittings								
- Siceve couplings	/03 Drain Pipe DN 150 SP							
- Miscellaneous (5%) - Overhead and profit (20%) Subtotal (47.1m) - Per linear metre - Pipelaying work - Total (per 1m)  //O4 Plant Water Pipe DN 100,125 SP - SP fittings - Sleeve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Marcellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Marcellaneous (5%) - Gate with headstock, type C - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Gate installation - Gate installation - Miscellaneous (5%)	- SP fittings	kg	1,218	19.70	23,994.60			
- Overhead and profit (20%) Subtotal (47.1m) - Per linear metre - Pipelaying work - Total (per 1m)  //O4 Plant Water Pipe DN 100,125 SP - SP fittings - Sleeve couplings - Miscellaneous (5%) - Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Miscellaneous (5%) - Querhead (10.4m) - Per linear metre - Pipelaying work - Potal (per 1m)  //O6 Filter Inlet Gate 350 x 350 - Gate with headstock, type C - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Miscellaneous (5%) - Gate with headstock, type C - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal - Gate installation - T - Miscellaneous (5%) - Overhead and profit (20%) - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal - Gate installation - T - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal - Gate installation - T - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal - Gate installation - T - Miscellaneous (5%) - Overhead and profit (20%) - Subtotal - Gate installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Overhead installation - T - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Miscellaneous (5%) - Misc		kg	<b>2</b> 96	19.70	. 1	26.99	-	
Subtotal (47.1m)	, ,	1		Ì				
- Per linear metre - Pipelaying work Total (per 1m)    1.0				 				
Pipelaying work   Total (per 1m)   Tot			1.0	1		' <u>'</u>		
Total (per Im)	I I	1		į	/97.89			
/04 Plant Water Pipe DN 100,125 SP - SP fittings		IIIT	1.0	1	797 00			
- SP fittings	Total (per IIII)			l I		 	1,102.00	
- SP fittings	/04 Plant Water Pipe DN 100	,125	SP	,				
- Sleeve couplings	- SP fittings	kg	195	19.70	3,841.50	26.99	5,263.05	ĺ
- Overhead and profit (20%) Subtotal (10.4m) - Per linear metre - Pipelaying work - Pipelaying work - Cate with headstock, type C - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Gate installation - Gate installation - Gate installation - Coverhead and profit (20%) - Headstock installation - Coverhead and profit (20%) - Headstock installation - Pripelaying work - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Gate installation - T - T,590 - T,6				,	2,442.80	26.99	3,346.76	1
Subtotal (10.4m) - Per linear metre - Pipelaying work - Pipelaying work - Total (per 1m)  /06 Filter Inlet Gate 350 x 350 - Gate with headstock, type C - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Gate installation - Gate installation - Headstock installation - Total (10.4m) - Total (10	1		}	 		ļ		' l
- Per linear metre   m   1.0   761.37   1,043.11   53.81   Total (per 1m)   1.0   761.00   1,096.00	1 ' ' ' '			1	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
- Pipelaying work Total (per 1m)	1			į				
Total (per 1m) 761.00 1,096.00  /06 Filter Inlet Gate 350 x 350  - Gate with headstock, type C nr 1 7,690 7,690 10,540 10,540  - Miscellaneous (5%) 384.50 527.00  - Overhead and profit (20%) 1,614.90 2,213.40  Subtotal 9,689.40 13,280.40  - Gate installation nr 1 17.42 17.42 899.58 899.58  - Headstock installation nr 1 15.90 199.00 199.00	I			f 1	761.37	Í	-	
/06 Filter Inlet Gate 350 x 350  - Gate with headstock, type C nr 1 7,690 7,690 10,540 10,540  - Miscellaneous (5%) 384.50 527.00  - Overhead and profit (20%) 1,614.90 2,213.40  Subtotal 9,689.40 13,280.40  - Gate installation nr 1 17.42 17.42 899.58 899.58  - Headstock installation nr 1 15.90 15.90 199.00 199.00		m	1.0	] 	761.00	 		
- Gate with headstock, type C nr 1 7,690 7,690 10,540 10,540 527.00	1 otai (per 1m)		}	į	/01.00	j	1,096.00	
- Gate with headstock, type C nr 1 7,690 7,690 10,540 10,540 527.00	/06 Filter Inlet Cate 350 v 35	n						
- Miscellaneous (5%) - Overhead and profit (20%) - Subtotal - Gate installation - Headstock installation - Time Time Time Time Time Time Time Time	1 '		,	7 690	7 690	10.540 <sup>1</sup>	10 540	}
- Overhead and profit (20%) Subtotal - Gate installation - Headstock installation - Overhead and profit (20%) Subtotal - Gate installation - T - T - T - T - T - T - T - T - T - T		***	*	ا ۱		ا ب−حرب		1
Subtotal   9,689.40   13,280.40   - Gate installation   nr   1   17.42   17.42   899.58   899.58   - Headstock installation   nr   1   15.90   15.90   199.00   199.00	·		ļ			İ		ļ
- Gate installation   nr   1   17.42   17.42   899.58   899.58   - Headstock installation   nr   1   15.90   15.90   199.00   199.00				i	· · · · · · · · · · · · · · · · · · ·			<u> </u>
- Headstock installation   nr   1   15.90   15.90   199.00   199.00		nr	. 1	17.42	· · · · · · · · · · · · · · · · · · ·	899,58	1	
Total 9,722 14,378	- Headstock installation		1					
	Total			į	9,722		14,378	
		]				 		

#### C4. FILTER

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price	Amount	Unit Price	Amount	
/07 Wash Drain Gate 400 x 4  - Gate with headstock, type C  - Miscellaneous (5%)  - Overhead and profit (20%)  Subtotal  - Gate installation		1	8,620 18.18	431.00 1,810.20 10,861.20	11,810 957.37	11,810 590.50 2,480.10 14,880.60 957.37	
- Headstock installation Total	nr	1	15.90		199.00		
/08 & /09 DN 350mm Valve - Butterfly valve w/ headstock, type B - Miscellaneous (5%) - Overhead and profit (20%) Subtotal	nr	1	9,960	9,960 498.00 2,091.60 12,549.60	13,650	682.50 2,866.50 17,199.00	
- Valve installation - Headstock installation  Total	nr nr	1 1	15.90	15.90 12,565	1,318.09 199.00	1,318.09 199.00 18,716	
/10 DN 350mm Valve  - Butterfly valve with handwheel - Miscellaneous (5%) - Overhead and profit (20%) Subtotal	nr	1.	7,240	7,240 362.00 1,520.40 9,122.40	9,920	9,920 496.00 2,083.20 12,499.20	
- Valve installation  Total	nr	1		9,122	1,318.09	1,318.09 13,817	
/11 DN 200mm Valve - Sluice valve w/ headstock, type A - Miscellaneous (5%) - Overhead and profit (20%) Subtotal	nr	1	2,840	2,840 142.00 596.40 3,578.40		3,890 194.50 816.90 4,901.40	
- Valve installation - Headstock installation  Total	nr nr	1		3,578	740.12 103.32		
- Sluice valve w/ handwheel - Miscellaneous (5%) - Overhead and profit (20%) Subtotal	nr	1	1,240	1,240 62.00 260.40 1,562.40	1,700	1,700 85.00 357.00 2,142.00 740.12	
- Valve installation  Total	nr	1	-       	1,562	740.12	2,882	

#### C4. FILTER

Description	Unit	Quantity	Foreign Cui	rrency (US\$)	Local Curre	ency (Rs)	Remarks
-			Unit Price	Amount	Unit Price	Aniount	
/13 DN 150mm Valve - Sluice valve w/ handwheel - Miscellaneous (5%) - Overhead and profit (20%) Subtotal - Valve installation Total	nr nr	1	840    -  -  -	840 42.00 176.40 1,058.40 - 1,058	1,150 544.45	1,150 57.50 241.50 1,449.00 544.45 1,993	
/14 DN 150mm Valve Total				3,074		4,856	Refer to C1.4/06

## C5. WASTEWATER AND SLUDGE PONDS

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
· ·			Unit Price i	Amount	Unit Price	Amount	
C5.3 EQUIPMENT AND	MA	TERIA	LS				
/01 Stop-log for Inlet (per 1 s	et)				l L		
1) Stop-log			i	-	1		-
- Concrete, class F	m3	0.05	118.02	5.90	1,126.89	56.34	
- Formwork, finishing F2	m2	0.80	6.60	5.28	361.00	288.80	
- Reinforcement	kg	5.70	0.748	4.26	1.862	10.61	
Total of 1)			} 	15.44		355.75	
2) Metal work			1		 		
- Guide channel t=10mm	kg	103.00	0.63	64.89	9.49		
- Baseplate t=12mm	kg	23.00	0.63	14.49	9.49		
- H beam, 200x200x8x12	ton	0.31	619.5	192.05	8911.5		
- Chain block, 0.5 ton	nr	1	277.0	277.00	379.5		
Subtotal			1	548.42		4337.80	
- Miscellaneous (5%)				27.42	į	216.89	
- Overhead and profit (20%)		'	1	115.17	\	910.94	
Total of 2)				691.01	 	5465.63	
Total of 1) + 2)			-	706.45	i i f	5821.38	
/02 Stop-log for Outlet (per 1	set)				   		
1) Stop-log			į				
- Concrete, class F	m3	0.11	118.02	12.98	1,126.89		
- Formwork, finishing F2	m2	2.44	<b>6.</b> 60 <sup>1</sup>	16.10	361.00		
- Reinforcement	kg	13.30	0.748	9,95	1.862		
Total of 1)				39.03	į	1029.56	
2) Metal work							
- Guide channel t=10mm	kg	168.60	0.631	106.22	9,491		
- Baseplate t=12mm	kg	20.00		12.60	9.49		
- H beam, 200x200x8x12	ton	0.31	619.5	192.05			
- Chain block, 0.5 ton	nr	1	277.0	277.00	379.50		
Subtotal			I	587.86	ļ	4931.87	
- Miscellaneous (5%)			į	29.39	ļ	246.59	
- Overhead and profit (20%)				123.45		1035.69	
Total of 2)			1	740.70		6214.16	
Total of 1) + 2)			!	779.73	i 	7243.72	

## C5. WASTEWATER AND SLUDGE PONDS

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curre	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price i	Antount	
C5.4 PIPE WORK			1				
/01 Gate 300 x 300					1	ĺ	
- Gate with headstock, type C	nr	1	6,930	6,930	9,500	9,500	
- Miscellaneous (5%)			į	347	į	475	
- Overhead and profit (20%)			1	1,455	!	1,995	
Subtotal			l.	8,732	1	11,970	
- Gate installation	nr	1	16.82	16.82	884.29	884.29	
- Headstock installation	nr	1	15.90	15.90	199.00¦	199.00	
Total			 	8,764		13,053	
			l i				

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price		
C6.1 Raw Water Pipe							
/01 Pipe Laying Work, DN80	0 DI	P					
<ul> <li>Excavation, backhoe</li> </ul>	m3	745.2	2.28	1,699.06	12.14	9,046.73	
- Surplus soil disposal,	m3	73.5	3.48	255.78	19.40	1,425.90	
L=5.0km			ļ				•
- Backfilling, bulldozer	m3	671.7	1.50	1,007.55	20.04	•	
- Pipe laying work	m	132.6	2.78	368.63	49.58		
Subtotal			į	3,331.01	į	30,507.80	
- Straight pipe	ton	29.07	1,500.0	43,605.00	2,100.0		
- Fittings	ton	3.08	3,800.0	11,704.00	4,500.0		
- Miscellaneous (5%)			į	2,765.45		3,745.35	
- Overhead and profit (20%)			;	11,614.89	l I	15,730.47	
Subtotal			1 1	69,689.34		94,382.82	
Total			ĺ	73,020	j	124,890	
Per linear metre			<u>į</u>	550.68	į	941.86	
   /02 Pipe Laying Work, DN70	u 171	d					
- Excavation, backhoe	m3	65.1	2.28	148.43	12.14	790.31	
- Surplus soil disposal,	m3	8.3	3.481	28.88	19.40		
L=5.0km	1113	0.5	3,461	20.00	19.40	101.02	
- Backfilling, bulldozer	m3	56.8	1.50	85.20	20.04	1,138.27	
- Pipe laying work	m	18.7	2.60	48.62	45.78	-	
Subtotal		10.7	2.00	311.13	45.76   	2,945.69	
- Straight pipe	ton	3.18	1,500.0	4,770.00	2,100.0	-	
- Fittings	ton	0.59	3,800.0	2,242.00	4,500.0		
- Miscellaneous (5%)	1011	0.57	3,000.0	350.60	1,50010	466.65	
- Overhead and profit (20%)			!	1,472.52	İ	1,959.93	
Subtotal			į	8,835.12	į	11,759.58	
Total			f 1	9,146	 	14,705	
Per linear metre				489.09	 	786.36	
	1						
703 Pipe Laying Work, DN20	ō Dī	P(Scouri					
- Excavation, backhoe	m3	156.9	2.28	357.73	12.14		
- Backfilling, bulldozer	m3	156.9	1.50	235.35	20.04		
- Pipe laying work	m	71.8	į	-	36.71	-	
Subtotal				593.08		7,684.82	
- Straight pipe	ton	2.25	1,500.0	3,375.00	2,100.0		
- Fittings	ton	0.13	3,800.0	494.00	4,500.01		
- Miscellaneous (5%)			į	193.45	į	265.50	
- Overhead and profit (20%)			]	812.49	i	1,115.10	
Subtotal			1	4,874.94 5 469	l I	6,690.60 14,375	
Total			.	5,468 76.16	l I	200.21	!
Per linear metre			ļ <u>.</u>	70,10	į	200,21	
	<u> </u>						· · · · · · · · · · · · · · · · · · ·

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr		Remarks
·			Unit Price i		Unit Price	Amount	
/04 Pipe Laying Work, DN40	PE						
- Excavation	m3	30.2			12.14		
- Backfill, excavated material	m3	30.2	1.50		20.04		
- Pipe laying w/ material	m	75.2	7.05		5.14		
Total			ļ	644		1,358	
Per linear metre			!	8.56		18,06	
C6.2 Filtered Water Pipe							
/01 Pipe Laying Work, DN90	0 DI	P	i				
- Excavation, backhoe	m3	49.4	2.28	112.63	12.14	599,72	
- Surplus soil disposal,	m3	3.8	3.48		19.40	73,72	
- Backfilling, bulldozer	m3	45.6	1.50	68.40	20.04	913,82	
- Pipe laying work	nı	5.4	2.95		59.05		
Subtotal		5,,		210.19		1,906.13	i
- Straight pipe	ton	0		0		0	
- Straight pipe - Fittings	ton	1.4	3,800.0	-	4,500.0	·	
- Miscellaneous (5%)	1011	1.1	2,000.0	266.00	,,500,101	315.00	
- Overhead and profit (20%)			1	1,117.20		1,323.00	
Subtotal			1	6,703.20	1	7,938.00	
Total			į	6,913	İ	9,844	
Per linear metre				1280.26		1822.99	
/ /02 Pipe Laying Work, DN80	តី កិត្ត	D					
	t i	487.2	2.28	1,110.82	12.14	5,914.61	
- Excavation, backhoe	m3		3.48	-	19.40		
- Surplus soil disposal, 5km	m3	40.5	•		20.04		
- Backfilling, bulldozer	m3	446.7	1.50 2.78		49.58i		
- Pipe laying work Subtotal	m	73.2	2,701	2,125.30	47.30	19,281.43	
		15.65	1 500 0		2,100.0		
- Straight pipe	ton	15.65	1,500.0		4,500.0		
- Fittings - Miscellaneous (5%)	ton	4.41	3,800.0	16,758.00 2,011.65	4,500.0	2,635.50	
			1	8,448.93		11,069.10	
- Overhead and profit (20%) Subtotal			I	50,693.58	1	66,414.60	
Total				52,819	į	85,696	
Per linear metre			1	721.57		1170.71	
	_	<u> </u>	 	121.51	 		
/03 Pipe Laying Work, DN60	ō ĐI			<del></del>	<b></b>	<del></del>	
- Excavation	m3	527	2.28	·	12.14		
- Surplus soil disposal	пі3	32	3.48	111.36	19.40		
- Backfilling	m3	495	1.50	742.50	20.04		
- Pipe laying work	m	92.6	2.45	226.87	39.54	3,661.40	
Subtotal				2,282.29	,	20,599.78	
- Straight pipe	ton	13.23	1,500.0	19,845.00	2,100.0	27,783.00	
- Fittings	ton	2.93	3,800.0	11,134.00	4,500.0	13,185.00	
- Miscellaneous (5%)				1,548.95		2,048.40	
- Overhead and profit (20%)				6,505.59	ļ	8,603.28	
Subtotal			! !	39,033.54		51,619.68	
Total				41,316		72,219	
rer unear metre				446.18		779.91	
		l	·				

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
	<u>[</u>		Unit Price	Amount	Unit Price	Antount	
/04 Removal of Pipe, DN600	DIP		: 		į		
- Excavation	m3	1,160	2.28	2,644.80	12.14	14,082.40	
(incl. DN 450 RCP)	]		į		!	٠	
- Surplus soil disposal	m3	611	3.48	2,126.28	19.40	11,853.40	
(incl. DN 450 RCP)							
- Backfilling	m3	549	1.50	823.50	20.04	11,001.96	•
- Length of pipe	m.	110.7	0.80		13.15		
Total	ı		¦	5,684	i	38,393	
Per linear metre			 	51.35	1	346.82	
/05 Flowmeter and Valve CI	l 19 m F	\					
A. Earth Work	1 <i>4</i> 11111	1	; 		' 	ſ	
- Excavation	2.2	182	2.28	414.96	12.14	2,209.48	
1	m3	103	2.26 3.48i		19.40	-	
- Backfilling	m3 m3	79	1.50		20.04	•	
- Surplus soil disposal Subtotal		/9	7.50	892	20.04 <sub>)</sub>	5,791	
Subtotal				092		3,771	
B. Concrete Work					i		
- Concrete, Class A	m3	301	114.74	3,442.20	1,095.98	32,879.40	
- Concrete, Class B	nı3	0.3	111.46		1,065.74	319.72	
- Concrete, Class D	m3	1.6	104.22				
- Formwork, Type F1	m3	156	6.30				
- Reinforcing bars	ton	3.54	748.22		1,861.92	· ,	
Subtotal		,		7,274	_	95,025	:
				•		-	
C. Equipment & Materials			ļ !		]		
Precast concrete cover	nr	4	32.15	128.60	239.04	956.16	
- 300B x 1,690L x 100 T			1				
					İ		
D. Pipe Work (DN 800 DIP)	l '		0.50	1 F F 4	40.50	076.56	
- Pipe laying work	m	5.58	2.78		49.58		
- Straight pipe	ton	0.26	1500.00			1	
- Fittings	ton	1.35	3800.00		,		
- Flange Adaptor	kg	200	12.10		16.58	1	
Subtotal		1	] 	7,956		10,214	
D. Marat Wayle			į		i		1
E. Metal Work	], [	***	0.0	00.00	1 / 00	1 677 00	
- Ladder, L=4.64 m x 1 nr	kg	110	0.9		14.89	•	
- Manhole cover, dia 600mm	nr	1	269.40		369.08		
Subtotal			, , ,	368	İ	2,007	
F. Overhead and Others for	j r Iter	ms C. D s	nd E		i I		
- Miscellaneous (5%)			 !	422.61		658.84	
- Overhead and profit (20%)			i	1,774.94		2,767.13	
Subtotal				2,197.55		3,425.97	
			1	-	 	ļ	:
Total			į	18,815	İ	117,419	
		]	<u> </u>				

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price	Amount	
/06 Valve Chamber			ļ		1		
A. Earth Work			 			· •	
- Excavation	m3	60	2.28		12.14		
- Backfilling	n13	41	1.50		20.04	. 1	
- Surplus soil disposal	m3	19	3.48		19.40	ì	
Subtotal			l I	264	 	1,919	
					İ		
B. Concrete Work		0.3	11474	1 067 09	1005 001	10 100 61	
- Concrete, Class A	m3	9.3	114.74	-	1095.98		
- Concrete, Class B	п13	0.04	111.46		1065.74		
- Concrete, Class D	m3	0.5	104.22	Ï	981.85	1	
- Formwork, Type F1	m3	63	6.30	1	344.00		
- Reinforcing bars	ton	1.3	748.22		1861.92		
Subtotal			 	2,493	<b>!</b>	34,819	
O Bandwarant 0 Material			i		j		i
C. Equipment & Materials			32.15i	96.45	239.04i	717.12	
- Precast concrete cover	nr	3	32.131 1	90,43	239,041 1	/1/.12	
300B x 1,690L x 100 T			) 		 		
D. Pipe Work (DN 600 DIP)			 	i	 		i
- Pipe laying work	m	3.32	2,45	8.13	39.54	131.27	
- Straight pipe	ton	0.25	1,500.0		2,100.0		
- Straight pipe - Fittings	ton	0.20	3,800.0		4,500.0		
- Fluings - Flange adapter		137	12,10		16.58	3	
- Flange adapter Subtotal	kg	157	12,10	3,181	10,50	4,278	
Outtour				5,101	į	1,2.0	i
E. Metal Work					ļ	i	
- Ladder, L=3.6 m x 1 nr	kg	86	0.9	77.40	14.89 i	1,280.54	
- Manhole cover, ø600nm	nr	1	269.40		369.08		
Subtotal			1	346	1	1,650	
			ļ		į		
F. Overhead and Others for	Ite	ms C, D	ind E	•	<b>1</b>	ĺ	
- Miscellaneous (5%)				181.16	i I	332.22	
- Overhead and profit (20%)			į	760.89	į	1,395.34	'
Subtotal			!	942.05	 	1,727.56	
ent a t			1	7 AAA	Ì	, , , , o o l	
Total			] 	7,323	. <b>!</b>	45,109	
/07 DN 800 mm Valve							
	***		20 0001	20 000	20 5001	20 600	
- Butterfly valve	nr	1	20,880	20,880	28,600	28,600	
with handwheel				1 044 00	, , , , , , , , , , , , , , , , , , ,	1 420 00	
- Miscellaneous (5%)			1	1,044.00 4,384.80		1,430.00 6,006.00	
- Overhead and profit (20%)						36,036.00	
Subtotal		4	24.41	26,308.80 24.41	1899.66		ŧ
- Valve installation Total	nr	1	24.41 <u> </u>	26,333	ן 100יגגסד	37,936	
Total			į	20,0,00	t	27,3200	
		L			ا لــــــــــــــــــــــــــــــــــــ		

Local Curi Unit Price 0 15,480 0 1562.14 8 12.14 0 20.04	774.00 3,250.80 19,504.80 1,562.14 21,067	
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	1	(1+0.3)+0.29x3=
30 20 20 20 20 20 20 20 20 20 20 20 20 20	170.00  32.60  37  32.60  36  31.65  5.27  0.50  88  74  55  88  77  7 short pipe (I  - 240  170.00  240.00	170.00 43.35 136.23 136.23 136.23 136.23 14.67 14.67 14.67 14.67 15.60 0.36 0.87 13.1.65 0.16 15.5.27 36.89 14.5.62 15.80 9.83 16.80 9.83 17.90 45.62 17.90 45.62 17.90 164.39 18.90 164.39 19.90 164.39

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
	<u> </u>		Unit Price	Amount	Unit Price i	Amount	
3) Material							0.967
- Double flanged short pipe	nr	1	859.00	859.00	7013.00	7,013.00	*3
SP, DN 900 x 850L *5							0.86dx0.216≠
Subtota	ıļ,			859.00	] ;	7,013.00	0.186
					ļ		*4
4) Miscellaneous (5% of 1)+2	)+3)]		• •	43.04		372.67	0.038dx5.0hr
, ,	Ϊ Ί	!			ĺ	! 	x0.85x1/3=0.054
Total of 1 to 4	ı			903.90	!	7,826.15	0.038dx5.0hr
					ŀ		  x0.85=0.162
5) Overhead and profit (20%)			1	180.78		1,565.23	
Sy Overhead and proint (2070)			į	100.75	ļ	1,000.25	423kg@US\$2.03
Total of 1 to 3				1,084.68	1	9 391 37	423kg@Rs16.58
1000 01 100	1		!	1,004.00	l 1	2,024.57	125 Kg (g) 110 X 0.50
Total of A+B+C	.		i	1,407	į	11,923	!
Total of Arbre	'			1,407	1	11,525	1
C6.3 Accordated Pine Wo	11/2		<u>-</u>		<u> </u>		
C6.3 Associated Pipe Wo		D /Deelen	i Vada Main)		į		
/01 Pipe Laying Work, DN3					13.14	621.00	
- Excavation,	m3	52	2.28				
- Backfill	m3	52	1.50		1	•	
- Pipelaying	m	77.1	2.03		23.691	-	
Subtota		4.04	1 500 001	353.07	0.100.001	3,499.86	1
- Straight pipes	ton	4.31	1,500.00	· ·			
- Fittings	ton	1.25	3,800.00i		4,500.00i		
- Miscellaneous (5%)	]		j	560.75	!	733.80	
- Overhead and profit (20%)			1	2,355.15	i	3,081.96	; 
Subtota			!	14,130.90	1 . •	18,491.76	
Total			į	14,484	ļ į	21,992	
Per linear metre			i I	187.86		285.24	
 - = = =, = = = = = = = = = = = = = =			ا + = = = = ج ج ری		 		
/02 Pipe Laying Work, DN1	25 DI		Water Inle	t) [	į		
<ul> <li>Pipe laying work</li> </ul>	m	64.4		· -	28.96¦		<u>'</u>
Subtota			Ì	=	i i	1,865.02	
<ul> <li>Straight pipe</li> </ul>	ton	1.15	1,500.0	1,725.00	2,100.0		•
- Fittings	ton	0.28	4,900.0	1,372.00	6,700.0		
- Miscellaneous (5%)			İ	154.85	İ	214.55	
- Overhead and profit (20%)			ł	650.37	į	901.11	
Subtota			l i	3,902.22	! !	5,406.66	
Total	J 1		į	3,902	į	7,272	
Per linear metre			í 1	60.59	: 	112.91	ſ
			1		ŗ		·

	Description	Unit	Quantity	Foreign Cui	rrency (US\$)	Local Curr	Remarks	
Excavation,   m3   9   2.28   20.52   12.14   109.26	•		_					****
Backfill	/03 Pipe Laying Work, DN15	0 DI	P (Water	· Supply)				
Pipelaying   m	- Excavation,	m3	9	2.28	20.52	12.14	109.26	
Subtotal	- Backfill	m3	9	1.50	13.50	20.04	180.36	
Straight pipes	<ul> <li>Pipelaying</li> </ul>	m	14.5	31.50¦	456.75	31.19	452.26	
Fittings	Subtotal			į				
- Miscellaneous (5%) - Overhead and profit (20%) Subtotal Total Per linear metre    1,450.26   2,002.14   2,744     133.86   189.24		ton						
Coverhead and profit (20%)   Subtotal   Total   1,450.26   2,744   1,941   1,941   2,744   1,941   1,941   2,744   1,941   1		ton	0.14	4,900.00		6,700.00		
Subtotal Total Total Per linear metre				ļ				
Total Per linear metre	• • •	<u> </u>		i				
Per linear metre							· ·	
A		}		!				
Excavation	Per linear metre			i	133.86		189.24	
Excavation	704 Pine Laving Work, DN11	ő PÉ	l Pine (W	ater Suppl	·			
Backfill, excavated material   m3   59.7   1.50   89.55   20.04   1,196.39     Pipe laying w/ material   Total						12.14	724.76	
Pipe laying w/ material   Total   Per linear metre   Total   Total   Per linear metre   Total   Total   Per linear metre   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Per linear metre   Total   Total   Total   Total   Total   Total   Per linear metre   Total   Tot				,				
Total Per linear metre	-	l 1	[	1 1	1			
Per linear metre			101.0				·	
				;				
- Excavation   m3   58.6   2.28   133.61   12.14   711.40   - Backfill, excavated material   m3   58.6   1.50   87.90   20.04   1,174.34   - Pipe laying w/ material   m   139.0   14.11   1,961.29   18.28   2,540.92				 				
- Backfill, excavated material m3	/05 Pipe Laying Work, DN63	PΕ	Pipe (Wa	ter Supply	,			
- Pipe laying w/ material Total Per linear metre Total Per linear metre Total Per linear metre Total Per linear metre Total Total Per linear metre Total Total Total Total Per linear metre Total Tota	- Excavation	m3	58.6	2.28¦	133.61	12.14	711.40	
Concrete, Class A   m3   0.26   114.74   29.83   1095.98   284.95	- Backfill, excavated material	m3	58.6	1.50	87.90	20.04	1,174.34	
15.70   31.85	- Pipe laying w/ material	m	139.0	14.11	1,961.29	18.28	2,540.92	
Facavation					2,183	 	4,427	
- Excavation m3 3.4 2.28 7.75 12.14 41.28   - Surplus soil disposal, m3 0.6 3.48 2.09 19.40 11.64   - Backfill m3 2.8 1.50 4.20 19.21 53.79   - Concrete, Class A m3 0.26 114.74 29.83 1095.98 284.95   - Concrete, Class D m3 0.07 104.22 7.30 981.85 68.73   - Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95   - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81   - Sand fill m3 0.18 13.85 2.49 138.61 24.95   - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76   - Angle hose valve 950 nr 1 96.60 96.60 132.30 132.30	Per linear metre			j	15.70	ļ ,	31.85	
- Excavation m3 3.4 2.28 7.75 12.14 41.28   - Surplus soil disposal, m3 0.6 3.48 2.09 19.40 11.64   - Backfill m3 2.8 1.50 4.20 19.21 53.79   - Concrete, Class A m3 0.26 114.74 29.83 1095.98 284.95   - Concrete, Class D m3 0.07 104.22 7.30 981.85 68.73   - Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95   - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81   - Sand fill m3 0.18 13.85 2.49 138.61 24.95   - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76   - Angle hose valve 950 nr 1 96.60 96.60 132.30 132.30								
- Surplus soil disposal, m3 0.6 3.48 2.09 19.40 11.64 - Backfill m3 2.8 1.50 4.20 19.21 53.79 - Concrete, Class A m3 0.26 114.74 29.83 1095.98 284.95 - Concrete, Class D m3 0.07 104.22 7.30 981.85 68.73 - Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95 - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81 - Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve 650 nr 1 96.60 96.60 132.30 132.30	/06 Hydrant with Box			į				
- Backfill m3 2.8 1.50 4.20 19.21 53.79 - Concrete, Class A m3 0.26 114.74 29.83 1095.98 284.95 - Concrete, Class D m3 0.07 104.22 7.30 981.85 68.73 - Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95 - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81 - Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve 650 nr 1 96.60 96.60 132.30 132.30	- Excavation	m3	3.4	2.28¦				
- Concrete, Class A m3 0.26 114.74 29.83 1095.98 284.95 - Concrete, Class D m3 0.07 104.22 7.30 981.85 68.73 - Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95 - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81 - Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve 650 nr 1 96.60 96.60 132.30 132.30	- Surplus soil disposal,	m3	0.6	3.48	2.09			
- Concrete, Class D m3 0.07 104.22 7.30 981.85 68.73 - Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95 - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81 - Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve 650 nr 1 96.60 96.60 132.30 132.30	- Backfill	m3	2.8			l i		
- Formwork, Type F1 m2 4.72 10.00 47.20 545.54 2,574.95 - Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81 - Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve 650 nr 1 96.60 96.60 132.30 132.30	- Concrete, Class A	m3	0.26	114.74		1		,
- Reinforcing bars m2 15.1 0.7482 11.30 0.1862 2.81 - Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve \$650 nr 1 96.60 96.60 132.30 132.30	- Concrete, Class D	m3	0.07	104.22	7.30	981.85	68.73	
- Sand fill m3 0.18 13.85 2.49 138.61 24.95 - Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 - Angle hose valve 050 nr 1 96.60 96.60 132.30 132.30	- Formwork, Type F1	m2	4.72	10.00	47.20	545.54	2,574.95	
- Sand fill   m3   0.18   13.85   2.49   138.61   24.95	- Reinforcing bars	m2	15,1	0.7482	11.30	0.1862	2.81	
- Steel cover checkered 4.51 kg 15.2 1.03 15.72 0.708 10.76 Angle hose valve \$650 nr 1 96.60 96.60 132.30 132.30	. —	m3	0.18	13.85	2.49	138.61	24.95	
- Angle hose valve 050 nr 1 96.60 96.60 132.30 132.30		kg	15.2	1.03	15.72	0.708	10.76	
	- Angle hose valve ø50		1		96.60	132.30	132.30	
				I			3,206	
		]						

Description	Ünit	Quantity	ntity Foreign Currency (US\$)   Local Currency (Rs)		Remarks		
			Unit Price		Unit Price		
C6.4 DRAIN PIPE					<u> </u>		
/01 Pipe Laying Work, DN60	0 R	CP			į		
- Open-cut excavation,	m3	2,110	2.28	4,810.80	12.14	25,615.40	
backhoe, common soil		ŕ		·			
- Backfilling, bulldozer	nı3	1955	1.50	2,932.50	20.04	39,178.20	
- Surplus soil disposal	m3	155	3.48	539.40	19.40	•	
- Bedding	m3	62	10.23		105.35	· · ·	
- Pipelaying works	nı	243	2.45		64.62		
Subtotal				9,512		90,035	
- Pipe material, DN600 RCP	m	243	 	ĺ	ا 1,166.62 ا		
- Miscellaneous (5%)	""	210	ļ		1,100,00	14,174.43	
- Overhead and profit (20%)			i	-		59,532.62	
Subtotal				_		357,195.71	
Total(243m)			j	9,512	j	447,231	
Per linear metre	m	1	1	39.15		1840.46	
1		]	L I		L		
/02 Pipe Laying Work, DN45	ō R	P	+				
- Open-cut excavation,	m3	1,624	2.28	3,702.72	12.14	19,715.36	
backhoe, common soil			į	·	į	·	
- Backfilling, bulldozer	m3	1497	1.50	2,245.50	20.04	29,999.88	
- Surplus soil disposal	m3	127	3.48	441.96	19.40	,	
- Bedding	m3	64	10.23	654.72	105.35	,	
- Pipelaying works	m	284	2.18	619.12	51.65	14,668.60	
Subtotal				7,664	1	73,590	
- Pipe material, DN450 RCP	mı	284	į	· _	696.23		
- Miscellaneous (5%)	7		j	-	0,01,51	9,886.47	
- Overhead and profit (20%)		J	ļ	-	ļ	41,523.16	
Subtotal			ļ	-	1	249,138.94	
Total(284m)			i	7,664		322,729	
Per linear metre	m	1	) 	26.99		1136.37	
			<u> </u>		<u> </u>		
/03 Pipe Laying Work, DN30	ō Ro		; i				
- Open-cut excavation,	nı3	1,016	2.28	2,316.48	12.14	12,334.24	ļ
backhoe, common soil		1			<u> </u>		
- Backfilling, bulldozer	m3	957	1.50	1,435.50	20.04	19,178.28	
- Surplus soil disposal	m3	59	3.48	205.32	19.40	1,144.60	
- Crashed stone bedding	m3	39	10.23	398.97	105.35	4,108.65	
- Pipelaying works	m	208	1.94	403.52	40.00	8,320.00	
Subtotal			į	4,760	į	45,086	
- Pipe material, DN300 RCP	m	208		-	368.26	76,598.08	
- Miscellaneous (5%)		ĺ	- 1	-[	· · · · · · · · · · · · · · · · · · ·	3,829.90	
- Overhead and profit (20%)			1	-	1	16,085.60	
Subtotal		1	į	-	į	96,513.58	
Total(208m)			] 	4,760	; ;	141,599	
Per linear metre	ומ	1	]	22.88	1	680.77	
			į		į		

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
-			Unit Price	Amount	Unit Price i	Amount	
/04 Pipe Laying Work, DN20	0 DI	P			1		
- Pipelaying	m	5.1		-	36.71	187.22	
Subtotal				•	į	187.22	
- Straight pipe	kg	81.0	1.50	121.50	2.10	170.10	
- Fittings	kg	140.0	3.80	532.00	4.50 t	630.00	
- Miscellaneous (5%)			į	32.68	į	40.01	
- Overhead and profit (20%)				137.24	l I	168.02	
Subtotal			ļ	823.41	1	1,008.13	
Total			į	823	1	1,195	
Per linear metre	m	1	<u>i</u>	161.45	į	234.38	
705 Pipe Laying Work, DN22		,	1			c=0.04	
- Excavation	m3	56.0	2.28	127.68	,	679.84	
- Surplus soil disposal,	m3	3.2	3.48	11.14	19.40	62.08	
- Backfill, sand	m3	2.5	13.85	34.63	138.61	ì	
- Backfill, excavated material	n13	52.8	1.50	79.20	19.21	·	
- Pipe laying w/ material	nı	18.3	35.60 <sup>1</sup>	651.48	48.13	880.78	
Total				904	I	2,983	
Per linear metre			į	49.40	į	163.01	
/06 Pipe Laying Work, DN16	0 uP	VC					
- Excavation	m3	23.4	2.28	53.35	12.14 l	284.08	
- Surplus soil disposal,	m3	5.8	3.48	20.18	19.40	112.52	
- Backfill, sand	m3	4.9	13.85	67.87	138.61	679.19	
- Backfill, excavated material	m3	17.6	1.50	26.40	19.21	338.10	
- Pipe laying w/ material	m	43.1	22.10	952.51	32.34	1,393.85	
Total				1,120	ļ	2,807	
Per linear metre		!	i I	25.99	 	65.13	

Description	Unit	Description Unit Quantity Foreign Currency (US\$)   Local Currency (Rs)		ency (Rs)	Remarks		
·			Unit Price i		Unit Price i	Amount	
/09 Sluice Valve (ND 200mm)	Inst	allation,	1 set				
1) Labour			1	}	t		
- Plumber	m.d.	0.75	į	-	240.00	180.00	0.59+0.08x2
- Common labour	m.d.	1.70	 	-	170.00	289.00	1.54+0.08x2
Subtotal					<u> </u>	469.00	
2) Equipment			į		į		
- Sluice vave, DN 200mm	nr	1		1,240.00	1	1,700.00	
- Valve box, 230mm(ID)	nr	1	1	188.00	I   1	258.00	
hat type			ļ		ļ		
Subtotal				1,428.00		1,958.00	
3) Material		•	I				
- Reinforced concrete pipe	nr	2	. !	-	282.80	565.60	
DN 225mm x 1,000L					į		
Subtotal			i	-	' , [	565,60	
			1		l İ		
4) Miscellaneous (5% of 1+2+	3)		1	71.40	ļ	149.63	
Total of 1) to 4)		!	į	1,499.40	į	3,142.23	
Total of 1) to 4)			į	•	i	-	
Overhead and profit (20%)			) 1	299.88	 	628.45	
Total			!	1,799.28	] [	3,770.68	
			1	1	! •		
/11 Manhole (for 21 manhole					 	<u> </u>	
A. Earth Work	رة ا				1		
			į		į		
- Excavation, backhoe, common soil	m3	1394	2.28	3,178.32	12.14	16,923.16	
- Backfilling, manpower	m3	1219	1.501		20.04		
- Surplus soil disposal, 5km	m3	175	3.48		19.40	•	
- Bedding of crashed stone	m3	16	10.23		105.35		
Subtotal			;	5,780	,	46,433	
			1		I		
B. Concrete Work					 		
- Manhole base concrete,	m3	42	111.46	4,681.32	1065.74	44,761.08	
Class B, C 20/20							
- Blinding concrete,	m3	8	104.22	833.76	981.85	7,854.80	
Class D, C15/40			l I	ĺ			
- Invert Concrete,	m2	5	105.22	526.10	990.67	4,953.35	
Class E, C15/20	_			4 70 7 10	1	በር መደሳ ላላ	
- Formwork, Type F1	mi3	258	6.30			•	
- Reinforcing bars	ton	4	748.22				
- Mortar plastering (1:3)	m3	1.4	89.72		526.80	154,506	
Subtotal			!	10,785		124,200	
C. Manohole concrete block					· I		
- Concrete block, Type A	nr	18	69.11	1,243.98	1945.00	35,010.00	
- Concrete block, Type B	nr	66	70.09		2101.62		
- Iron step, 300L x 22ø	nr	220.00	15.30	,	20.96		
Subtotal		33,30	!	9,236	1	178,328	
				-	į		
					l		L

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price i	Amount	
D. Labour			1		1		
- Foreman	md	0.76	1	-	350 l	266.00	
- Operator	md	3.83	!	-	300¦	1,149.00	•
- Asst. operator	md :	0.65	į		220		
- Driver	md	1.5		-	240	360.00	,
- Skillful labour	md	5.44	1	-	240	1,305.60	
- Common labour	nıd	8.22		-	170	1,397.40	
Subtotal			1	0	1	4,621	
E. Equipment					]		
- Truck crane, 16 ton	l hr	21.7	15.40	334.18	42.20	915.74	
- Truck, 6 ton	hr	8.8	4.21	36.96	11.4	100.32	
Subtotal	1	0.0	""  	371		1,016	
TO Defende the			1		!		
F. Materials					i		
- Manhole cover (grey iron)		10	260.40	4 0 40 20	260.00	6 6 4 7 4 4	
600 mm in dia., waterproof	nr	18	269.40	4,849.20	369.08 0.361	6,643.44 80.89	
- Diesel oil	lit	224.7	0.521	116.84 23.38	1.65	16.01	
- Engine oil Subtotal	lit	9.7	2.41	1	1 1001	6,740	
Subtotat	i			4,989	i	0,740	
				2.00.00	j 	610.07	
G. Miscellaneous (5% of D, 1				268.03	i	618.87	
H. Overhead and profit (20	%)   			1,125.72		2,599.25	
Total of A to H		!		32,555	} }	394,863	

## C7. SITEWORK

Description	Unit	Quantity	Foreign Cu	rrency (US\$)	Local Curr	ency (Rs)	Remarks
			Unit Price i	Amount	Unit Price i	Amount	
C7.2 Road Work							
			1	!	1		
- Road pavement	m2	1024	50.53	51,742.72	455.03		
- R.C. Kerb gutter	m	388	60.57	23,501.16	1,338.96	519,516.48	
Total				75,244		985,467	
per m2				73.48	į	962.37	
			İ				
C7.4 R.C. L-Type Retaini	ng	Vall					
				i		ļ ,	
1) Earthwork			į				
- Open-cut excavation,	nı3	278	-	-	89.96	25,008.88	
manpower, common soil			 		!		
mixed basalt fragment					ļ		
- Backfilling, manpower	m3	143	0.05	7.15	28.18	4,029.74	
- Surplus soil disposal, 5km	m3	135	<b>3</b> .48	469.80	19.40	2,619.00	
- Crashed stone bedding	m3	31	10.23	317.13	105.35	3,265.85	ĺ
Subtotal				794.08	į	34,923.47	
			1 1				
2) Concrete work			 		l		
- Reinforced concrete, class A	m3	191	114.74	21,915.34			
- Formwork, Type F1	nı2	258	6.30	1,625.40	344.00	88,752.00	
- Formwork, Type F3	m2	258	6.90	1,780.20	379.00	97,782.00	
- Reinforcing bars	ton	11.1	748.22	8,320.21	1861.92	- I	
- Expansion joint, uPVC	nı	17	43.73	743.41	90.36	1,536.12	
300 x 7t							
Subtotal				34,384.56		418,106.85	
			İ				
3) Guard-rail setting	m	72	61.99	4,463.28	121.34	8,736.48	İ
			1 				
Total			 	39,641		461,766	

## C7. SITEWORK

Description	Unit	Quantity	Foreign Cur	rency (US\$)	Local Curre	ency (Rs)	Remarks
			Unit Price	Amount	Unit Price	Amount	
C7.5 Stone Masonry Reta	inin	g Wall			1		
1) Earthwork  - Open-cut excavation, manpower, common soil mixed basalt fragment  - Backfilling, manpower  - Surplus soil disposal, 5km  - Crashed stone bedding  Subtotal	m3 m3 m3	365 85 280 30	٠ .	4.25 974.40 306.90 1,285.55	1	32,835.40 2,395.30 5,432.00 3,160.50 43,823.20	
2) Concrete work - Foudation concrete, class D - Top concrete, class E - Formwork, Type F1 Subtotal	m3 m2	19 19 127	104.22 105.22 6.30	1,980.18 1,999.18 800.10 4,779.46	990.67 344.00	18,655.15 18,822.73 43,688.00 81,165.88	10 10 10 10 10 10
3) Stone masonry - Rubble stone masonry work Subtotal Total	, ,	419	7.58	3,176.02 3,176.02 9,241	214.16	89,733.04 89,733.04 214,722	

## APPENDIX B UNIT COST OF LOT III WORK

## UNIT COSTS OF LOT III WORK

I	Description	Applied Unit	Unit Cost F/C (US\$)	Unit Cost L/C (MRs)
Civi	l Engineering Works			
1.	Site cleaning	$m^2$	0.14	1.64
2.	Open-cut excavation,			
	bulldozer 21 ton,			
	common soil including	3	0.10	
2	basalt fragment	$m^3$	2.12	11.47
3.	Open-cut excavation,			
	backhoe 0.6 m <sup>3</sup> , common soil	$m^3$	2.28	12.14
4.	Open-cut excavation,	111	2.20	12.14
4.	rock, big-breaker	$m^3$	4.22	25.15
5.	Open-cut excavation,	111	7.22	23.13
٥.	manpower,			
	common soil including			
	basalt fragment	$\mathrm{m}^3$		89.96
6.	Open-cut excavation,			
	rock, manpower	$m^3$	11.65	169.78
7.	Embankment, bulldozer	$m^3$	2.82	26.32
8.	Backfilling with selected	_		
	material, manpower	$m_2^3$	1.50	20.04
9.	Backfilling, trench, manpowe		0.05	28.18
10.	Backfilling with sand	$m_3^3$	13.85	138.61
11.	Bedding of crushed stone	$m_3^3$	10.21	105.35
12.	Surplus soil disposal, L=5km	n m <sup>3</sup>	3.48	19.40
13.	Concrete work, class A,	$m^3$	114.79	1,096.02
14,	(C25/20) Concrete work, class B,	111	114.73	1,090.02
14,	(C20/20)	$m^3$	111.52	1,065.78
15.	Concrete work, class C,	111	111.52	1,005.70
15,	(C20/75)	$m^3$	107.54	1,012.14
16.	Concrete work, class D,	117	107.07	2,022.21
10,	(C15/40)	$m^3$	104.27	981.90
17.	Concrete work, class E,	•••	<b></b>	
_ ,	(C15/20)	$\mathrm{m}^3$	105.28	990.72
18,	Concrete work, class F,			
	(C30/10)	$m^3$	118.07	1,126.26
19.	Shotcrete work	$m^2$	12.23	58.40
20.	Formwork,	_		
	finishing type F1	$m^2$	6.30	344.00
21.	Formwork,	3		
	finishing type F2	$m^2$	6.60	361.00

Γ	Description	Applied	Unit Cost	Unit Cost
		Unit	F/C (US\$)	L/C (MRs)
22.	Formwork,	_		
	finishing type F3	$m^2$	6.90	379.00
23.	Mortar plastering, (1:2)	$\mathrm{m}^3$	99.74	585.60
24.	Mortar plastering, (1:3)	$m^3$	89.72	526.80
25.	Reinforcing bar work,			
	cold twist bars	ton	748.22	1,861.92
26.	Concrete block masonry wo	ork,		
	150 x 200 x 450	$m^2$	10.82	1,301.03
27.	Expansion joint,			·
	uPVC, 300 mm x 7 mm t	m	43.73	90.36
28.	Expansion joint (waterstop			
,0,	with protective cover)	m	26.88	56.34
29.	Expansion joint (elastic	-11	<b>40.00</b>	50.5
	filler, $t = 10 \text{ mm}$ )	$m^2$	13.86	33.60
80.	Expansion joint (elastic	111	15.00	55.00
ю.	filler, $t = 20 \text{ mm}$ )	$m^2$	27.72	58.86
	inter, t = 20 mm)	111	21.12	56.60
Equi	pment and Materials			
1.	Stop-log, timber plank	$\mathrm{m}^3$	31.22	1,510.52
32.	Baffle plate, timber board	$m^3$	3,380.92	41,967.48
3.	Effluent trough	nr	181.64	3,158.62
34.	Filter sand, effective grain			•
• • •	size of 1.0 mm and uniform	iitv		
	coefficient of 1.5 less	$m^3$	529.20	757.51
5.	Filter gravel, effective			
	grain size of 2.38 to 4.76 m	ım m³	507.78	739.25
<u> ipel</u>	aying Works			
	D' 1 ' '537.000 DI	<b>.</b>	2.05	#O 0#
6.	Pipelaying, DN 900 mm DI		2.95	59.05
7.	Pipelaying, DN 800 mm DI		2.78	49.58
8.	Pipelaying, DN 700 mm DI		2.60	45.79
9.	Pipelaying, DN 600 mm DI		2.45	39.54
0.	Pipelaying, DN 350 mm DI	P m	2.03	23.69
1.	Pipelaying, DN 300 mm DI	P m	1.94	20.77
2.	Pipelaying, DN 200 mm DI	P m	-	36.71
3.	Pipelaying, DN 150 mm DI		<u>-</u>	31.19
4.	Pipelaying, DN 125 mm DI		_	28.96
5.	Pipelaying, DN 350 mm SP			
	(in filter)	m	_	96.82
6.	Pipelaying, DN 200 mm SP			
٠.	(in filter)	m	·	65.62
7.	Pipelaying, DN 150 mm SP		-	05.02
′•	(in filter)		<u></u>	58.93
	(in micr)	m	<del>-</del>	20,53

Ī		Applied	Unit Cost	Unit Cost
48.		Unit	F/C (US\$)	L/C (MRs) 53.81
48. 49.	Pipelaying, DN 125 mm SP Pipelaying, DN 100 mm SP	m		33.81 34.63
	1 0	m	-	34.03
50.	Pipelaying, DN 80 mm SP	m	<del></del>	
<i>5</i> 1.	Pipelaying, DN 65 mm SP	m	_	29.65
52.	Pipelaying DN 225 mm uPV(		25 50	40 1 2
50	(including pipe material)	m	35.59	48.13
53.	Pipelaying DN 160 mm uPVC		22.10	22.24
ر د س	(including pipe material)	m	22.10	32.34
54.	Pipelaying DN 110 mm uPVC		11 11	20.00
	(including pipe material)	m	11.11	20.69
55.	Pipelaying DN 90 mm uPVC		7.40	17.00
	(including pipe material)	m	7.40	15.06
56.	Pipelaying DN 63 mm uPVC	;	<b>6 7</b> 0	
	(including pipe material)	m	3.58	12.41
<i>5</i> 7.	Pipelaying DN 50 mm uPVC	2		
	(including pipe material)	m	2.38	10.14
58.	Pipelaying DN 110 mm PEP			
	(including pipe material)	m	25.33	32.89
59.	Pipelaying DN 63 mm PEP			
	(including pipe material)	m	14.11	18.30
60.	Pipelaying DN 40 mm PEP			
	(including pipe material)	m	7.06	11.80
61.	Filter inlet pipe installation,			
	DN 350 mm stainless steel	nr	224.44	540.27
62.	Flush pipelaying GSP			
	DN 100 mm	m	52.18	89.53
63.	Flush pipelaying GSP			
	DN 65 mm	m	64.34	109.71
64.	Valve installation,			
	DN 800 mm	nr	24.41	1,899.66
65.	Valve installation,	•		
	DN 700 mm	nr	23.57	1,718.58
66.	Valve installation,			
	DN 600 mm	nr	20.29	1,562.14
67.	Valve installation,			
	DN 350 mm	nr	_	1,318.09
68.	Valve installation,			·
	DN 300 mm	nr	-	1,185.04
69.	Valve installation,			•
	DN 200 mm	nr	••••	740.12
70.	Valve installation,	<del></del>		
	DN 150 mm	nr	_	544.45
71.	Valve installation,			2 , , , , , ,
f	DN 100 mm	nr	· britis	460.03
	DIA 100 HIIII	111	<del></del>	TOUIDS

D	Description	Applied Unit	Unit Cost F/C (US\$)	Unit Cost L/C (MRs)
72.	Valve installation,			
	DN 75 mm	nr	_	438.86
73.	Hose-valve installation,			
	DN 63 mm	nr		341.59
<b>7</b> 4.	Sluice valve with box			•
	installation, DN 200 mm			
	(including valve)	set	1,799.28	3,770.68
75.	Air-valve installation,	•		
	DN 80 mm	nr	-	146.16
76.	Air-valve box installation			
	for DN 80 mm	nr	91.81	4,740.60
77.	Air-valve installation,			
	DN 25 mm			
	(including air-valve)	nr	535.50	879.79
78.	Valve box installation,			
	DN 50 mm to DN 200 mm	nr	31.93	1,381.79
79.	Gate installation,		2.2.	1 100 40
-	DN 800 mm	nr	24.24	1,400.53
80.	Gate installation,		10.60	4 000 00
0.4	500 x 500 mm	nr	19.69	1,088.22
81.	Gate installation,		10.10	067 27
00	400 x 400 mm	nr	18.18	957.37
82.	Gate installation,		17.40	900.50
00	350 x 350 mm	nr	17.42	899.58
83.	Gate installation,		16.00	994.30
0.4	300 x 300 mm	nr	16.82	884.29
84.	Headstock installation,			103.32
85.	(type A) Headstock installation,	nr	<b></b>	103.32
٥٥.	(type B and C)	nr	15.90	199.00
86.	Pipelaying,	ПГ	13.50	199.00
00.	DN 600 mm, RCP	m	2.45	64.62
87.	Pipelaying,	111	2.43	04.02
07.	DN 450 mm, RCP	m	2.18	51.65
88.	Pipelaying,	111	2.10	51.05
00.	DN 300 mm, RCP	m	1.94	40.00
89.	Manhole concrete block,	111	1,74	70.00
0).	type A	nr	69.13	1,945.01
90.	Manhole concrete block,	111	05.15	1,545.01
<i>7</i> 0.	type B	nr	70.10	2,101.62
	GPO B	111	70.10	M) LUI LUM
Meta	l Work			
01	Handrail start since	122	12.01	120 44
91. 92.	Handrail, steel pipe Ladder installation	m ka	12.91 0.90	138.44 14.89
74.	Laudel installation	kg	0.90	14.07

D	Description	Applied Unit	Unit Cost F/C (US\$)	Unit Cost L/C (MRs)
93.	Roof light installation	nr	434.29	1,291.88
,,,,	Roof light mountainen	•••	10 1120	1,221.00
Siten	<u>vork</u>			
94.	Subbase course, lower			
	layer, $t = 20$ cm	$m^2$	17.20	157.20
95.	Subbase course, upper			
	layer, $t = 5$ cm	$m^2$	11.80	108.00
96.	Levelling layer,	2		
	t = 3  cm	$m^2$	7.80	71.20
97.	Prime coat,	2	1.20	10.10
00	$1.2 \text{ l/m}^2$	$\frac{m^2}{2}$	1.30	12.10
98.	Asphalt pavement	$m^2$	10.30	94.80
99.	Road pavement (asphalt,			
	including subbase, prime coat, etc.)	$m^2$	50.53	455.03
100.	Footpaths	$m^2$	22.51	566.28
101.	Rubble work	$m^2$	7.58	214.16
102.	Kerb gutter installation,	111	7.50	217.10
102.	L-type	m	60.57	1,338.96
103.	Drain pit installation,	***	00.07	2,000.00
100.	600 x 600 x 1,000 mm	nr	156.73	3,375.86
104.	Fencing (removal and			-,-,-,-
20.0	restoration)	m	28.05	720.03
105.	Removing fence	m	1.60	97.93
106.	Fencing	m	26.45	622.10
107.	Removal of pipe,			
	DN 600 mm, DIP	m	0.80	13.15
108.	Removal of pipe,			
	DN 450 mm, RCP	m	0.74	16.74
109.	Guard-rail setting	m	61.99	121.34

	Remarks																				
	cy (Rs) Amount			0.12	0.50	0.13	0.38	1.13		0.12	0.12		0.04	0.01	0.05	1.30	0.07	1.37	0.27	1.64	
	Local Currency (Rs) Unit Price Amour			350.000	300.000	220.000	170.000			49.100			0.360	1.650							
	ncy (US\$) Amount			ı		i	1	•		0.04	0.04		90.0	0.01	0.07	0.11	0.01	0.12	0.02	0.14	
	Foreign Currency (US\$ Unit Price Amount									14.300			0.520	2.410							
7717	Quantity	E E		0.00034	0.00167	0.00058	0.00222			0.00253			0.11341	0.00454							
	Unit			m.d.	m.d.	m.d.	m.d.			hr			lit	lit							
	Description	1. SITE CLEANING per m2	our	тап	ator	Asst. operator	Common Labour	Sub-total	2) Equipment	Bulldozer, 11 ton	Sub-total	erials	el oil	Engine oil	Sub-total	Total of (1+2+3)	4) Miscellaneous (5%)	Total of (1+2+3+4)	Overhead and profit (20%)	Ŧ	
	Item No.	1. SITE CLE	1) Labour	Foreman	Operator	Asst.	Сош	-qnS	2) Equ	Bulk	-qnS	3) Materials	Diesel oil	Engi	-qnS	Tota	4) Misc	Tota	Ove	Total	

Remarks																				
Reı																				
cy (Rs) Amount			0.52	2.29	0.57	1.64	5.02		1.36	1.48	0.81	3.65		0.36	0.07	0.43	0.46	95.6	1.91	11.47
Local Currency (Rs) Unit Price Amour			350.000	300.000	220.000	270.000			95.400	40.700	21.400			0.360	1.650					
ancy (US\$)			ι	•	1	i	ı		0.40	0.43	0.24	1.07		0.52	0.10	0.62	0.08	1.77	0.35	2.12
Foreign Currency (US\$ Unit Price Amount	l								27.900	11.900	6.300			0.520	2.410					
Quantity	. 21t) per m3		0.00148	0.00762	0.00259	0.00608			0.01425	0.03636	0.03802			0.99203	0.03968					
Unit	LDOZER		m.d.	m.d.	m.d.	m.d.			Ħ	hr	hr			Lit	lit	lit	3)			
Description	2. OPEN-CUT EXCAVATION (BULLDOZER, 21t) per m3	1) Labour	Foreman	Operator	Asst. operator	Driver	Sub-total	2) Equipment	Bulldozer, 21t	Tractor shovel, 1.2 m3	Dumptruck, 8t	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.	2. OPEN-C	1) La	Foi	do	As	Dr	Su	2) Eq	Bu	Τ̈́	Du	Su	3) M	Di	En	Su	4) Mi	To	Ó	To

Remarks																			
cy (Rs)			0.33	1.41	0.36	3.82	5.92		1.22	1.89	3.11		0.52	0.09	0.61	0.48	10.12	2.02	12,14
Local Currency (Rs) Unit Price Amour			350.000	300.000	220.000	270.000			52.000	21.400			0.360	1.650					
ncy (US\$) Amount			ı	,	i	,	1		0.36	0.56	0.92		0.75	0.14	0.89	0.09	1.90	0.38	2.28
Foreign Currency (US\$ Unit Price Amount									15.200	900:9			0.520	2.410					
Quantity	er m3		0.00094	0.00471	0.00165	0.01416			0.02353	0.08850			1.43840	0.05750					
Unit	KHOE, pe		m.d.	m.d.	m.d.	m.ď.			hr	hr			lit	ΠŢ		<b>6</b>			
Description	OPEN-CUT EXCAVATION, BACKHOE, per m3	1) Labour	Foreman	Operator	Asst, operator	Driver	Sub-total	2) Equipment	Backhoe, 0.6 m3	Dump truck, 8 ton	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Total
tem No.	OPEN-C	1) La	Fo	do	Asi	Dri	Su	2) Eq	Ba	Du	Su	3) M:	Dį	Ēņ	Su	4) Mi	To	Õ	To

Remarks			15	32	36	70	)3		97	78	33	3.7		47	39	<del>2</del> 6	1.00	96	19	15
ncy (Rs) Amount			1.15	4.92	1.26	4.70	12.03		4.26	0.78	2.33	7.37		0.47	0.00	0.56	1.(	20.96	4.19	25.15
Local Currency (Rs) Unit Price Amour			350.000	300.000	220.000	270.000			52.000	9.500	21.400			0.360	1.650					
ency (US\$) Amount			•	•	1	•	1		1.25	0.61	99.0	2.54		0.68	0.13	0.81	0.17	3.52	0.70	4.22
Foreign Currency (US\$ Unit Price Amount									15.200	7.400	6.300			0.520	2.410					
Quantity			0.00328	0.01639	0.00574	0.01739			0.08200	0.08200	0.10870			1.31150	0.05250					
Unit	Per m3		m.d.	m.d.	m.d.	m.d.			hr	hr	hr			lit	lit		•			
Description	OPEN-CUT EXCAVATION, ROCK, Per m3	1) Labour	Foreman	Operator	Asst, operator	Driver	Sub-total	2) Equipment	Backhoe, 0.6 m3	Big breaker, 1,300 kg	Dump truck, 8t	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.	4. OPEN-C	1) La	Fo	do	As	Dri	Su	2) Eq	Ba	Bi.	Du	Su	3) M	Ö	En	Su	4) M	To	Ó	To

	Remarks										
	cy (Rs) Amount			71.40	71.40	ı	1	3.57	74.97	14.99	89.96
	Local Curren Unit Price			170.000							
	Foreign Currency (US\$) Local Currency (Rs) Unit Price Amount Unit Price Amoun	POWER, per m3		1		,	ı	•	ı		1
1	Unit Quantity	OIL), MANI		0.42000							,
	Unit	OMMONS		m3							
	Description	5. OPEN-CUT EXCAVATION, (COMMON SOIL), MANPOWER, per m3	1) Labour	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5%)	Total of (1+4)	Overhead and profit (20%)	Total
	Item No.	5. OPEN	1)			2)	3)	4			

	Remarks Remarks Numt			79.20	28.90	108.10		3.84	21.89	25.73		0.77	0.14	0.91	6.74	141.48	28.30	
	Local Currency (Rs) Unit Price Amount			240.000	170.000	7		12.800	19.900			0.360	1.650					
	ncy (US\$) Amount			ı	•	ı		1.56	6.38	7.94		1.11	0.20	1.31	0.46	9.71	1.94	
	Foreign Currency (US\$ Unit Price Amount		·					5.200	5.800			0.520	2.410					
*****	Quantity	G-HAMMI		0.33000	0.17000			0.30000	1.10000			2.13000	0.08500					
	Unit	K BY LE		m.d.	m.d.			hr	hr			Iit	lit		_			
	Description	6. OPEN-CUT EXCAVATION, (ROCK BY LEG-HAMMER), per m3	our	Skilful labour	Common labour	Sub-total	2) Equipment	Leg-hammer, 30 kg	Air-compressor, 5.0 m3/min	Sub-total	erial	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	
	Item No.	6. OPEN-CU	1) Labour	Skilf	Com	-qnS	2) Equ	Leg-	Air-c	-qnS	3) Material	Dies	Engi	Sub-	4) Misc	Tota	Ove	

Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Labour   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price Amount   Unit Price   Unit Price Amount   Un	Item No. Description	ption Unit	t Quantity	Foreign Currency (US\$	:y (US\$)	Local Currency (Rs)	cy (Rs)	Remarks	
1.       0.00193       -       350.000         1.       0.01041       -       300.000         1.       0.00339       -       270.000         1.       0.01416       -       240.000         1.       0.00241       -       170.000         1.       0.00241       -       170.000         1.       0.00850       8.000       0.34       95.400         2.       0.03636       11.900       0.43       40.700         3.       0.03636       11.900       0.43       40.700         4       0.02700       0.500       0.01       1.700         5       0.03780       0.520       0.61       0.620         6       0.04728       2.410       0.11       1.650         1       0.04728       2.410       0.11       1.650				Unit Price A	mount	Unit Price	Amount		
m.d. 0.00193 - 350,000 m.d. 0.01041 - 300,000 m.d. 0.01041 - 300,000 m.d. 0.01416 - 220,000 m.d. 0.01416 - 220,000 m.d. 0.02700 - 270,000 labour m.d. 0.02700 - 240,000 labour m.d. 0.00241 - 170,000 labour m.d. 0.00251 - 170,000 labour m.d. 0.00252	KMENT, BU	LLDOSER, per m3							
m.d. 0.00193 - 350.000  m.d. 0.01041 - 300.000  m.d. 0.00339 - 220.000  m.d. 0.01416 - 270.000  m.d. 0.02700 - 240.000  our m.d. 0.00241 - 170.000  tom d. 0.02700 0.34 95.400  litton hr 0.08850 8.000 0.71 27.400  g hr 0.0365 11.900 0.43 40.700  g hr 0.03780 0.500 0.01 1.700  lit 0.03780 0.910 0.03 0.620  lit 0.03780 0.910 0.03 0.620  lit 0.03780 0.910 0.03 0.620  lit 0.04728 2.410 0.11 1.650	abour								
r m.d. 0.01041 - 300.000 r m.d. 0.00339 - 220.000 m.d. 0.01416 - 270.000 r m.d. 0.02700 - 270.000 our m.d. 0.0241 - 170.000 litton hr 0.08850 8.000 0.71 27.400 sl, 1.2 m3 hr 0.03636 11.900 0.43 40.700 g hr 0.03700 0.500 0.01 1.700 lit 0.03780 0.510 0.03 0.620 lit 0.03780 0.510 0.03 lit 0.04728 2.410 0.11 1.650	oreman	m.d			1	350.000	89.0		
r m.d. 0.00339 - 220.000 m.d. 0.01416 - 270.000 our m.d. 0.0241 - 240.000 our m.d. 0.00241 - 170.000 r ton hr 0.01206 27.900 0.34 95.400 r ton hr 0.03850 8.000 0.71 27.400 r ton hr 0.03636 11.900 0.43 40.700 g hr 0.03780 0.500 0.61 0.360 lit 0.03780 0.910 0.03 0.620 lit 0.04728 2.410 0.11 lit 0.04728 2.410 0.11 lit 0.04728 2.410 0.11	perator	m.d			1	300.000	3.12		
r m.d. 0.01416 - 270.000  our m.d. 0.02700 - 240.000  ltion hr 0.01206 27.900 0.34 95.400  el, 1.2 m3 hr 0.03636 11.900 0.01 1.700  g hr 0.02700 0.500 0.01 1.700  lit 1.18196 0.520 0.61 0.360  lit 0.03780 0.910 0.03 0.620  lit 0.04728 2.410 0.11 1.650  list 0.04728 2.410 0.11  lit 0.04728 0.11	sst, operator	b.m			•	220.000	0.75		
I m.d. 0.02700 - 240.000  our m.d. 0.00241 - 170.000  I ton hr 0.01206 27.900 0.34 95.400  Il ton hr 0.03636 11.900 0.43 40.700  El, 1.2 m3 hr 0.02700 0.500 0.01 1.700  B hr 0.02700 0.500 0.01 1.700  Iit 1.18196 0.520 0.61 0.360  Iit 0.03780 0.910 0.03 0.620  Iit 0.03780 0.910 0.03  O.71 1.650  Iit 0.04728 2.410 0.11 1.650	river	m.d			•	270.000	3.82		
- 170.000  1	cilful labour	m.d			1	240.000	6.48		
11 ton hr 0.01206 27.900 0.34 95.400 11 ton hr 0.08850 8.000 0.71 27.400 11,12 m3 hr 0.02700 0.500 0.01 1.700  g hr 0.02700 0.500 0.01 1.700 1it 1.18196 0.520 0.61 0.360 1it 0.03780 0.910 0.03 0.620 1it 0.04728 2.410 0.11 1.650	ommon labour	p.m			•	170.000	0.41		
ton	ıb-total				ı		15.26		
21 ton hr 0.01206 27.900 0.34 95.400 vel, 1.2 m3 hr 0.08850 8.000 0.71 27.400 vel, 1.2 m3 hr 0.02700 0.500 0.01 1.700 hr 0.027700 0.500 0.01 1.700 lit 1.18196 0.520 0.61 0.03 0.620 lit 0.04728 2.410 0.11 1.650 0.75 0.11	quipment								
kg hr 0.08850 8.000 0.71 27.400 vel, 1.2 m3 hr 0.03636 11.900 0.43 40.700 kg hr 0.02700 0.500 0.01 1.700 1.42 iit 1.18196 0.520 0.61 0.360 1it 0.03780 0.910 0.03 0.620 1it 0.04728 2.410 0.11 1.650 0.75	ulldozer, 21 tor		0.01206	27.900	0.34	95.400	1.15		
vel, 1.2 m3       hr       0.03636       11.900       0.43       40.700         kg       hr       0.02700       0.500       0.01       1.700         1.49       1.49       1.49       1.700         lit       1.18196       0.520       0.61       0.360         lit       0.03780       0.910       0.03       0.620         lit       0.04728       2.410       0.11       1.650         cons (5% of 1+2+3)       0.11       0.75	ump truck, 11 i		0.08850	8.000	0.71	27.400	2.42		
kg hr 0.02700 0.500 0.01 1.700 1.49  lit 1.18196 0.520 0.61 0.360 lit 0.03780 0.910 0.03 0.620 lit 0.04728 2.410 0.11 1.650 0.75	ractor shovel, 1		0.03636	11.900	0.43	40.700	1.48		
1.49 lit 1.18196 0.520 0.61 0.360 lit 0.03780 0.910 0.03 0.620 lit 0.04728 2.410 0.11 1.650 0.75 0.75	amper 60 kg	hr	0.02700	0.500	0.01	1.700	0.05		
lit 1.18196 0.520 0.61 0.360 lit 0.03780 0.910 0.03 0.620 lit 0.04728 2.410 0.11 1.650 0.75 0.75	ub-total				1.49		5.10		
lit 1.18196 0.520 0.61 0.360 lit 0.03780 0.910 0.03 0.620 lit 0.04728 2.410 0.11 1.650 0.75	<b>Aaterials</b>								
lit 0.03780 0.910 0.03 0.620 lit 0.04728 2.410 0.11 1.650 0.75	iesel oil	lit	1.18196	0.520	0.61	0.360	0.43		
lit 0.04728 2.410 0.11 1.650 0.75 0.75	asoline	lit	0.03780	0.910	0.03	0.620	0.02		
0.75	ingine oil	lit	0.04728	2.410	0.11	1.650	0.08		
0.11	ub-total				0.75		0.53		
	£ 5000 11000 1000 1000 1000 1000 1000 10	(C.C. 19. 19.1)			, ,		100		
77:0	Miscellaneous	(5% 01 1+2+5)			0.11		1.04		

Remarks			
ency (Rs)	21.93	4.39	26.32
Local Currency (			
Foreign Currency (US\$)	`	0.47	2.82
Unit Quantity			
Unit			
Description	Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.	L		I

cy (Rs) Remarks			0.65	3.05	0.71	2.00	6.48	0.41	13.30		1.20	0.99	0.05	2.24		0.28	0.04	0.04	0.36	
Local Currency (Rs)			350.000	300.000	220.000	270.000	240.000	170.000			25.900	21.400	1.700			0.360	0.620	1.650		
ancy (US\$)	13		•	1	ı	1	•	1	ı		0.35	0.29	0.01	0.65		0.41	90.0	0.07	0.54	
Foreign Currency (US\$	VPOWER, per m										7.600	6.300	0.500			0.520	0.910	2.410		
Quantity	RIAL, MAN		0.00185	0.01018	0.00324	0.00741	0.02700	0.00241			0.04630	0.04630	0.02700			0.78704	0.06481	0.02703		
Unit	DMATE		m.d.	m.d.	m.d.	m.d.	m.d.	m.d.			hr	hr	hr			lit	lit	lit		
Description	8. BACKFILLING, WITH SELECTED MATERIAL, MANPOWER, per m3	1) Labour	Foreman	Operator	Asst, operator	Driver	Skilful labour	Common labour	Sub-total	2) Equipment	Tractor shovel, 0.6 m3	Dump truck, 8 ton	Tamper, 60 kg	Sub-total	3) Materials	Diesel oil	Gasoline	Engine oil	Sub-total	
Item No.	8. BACKE	1) L	Fo	O	Ą	Di	Š	ŏ	Sī	2) Ec	Tr	Q	Te	Š	3) M	Ō	Ÿ	Ē	S	;

Remarks				
ncy (Rs)	Amount	16.70	3.34	20.04
Local Currency (Rs)	Unit Price Amount			
rency (US\$)	Amount	1.25	0.25	1.50
Foreign Currency (US\$)	Unit Price Amount			
Unit Quantity				
Unit				
Description		Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.		To	Ó	To

			*****					
Item No.	Description	Unit	Quantity	Foreign Currency (US\$)	ncy (US\$)	Local Currency (Rs)	cy (Rs)	Remarks
0 BACKEILL	O BACKEII I INC TRENCH MANDAWED 22. 23	WED	nor m2					
Z. Devenience	ING. INENCII, MANTO	V 0.0	<u> </u>					
1) Labour	ır							
Skilful	Skilful labour	m.ď.	0.02700		•	240.000	6.48	
Сошп	Common labour	m.d.	0.09300			170.000	15.81	
Sub-total	ital						22.29	
2) Equipment	ment							
Татре	Tamper, 60 kg	hr	0.02700	0.500	0.01	1.700	0.05	
Sub-total	ıtal				0.01		0.05	
3) Materials	ials							
Gasoline	ne	lit	0.03780	0.910	0.03	0.620	0.02	
Engine oil	oil	ij	0.00150	2.410	0.00	1.650	0.00	
Sub-total	tal				0.03		0.02	
4) Misce	4) Miscellaneous (5% of 1+2+3)				0.00		1.12	
Total (	Total of (1+2+3+4)				0.04		23.48	
Overh	Overhead and profit (20%)				0.01		4.70	
Total					0.05		28.18	

Remarks																		
cy (Rs) Amount		6.48	5.10	2.00	13.58		0.99	0.05	1.04		95.20	0.16	0.03	95.39	5.50	115.51	23.10	138.61
Local Currency (Rs) Unit Price Amour		240.000	170.000	270.000			21.400	1.700			95.200	0.360	1.650					
ncy (US\$) Amount		ı	1	ı	1		0.29	0.01	0.30		10.42	0.23	0.04	10.69	0.55	11.54	2.31	13.85
Foreign Currency (US\$ Unit Price Amount							6.300	0.500			10.420	0.520	2.410					
Quantity		0.02700	0.03000	0.00740			0.04630	0.02700			1.00000	0.43520	0.01740					
Unit		m.d.	m.d.	m.d.			hr	μ			m3	Ħ	lit					
Item No. Description	10. BACKFILLING WITH SAND 1) Labour	Skilful labour	Common labour	Driver	Sub-total	2) Equipment	Dump truck, 8 ton	Tamper, 60 kg	Sub-total	3) Material	Sand	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Total

Unit
m.d. 0.02700
m.d. 0.03000
m.d. 0.00740
0.04630
0.02700
1.00000
0.43520
0.01740

Remarks																			
R																			
cy (Rs) Amount			99.0	3.12	0.75	4.32	0.34	9.21		1.48	2.74	1.15	5.37		0.69	0.13	0.82	0.77	16.17
Local Currency (Rs) Unit Price Amour			350.000	300.000	220.000	270.000	170.000			40.700	27.400	95.400			0.360	1.650			
ncy (US\$) Amount			1	•	•	1	1	•		0.43	0.80	0.34	1.57		1.00	0.19	1.19	0.14	2.90
Foreign Currency (US\$ Unit Price Amount										11.900	8.000	27.900			0.520	2.410			
Quantity	. m3		0.00193	0.01041	0.00339	0.01600	0.00200			0.03636	0.10000	0.01206			1.91400	0.07700			
Unit	km per		m.d.	m.d.	m.d.	m.d.	m.d.			hr	hr	hr			lit	lit			
Description	12. SURPLUS SOIL DISPOSAL, L=5.0 km per m3	1) Labour	Foreman	Operator	Asst, operator	Driver	Common labour	Sub-total	2) Equipment	Tractor shovel, 1.2 m3	Dump truck, 11 ton	Bulldozer, 21 ton	Sub-total	3) Material	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)
Item No.	12. SURPL	1) La	For	do	As	Dri	ටි	Su	2) Eq	II	Du	Bu	Su	3) ME	Die	E	Su	4) Mi	To

Semarks			
Rem			
ency (Rs)	Amount	3.23	19.40
Local Currency (Rs)	Unit Price		
Foreign Currency (US\$)	Unit Price Amount	0.58	3.48
Foreign Cui	Unit Price		
Unit Quantity			
Unit			
Description		Overhead and profit (20%)	Total
Item No.		0	Ĺ

Unit	Quantity	Foreign Curren Unit Price	lcy (US\$)	Local Currer Unit Price	ncy (Rs) Amount	Remarks	
A. per m3							
m.d.	0.02300		1	350.000	8.05		
m.d.	0.10000		•	240.000	24.00		
m.d.	0.10000		1	170.000	17.00		
m.d.	0.01600		ı	300.000	4.80		
m.d.	0.00600		1	220.000	1.32		
			1		55.17		
hr	0.09300	15.400	1.43	42.200	3.92		
hr	0.09300	5.600	0.52	19.300	1.79		
h	0.09300	1.800	0.17	6.200	0.58		
			2.12		6.29		
m3	1.00000	88.400	88.40	808.000	808.00		
Ħ	0.72500	0.520	0.38	0.360	0.26		
#	0.12100	0.910	0.11	0.620	0.08		
1:1	0.03600	2.410	0.09	1.650	90.0		
			88.98		808.40		
-2+3)			4.56		43.49		
	1 No. Description Unit  CONCRETE WORK, CLASS A, per m3  1) Labour Foreman  Skilful labour Common labour  Roberator  Asst. operator  Asst. operator  Common labour  m.d.  Asst. operator  M.d.  Sub-total  3) Materials  Ready-mixed concrete, Class A, C25/20  m3  Diesel oil Engine oil Sub-total  1it  Sub-total  Sub-total  3) Materials  Ready-mixed concrete, Class A, C25/20  m3  Diesel oil Engine oil Sub-total  4) Miscellaneous (5% of 1+2+3)		1 Quantity 1. 0.02300 1. 0.10000 1. 0.10000 1. 0.01600 1. 0.09300 0.09300 0.09300 0.09300 0.09300 0.09300 0.09300	1 Quantity Foreign Currency Unit Price Am Unit Price Am 0.02300 Unit Price Am 0.100000 Unit Price Am 0.100000 Unit Price A	1 Quantity Foreign Currency (US\$)  1. 0.02300  2. 0.10000  3. 0.10000  4. 0.00500  5. 0.00500  7. 0.09300  7. 0.09	1 Quantity Foreign Currency (US\$) Local Currency (R Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Unit Price Amount Unit Unit Price Amount Unit Price Amount Unit Price Amount Unit Price Amount Unit Unit Unit Unit Price Amount Unit Price Amount Unit Unit Unit Unit Unit Unit Unit Un	1 Quantity Foreign Currency (US\$) Local Currency (Rs)  1. 0.02300  2. 0.10000  3. 0.10000  4. 0.01600  1. 0.00600  1. 0.00600  1. 0.00600  1. 0.0093

Remarks				
Local Currency (Rs)	Unit Price Amount	913.35	182.67	1,096.02
Foreign Currency (US\$) Local Currency (Rs)	Unit Price Amount	95.66	19.13	114.79
Quantity				
Unit Qu				
Description		Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.		Ţ	0	Ĩ

Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ancy (US\$) Amount	Local Currency (Rs)	icy (Rs) Amount	Remarks
14. CONCRETE WORK, CLASS B. per m3	ser m3						
	m.d.	0.02300		•	350.000	8.05	
Skilful labour	m.d.	0.10000		ı	240.000	24.00	
Common labour	m.d.	0.10000		ı	170.000	17.00	
Operator	m.d.	0.01600		1	300.000	4.80	
Asst. operator	m.d.	0.00600		ı	220.000	1.32	
Sub-total				ı		55.17	
2) Equipment							
Truck crane, 16 ton	hr	0.09300	15.400	1.43	42.200	3.92	
Concrete bucket, 0.5 m3	hr	0.09300	5.600	0.52	19.300	1.79	
Vibrator	hr	0.09300	1.800	0.17	6.200	0.58	
Sub-total				2.12		6.29	
3) Materials							
Ready-mixed concrete,							
Class B, 20C/20	m3	1.00000	85.800	85.80	784.000	784.00	
Diesel oil	ŢŢ.	0.72500	0.520	0.38	0.360	0.26	
Gasoline	lit	0.12100	0.910	0.11	0.620	0.08	
Engine oil	Ħ	0.03600	2.410	0.00	1.650	90.0	
Sub-total				86.38		784.40	
4) Miscellaneous (5% of 1+2+3)	6			4.43		42.29	

Remarks			
ency (Rs) Amount	888.15	177.63	1,065.78
Local Currency (Rs) Unit Price Amount			
Foreign Currency (US\$) Unit Price Amount	92.93	18.59	111.52
Foreign Cur Unit Price			
Unit Quantity			
Unit			
Description	Total of (1+2+3+4)	Overhead and profit (20%)	[a]
Item No.	Tot	√O	Total

0.06	756.38 40.16
1.650	
0.08	83.34 4.27
2.410	
0.03400	
lit d	3)
Engine oil	Sub-total  4) Miscellaneous (5% of 1+2+3)
	lit 0.03400 2.410 0.08 1.650

Remarks				
ency (Rs)	Amount	843.45	168.69	1,012.14
Local Currency (Rs)	Unit Price			
Foreign Currency (US\$)	Unit Price Amount	89.62	17.92	107.54
Unit Quantity				
Unit				
No. Description		Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.				

	1 1	Outstitus	Economic Distriction	(4)11/	1 000	(00)	Demonstra	
neni ivo. Description	TIIO	Qualitity	Unit Price Amount	Amount	Unit Price Amour	cy (RS) Amount	Kemarks	
16. CONCRETE WORK, CLASS D. per m3	D, per m3							
1) Labour								
Foreman	m.d.	0.02300		1	350.000	8.05		
Skilful labour	m.d.	0.07000		ı	240.000	16.80		
Common labour	m.d.	0.06000		•	170.000	10.20		
Operator	m.d.	0.01600		1	300.000	4.80		
Asst. operator	m.d.	0.00500		1	220.000	1.10		
Sub-total				ı		40.95		
2) Equipment								
Truck crane, 16 ton	hr	0.08800	15.400	1.36	42.200	3.71		
Concrete bucket, 0.5 m3	hr	0.08800	5.600	0.49	19.300	1.70		
Vibrator	h	0.08800	1.800	0.16	6.200	0.55		
Sub-total				2.01		5.96		
3) Materials								
Ready-mixed concrete,								
Class D, 15C/40	m3	1.00000	80.200	80.20	732.000	732.00		
Diesel oil	III.	0.68600	0.520	0.36	0.360	0.25		
Gasoline	lit	0.11400	0.910	0.10	0.620	0.07		
Engine oil	lit	0.03400	2.410	0.08	1.650	90.0		
Sub-total				80.74		732.38		
4) Miscellaneous (5% of 1+2+3)	2+3)			4.14		38.96		
	()					;		

Remarks				
ency (Rs)	Amount	818.25	163.65	981.90
Local Currency (Rs	Unit Price			
Foreign Currency (US\$)	Unit Price Amount	86.89	17.38	104.27
Foreign Cu	Unit Price			
Unit Quantity				
 Unit				
Description		Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.			0	<b>—</b>

Remarks																				
		8.05	16.80	10.20	.80	1.10	40.95		.71	1.70	0.55	5.96			.00	0.25	0.07	90.0	38	39.31
cy (Rs) Amount		∞i	16	10	4	<del>,</del> ₹	40		κi	<del>,</del>	0	KV			739.00	0	0	0	739.38	39
Local Currency (Rs) Unit Price Amour		350.000	240.000	170.000	300.000	220.000			42.200	19.300	6.200				739.000	0.360	0.620	1.650		
ncy (US\$)		1	ı	1	•	•	ſ		1.36	0.49	0.16	2.01			81.00	0.36	0.10	0.08	81.54	4.18
Foreign Currency (US\$ Unit Price Amount									15.400	5.600	1.800				81.000	0.520	0.910	2.410		
Quantity		0.02300	0.07000	0.06000	0.01600	0.00500			0.08800	0.08800	0.08800				1.00000	0.68600	0.11400	0.03400		
Unit	.ш3	m.d.	m.d.	m.d.	m.d.	m.d.			h	hr	hr				m3	lit	ij	lit		
Item No. Description	17. CONCRETE WORK, CLASS E, per m3		bour	Common labour	Operator	Asst. operator	Sub-total	2) Equipment	Truck crane, 16 ton	Concrete bucket, 0.5 m3	Vibrator	Sub-total	3) Materials	Ready-mixed concrete,	Class E, 15C/20	Diesel oil	Gasoline	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)

Remarks				
ency (Rs)	Amount	825.60	165.12	990.72
Local Curr	Unit Price	•		
rency (US\$)	Unit Price Amount Unit Price Amount	87.73	17.55	105.28
Foreign Cur	Unit Price			
Quantity				
Unit Qu				
Description		Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.		[	J	<u>~</u>

Local Currency (Rs) Remarks Unit Price Amount			350.000 8.05	240.000 24.00	170.000 17.00	300.000 4.80	220.000 1.32	55.17		42.200 3.92	19.300 1.79	6.200 0.58	6.29			832.000 832.00	92.0 038.0				<u>જી</u>	∞i ``	∞1 7
ancy (US\$) Amount			,	1	•	,	•			1.43	0.52	0.17	2.12			91.00	0.38	0.11	1	0.09	0.09	91.58	91.58
Foreign Currency (US\$ Unit Price Amount										15.400	5.600	1.800				91.000	0.520	0.910		2.410	2.410	2.410	2.410
Quantity			0.02300	0.10000	0.10000	0.01600	0.00600			0.09300	0.09300	0.09300				1.00000	0.72500	0.12100		0.03600	0.03600	0.03600	0.03600
Unit	per m3		m.d.	m.d.	m.d.	m.d.	m.d.			I	hr	hr				m3	lit	lit	7.7	11	Ħ		
Item No. Description	18. CONCRETE WORK, CLASS F, per m3	1) Labour	Foreman	Skilful labour	Common labour	Operator	Asst. operator	Sub-total	2) Equipment	Truck crane, 16 ton	Concrete bucket, 0.5 m3	Vibrator	Sub-total	3) Materials	Ready-mixed concrete,	Class F, 30C/10	Diesel oil	Gasoline	Hacine oil	Lugino On	Sub-total	Sub-total	Sub-total 4) Miscellaneous (5% of 1+2+3)

Remarks			
Local Currency (Rs)	Unit Price Amount	187.71	1.126.26
Foreign Currency (US\$) Local		19.68	118.07
ľ	Unit Price		
Unit Quantity			
Description		Overhead anf profit (20%)	Total
Item No.		0	[

Item No. Description	Unit	Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Remarks
19. SHOTCRETE WORK (T=5 cm), per m2	r m2	:		 			
1) Labour							
Foreman	m.d.	0.01200		1	350.000	4.20	
Skilful labour	m.d.	0.04900		1	240.000	11.76	
Common labour	ш.d.	0.02000		1	170.000	3.40	
Sub-total				1		19.36	
2) Equipment							
Air-compressor, 105 m3/min	hr	0.04690	44.800	2.10	153.400	7.19	
Concrete spray gun, 0.8-1.2 m3/ł	hr	0.03350	4.800	0.16	16.300	0.55	
Belt conveyor, 7m L	hr	0.10100	6.700	99.0	22.700	2.29	
Diesel generator, 10 KVA	hr	0.05360	5.700	0.31	19.400	1.04	
Submersible pump, 50 mm	hr	0.03350	2.500	0.08	8.600	0.29	
Sub-total				3.33		11.36	
3) Material							
Portland cement	Кg	26.70000	0.112	2.99	0.077	2.06	
Sand	m3	0.08000	16.640	1.33	152.000	12.16	
Steel fabric mesh, 3x100x100	m2	1.00000	1.430	1.43	0.980	86.0	
Diesel oil	lit	0.81600	0.520	0.42	0.360	0.29	
Gasoline	Ħ	0.12100	0.910	0.11	0.620	0.08	
Engine oil	Iit	0.03800	2.410	0.00	1.650	90.0	
Sub-total				6.37		15.63	
4) Miscellaneous (5% of 1+2+3)				0.49		2.32	

Remarks			
ncy (Rs) Amount	48.67	9.73	58.40
Local Currency (Rs) Unit Price Amoun			
Foreign Currency (US\$) Unit Price Amount	10.19	2.04	12.23
Foreign Currency (US Unit Price Amount			
Unit Quantity			
Unit			
Description	Total of (1+2+3+4)	Overhead and profit (20%)	į ę
Item No.	Tot	) O	Total

Rcmarks																				
Rei																				
cy (Rs) Amount			179.76	528.00	323.00	20.64	5.10	1.056.50		19.24	19.24		400.46	1.28	0.23	401.97	73.89	1,551.60	310.32	1,861.92
Local Currency (Rs) Unit Price Amour			350.000	220.000	170.000	300.000	220.000			42.200			400.460	0.360	1.650					
ncy (US\$) Amount			1	ı	•	•	•	1		7.02	7.02		584.62	1.85	0.34	586.81	29.69	623.52	124.70	748.22
Foreign Currency (US\$ Unit Price Amount										15.400			584.620	0.520	2.410					
Quantity			0.51360	2.40000	1.90000	0.06880	0.02320			0.45600			1.00000	3.55680	0.14230					
Unit	ton		m.d.	m.d.	m.d.	m.d.	m.d.			hr			ton	lit	lit					
Description	REINFORCING BAR WORK, per ton	1) Labour	Foreman	Steel bar bender	Common labour	Operator	Asst. operator	Sub-total	2) Equipment	Track crane, 16 ton	Sub-total	3) Materials	Reinforcing bar, cold twist bars	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Total (ton)
Item No.	25. REINI	1) T	114	S	0	O	₹	S	2) F	[I	S	3) N	ᅜ	<u> </u>	ᄪ	S	4) N	I	J	E⊸4

			OLLER		3				
Item No.	Description	Unit	Quantity	Foreign Currency (US\$	OS\$)	Local Currency (Rs)	cy (Rs)	Remarks	
				Unit Price Amount	unt	Unit Price	Amount		1
26. CONCRETE B	26. CONCRETE BLOCK MASONRY								
1) Labour									
Foreman		m.d.	0.04610		ı	350.00	16.14		
Block-mason	on	m.d.	0.13000		ı	240.00	31.20		
Common labour		m.d.	0.40760		•	170.00	69.29		
Steel bar bender	ender	m.d.	0.02930		•	220.00	6.45		
Sub-total					•		123.08		
2) Equipment	nt				ı		•		
3) Materials									
Concrete b	Concrete block, 150x200x450	Н	11.10000		ı	7.34	81.47		
Cement		kg	10.73000	0.112	1.20	76.50	820.85		
Sand		m3	0.01500	16.640	0.25	152.00	2.28		
Reinforcing bar	g bar	kg	12.20000	0.585	7.14	0.40	4.88		
Sub-total					8.59		909.48		
4) Miscellan	4) Miscellaneous (5% of 1+2+3)				0.43		51.63		
Total of (1+2+3+4)	+2+3+4)				9.05		1,084.19		
Overhead a	Overhead and profit (20%)				1.80		216.84		
Total (m2)				<del>  </del>	10.82		1,301.03		

		ļ					:	
Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	Remarks
27. EXPANS	27. EXPANSION IOINT, t=20 mm, per m	m.						
1) Labour	bour							
Skil	Skilful labour	m.d.	0.06500		ı	240.00	15.60	
Con	Common labour	m.d.	0.13000		ı	170.00	22.10	
Sut	Sub-total				1		37.70	
2) Eq	2) Equipment				1		ı	
3) Ma	3) Materials							
Wai	Water-stop, PVC 300x7t	Ħ	1.00000	19.740	19.74	13.52	13.52	
Joir	Joint sealant, 20x20x500 mm	Ħ	2.00000	3.850	7.70	5.27	10.54	
Ela	Elastic filler, t=20 mm	m2	0.33000	22.000	7.26	30.14	9.95	
Sul	Sub-total				34.70		34.01	
4) Mis	4) Miscellaneous (5% of 1+2+3)				1.74		3.59	
Tot	Total of (1+2+3+4)				36.44		75.30	
Ove	Overhead and profit (20%)				7.29		15.06	
Total	la.				43.73		<u> 90.36</u>	

	Remarks															
	cy (Rs) Amount			12.00	17.00	29.00	1		13.52		2.19	15.71	2.24	46.95	9.39	56.34
	Local Currency (Rs) Unit Price Amour			240.00	170.00				13.52		7.30					
}   	ncy (US\$).	(), per m		1	ı		1		19.74		1.59	21.33	1.07	22.40	4.48	26.88
	Foreign Currency (US\$) Unit Price Amount	CTIVE COVER							19.740		5.300					
(	Quantity	TH PROTE		0.05000	0.10000				1.00000		0.30000					
	Unit	STOP WE		m.d.	m.d.				E		m2					
	Description	28. EXPANSION JOINT (WATER-STOP WITH PROTECTIVE COVER), per m	our	<b>Foreman</b>	Common labour	Sub-total	2) Equipment	3) Materials	Water-stop, PVC 300x7t	Protective cover, 2 inc coated	steel plate, t=0.5 mm	Sub-total	4) Miscellaneous (5% of 1+3)	Total of (1+3+4)	Overhead and profit (20%)	al
	Item No.	28. EXPANS	1) Labour	Fore	Con	Sub	2) Eq1	3) Ma	Wat	Prot	stee	Sub	4) Mis	Tota	Ove	Total

		( ( )						
Item No. Description	Unit	Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amoun	cy (Rs) Amount	Remarks	
30. EXPANSION JOINT (ELASTIC FILTER, 1=20 mm), per m2	FILTER,	t=20 mm). I	per m2					1
1) Labour								
Skilful labour	m.d.	0.02860		1	240.00	98.9		
Common labour	m.d.	0.05710			170.00	9.71		
Sub-total				i		16.57		
2) Equipment				1		ı		
3) Materials						ı		
Elastic filler, t=20 mm	m2	1.00000	22.000	22.00	30.14	30.14		
Sub-total				22.00		30.14		
4) Miscellaneous (5% of 1+3)				1.10		2.34		
Total of (1+3+4)				23.10		49.05		
Overhead and profit (20%)				4.62		9.81		
Total				27.72		58.86		

					}			
Item No.	Description	Unit	Quantity	Foreign Currency (US\$	3 (US\$)	Local Currency (Rs)	ncy (Rs)	Remarks
				Unit Price A	Amount	Unit Price	Amount	
31. STOP-LO	31. STOP-LOG INSTALLATION, (HARD WOOD), per m3	D WC	)OD), per m.	3				
1) Labour	ur							
Foreman		m.d.	0.07700		1	350.00	26.95	
Carpenter		m.d.	0.77200		ı	220.00	169.84	
Comn	Common labour	m.d.	1.00000		1	170.00	170.00	
Sub-total	otal				1		366.79	
2) Equipment	pment				1		•	
3) Material	rial							
Timb	Timber plank, 1270x300x50x3nr	m3	0.05720	238.690	13.65	13,080.00	748.18	
Steel 1	Steel plate, t=3mm	kg	14,00000	0.795	11.13	5.99	83.86	
includ	including fabrication and							
painting	gu							
Sub-total	otal				24.78		832.04	
4) Misco	4) Miscellaneous (5% of 1+3)				1.24		59.94	
Total	Total of (1+3+4)				26.02		1,258.77	
Over	Overhead and profit (20%)				5.20		251.75	
Total					31.22		1,510.52	

			1110					
Item No.	o. Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ency (US\$)	Local Currency (Rs)	ncy (Rs) Amount	Remarks
32. BU	32. BUFFLE PLATE, w=900, per m3							
=	1) Labour							
	Foreman	m.d.	08.0		i	350.00	280.00	
	Carpenter	m.d.	3.40		ı	220.00	748.00	
	Common labour	m.d.	4.15		1	170.00	705.50	
·	Sub-total				t		1,733.50	
64	2) Equipment				ı		ŧ	
ćΩ.	3) Materials							
	Timber board, t=20 mm	m3	1.00	243.210	243.21	13,328.00	13,328.00	
	Stainless steel edge, t= 0.3 mm	kg	16.50	7.600	125.40	57.27	944.96	
	Steel plate, t= 3 mm	Кg	2886.00	0.795	2,294.37	5.99	17,287.14	
	Hook, R.B. 6 mm	kg	34.80	0.583	20.29	0.40	13.92	
	Sub-total				2,683.27		31,574,02	
ч	4) Miscellaneous (5% of 1+3)				134.16		1,665.38	
	Total of (1+3+4)				2,817.43		34,972.90	
	Overhead and profit (20%)				563.49		6,994.58	
	Total				3,380.92		41,967.48	

Foreign Currency (US\$) Local Currency (Rs) Remarks Unit Price Amount Unit Price Amount			- 350.00 5.95	- 300.00 25.80	- 220.00 6.38	- 240.00 24.00	- 170.00 17.00	- 79.13		15.400 8.78 42.20 24.05	8.78 24.05		1.300 4.55 0.89 3.12		0.520 2.31 0.36 1.60		17.17	1.30 5.75	
nit Quantity	N. per r		.d. 0.01700	.d. 0.08600	.d. 0.02900	.d. 0.10000	.d. 0.10000			п 0.57000			n 3.50000	g 1.30000	it 4.45000	it 0.18000			
Unit	LLATIO		m.d.	m.d.	m.d.	m.d.	m.d.			hr			E	steel kg	Eit	Lit		(+3)	
Item No. Description	33. EFFLUENT TROUGH INSTALLATION, per nr	1) Labour	Foreman	Operator	Asst. operator	Skilful labour	Common labour	Sub-total	2) Equipment	Truck crane, 16 ton	Sub-total	3) Material	uPVC pipe, DN40 mm	Anchor bolts, nuts, stainless steel	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	

Remarks										
cy (Rs)	Amount	24.14	144.86		462.02	2,527.00	13.03	11.71	3,013.76	3,158.62
Local Curren	Unit Price				1,126.89	361.00	0.18620	585.60		
icy (US\$)	Amount	5.45	32.70		48.39	46.20	52.36	1.99	148.94	181.64
Foreign Currency (US\$) Local Currency (Rs)	Unit Price Amount				118.020	6.600	0.748	99.740		
Unit Quantity					0.41000	7.00000	70.00000	0.02000		
Unit					m3	m2	Kg g	m3		
Description		Overhead and profit (20%)	Total	5) Works	Concrete work, class F	Formwork, Type F2	Reinforcing bar work	Mortar plastering (1:2)	Sub-total	Grand total
Item No.				5) V	0	114	j.	Z.	σ	

Item No.	Description	Unit	Quantity		icy (US\$)	Local Currency (Rs)	cy (Rs)	Remarks
				Unit Price A	Amount	Unit Price	Amount	
34. FILTER SAND, per m3	AND, per m3							
1) Labour	ur							
Skilfu	Skilful labour	m.d.	0.01000		ı	240.00	2.40	
Сошп	Common labour	m.d.	0.14000		1	170.00	23.80	
Sub-total	otal				1		26.20	
2) Equipment	pment				ı		1	
3) Materials	rials							
Filter	Filter sand, effective grain	m3	1.00000	420.000	420.00	575.00	575.00	
size 1.	size 1.0 mm, uniformity 1.5 less							
Sub-total	otal				420.00		575.00	
4) Misce	4) Miscellaneous (5% of 1+3)				21.00		30.06	
Total	Total of (1+3+4)				441.00		631.26	
Overh	Overhead and profit (20%)				88.20		126.25	
Total					529.20		757.51	

Itam No		Yinit	Onentify	Horaign Curren	(TIC¢)	I ocol	(De)	Domorbo	
	Description		Quantity	Unit Price Amount	Amount	Unit Price Amour	Amount	Kemarks	
ILTER G	35. FILTER GRAVEL, per m3								
1) Labour	ur								
Skilfu	Skilful labour n	m.d.	0.01000		1	240.00	2.40		
Comn	Common labour	m.d.	0.19000		ı	170.00	32.30		
Sub-total	otal				1		34.70		
2) Equipment	pment				ŧ		ſ		
3) Materials	rials								
Filter	Filter gravel, effective	m3	1.00000	403.000	403.00	552.00	552.00		
grain	grain size of 2.38 mm to 4.76 mm								
Sub-total	otal				403.00		552.00		
4) Misce	4) Miscellaneous (5% of 1+3)				20.15		29.34		
Total	Total of (1+3+4)				423.15		616.04		
Overh	Overhead and profit (20%)				84.63		123.21		
Total					507.78		739.25		

S																	
Remarks																	
cy (Rs) Amount			7.22	17.35	17.22	41.79		4.63	4.63		0.38	0.07	0.45	2.34	49.21	9.84	59.05
Local Currency (Rs) Unit Price Amour			240.00	240.00	170.00			23.60			0.36	1.65					
ncy (US\$) Amount	- - -		1	ı	•	•		1.69	1.69		0.55	0.10	0.65	0.12	2.46	0.49	2.95
Foreign Currency (US\$ Unit Price Amount								8.600			0.520	2.410					
 Quantity	r m		0.03010	0.07230	0.10130			0.19600			1.05800	0.04200					
Unit	m DIP, pe		m.d.	m.d.	m.d.			hr			lit	lit					
Description	36. PIPELAYING WORK, DN 900 mm DIP, per	our	er	ıber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	terials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+3)	Total of (1+3+4)	Overhead and profit (20%)	j.
Item No.	36. PIPELAY	1) Labour	Driver	Plumber	Com	Sub	2) Equ	Truc	Sub	3) Materials	Dies	Engi	Sub	4) Misa	Tota	Ove	Total

			(		) } (				
Item No.	Description	Unit	Quantity	빔	cy (US\$)	Local Currency (Rs)	ıcy (Rs)	Remarks	1
				Unit Frice A	Amount	Unit Price	Amount		ŀ
37. PIPELA	37. PIPELAYING WORK, DN 800mm DIP, per	DIP. po	m m						
I) Labour	bour								
Dri	Driver	m.d.	0.02840		ı	240.00	6.82		
Plu	Plumber	m.d.	0.05770		1	240.00	13.85		
Ö	Common labour	ш.d.	0.08170		ı	170.00	13.89		
Sul	Sub-total				1		34.56		
2) Eq	2) Equipment								
Tru	Truck crane, 4.9 ton	hr	0.18480	8.600	1.59	23.60	4.36		
Sul	Sub-total				1.59		4.36		
3) Ma	3) Material								
Die	Diesel oil	lit	1.00000	0.520	0.52	0.36	0.36		
Eng	Engine oil	#	0.04000	2.410	0.10	1.65	0.07		
Sul	Sub-total				0.62		0.43		
4) Mi	4) Miscellaneous (5% of 1+2+3)				0.11		1.97		
Tot	Total of (1+2+3+4)				2.32		41.32		
Ŏ	Overhead and profit (20%)				0.46		8.26		
Total	tal				2.78		49.58		

	Remarks																	
	cy (Rs) Amount			6.41	12.70	12.73	31.84		4.10	4.10		0.34	90.0	0.40	1.82	38.16	7.63	45.79
	Local Currency (Rs) Unit Price Amour			240.00	240.00	170.00			23.60			0.36	1.65					
IA I ES	ancy (US\$) Amount			•	ı	ı			1.49	1.49		0.49	0.09	0.58	0.10	2.17	0.43	2.60
UNIT COST ESTIMATES	Foreign Currency (US\$ Unit Price Amount								8.600			0.520	2.410					
	Quantity	ır m		0.02670	0.05290	0.07490			0.17360			0.93700	0.03700					
	Unit	m DIP. pe		m.d.	m.d.	m.d.			hr			lit	lit					
	Description	38. PIPELAYING WORK, DN 700 mm DIP, per m	Sour	/er	Plumber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	al
	Item No.	38. PIPELA	1) Labour	Driver	Plur	Con	Sub	2) Equ	Tru	Sub	3) Ma	Die	Eng	Sub	4) Mis	Tot	Ove	Total

				1 0	\ \ !		
Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	US\$)	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Remarks
39. PIPELAYING WORK, DN 600 mm DIP, per m	600 mm DIP. p	er m					
1) Labour							
Driver	m.d.	0.02490		1	240.00	5.98	
Plumber	m.d.	0.04380		ı	240.00	10.51	
Common labour	m.d.	0.06280		4	170.00	10.68	
Sub-total				ı		27.1Z	
2) Equipment							
Truck crane, 4.9 ton	hr	0.16240	8.600	1.40	23.60	3.83	
Sub-total				1.40		3.83	
3) Material							
Diesel oil	lit	0.87700	0.520	0.46	0.36	0.32	
Engine oil	•	0.03500	2.410	0.08	1.65	90.0	
Sub-total				0.54		0.38	
4) Miscellaneous (5% of 1+2+3)	1+2+3)			0.10		1.57	
Total of (1+2+3+4)				2.04		32.95	
Overhead and profit (20%)	(%)			0.41		6.59	
Total				2.45		39.54	

Description	Unit	Quantity	Foreign Currency (US\$	cy (US\$)	Local Currency (Rs)	ncy (Rs)	Remarks
			Unit Price A	Amount	Unit Price	Amount	
40. PIPEL AYING WORK, DN 350 mm DIP, per m	JIP, pel	r m					
	m.d.	0.02060		1	240.00	4.94	
•	m.d.	0.02200		1	240.00	5.28	
-	m.d.	0.03000		ı	170.00	5.10	
				1		15.32	
	hr	0.13440	8.600	1.16	23.60	3.17	
				1.16		3.17	
	Ħ	0.72600	0.520	0.38	0.36	0.26	
	liť	0.02900	2.410	0.07	1.65	0.05	
				0.45		0.31	
4) Miscellaneous (5% of 1+2+3)				0.08		0.94	
				1.69		19.74	
Overhead and profit (20%)				0.34		3.95	
				2.03		23.69	

			( ( ( )		}			
Item No.	Description	Unit	Quantity	Foreign Currency (US\$	(\$SD)	Local Currency (Rs)	y (Rs)	Remarks
				Unit Price Amo	Amount	Unit Price /	Amount	
41. PIPELAYI	41. PIPELAYING WORK, DN 300 mm DIP, per m	DIP.pe	l m					
1) Labour	ur							
Driver		m.d.	0.01980		1	240.00	4.75	
Plumber	cı	m.d.	0.01800		ı	240.00	4.32	
Сошш	Common labour	m.d.	0.02400		1	170.00	4.08	
Sub-total	otal				•		13.15	
2) Equipment	oment							
Truck	Truck crane, 4.9 ton	hr	0.12880	8.600	1.11	23.60	3.04	
Sub-total	otal				1.11		3.04	
3) Materials	rials						٠.	
Diesel oil	oil	lit	0.69600	0.520	0.36	0.36	0.25	
Engine oil	e oil	lit	0.02800	2.410	0.07	1.65	0.05	
Sub-total	otal				0.43		0.30	
4) Misce	4) Miscellaneous (5% of 1+2+3)				0.08		0.82	
Total (	Total of (1+2+3+4)				1.62		17.31	
Overh	Overhead and profit (20%)				0.32		3.46	
Total					1.94		20.77	

Remarks												
cv (Rs)	Amount			11.28	17.85	29.13	1	1	1.46	30.59	6.12	36.71
Foreign Currency (US\$) Local Currency (Rs)	Unit Price			240.00	170.00							
rency (US\$)	Amount			1	ı	ı	t	ı	ı	ı	ı	ı
Foreign Cur	Unit Price Amount											
Ouantity		er m		0.04700	0.10500							
Unit		mm DIP, p		m.d.	m.d.							
Description	•	42. PIPELAYING WORK, DN 200 mm DIP, per m	1) Labour	Pfumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.		42. PIPEL	1) L	Z	Ö	Σ.	2) E	3) [V	4) IV	Ĺ	0	<u>[</u>

Overhead and profit (20%)	Remarks	Cy (Rs) Amount 7.92 16.83 24.75 - 1.24 25.99	Local Curren Unit Price 240.00 170.00	Foreign Currency (US\$) Unit Price Amount	Ouantity 0.03300 0.09900	Unit In.d. m.d.	Description LAYING WORK, DN 150 r Labour Plumber Common labour Sub-total  Equipment Materials Miscellaneous (5% of 1) Total of (1+4) Overhead and profit (20%)
		31.19		ı			Total
		25.99		ı			Fotal of (1+4)
		1.24		•			Miscellaneous (5% of 1)
s (5% of 1)		•		•			Materials
		ı		•			Iquipment
ous (5% of 1)		24.75		•			sub-total
1t		16.83	170.00	1	0.0660.0	m.d.	Common labour
bour m.d. 0.09900 - 170.00  it  it  cous (5% of 1)		7.92	240.00	ı		m.d.	lumber
bour m.d. 0.03300 - 240.00 bour m.d. 0.09900 - 170.00  ut  cous (5% of 1)							abour
bour m.d. 0.03300 - 240.00 bour m.d. 0.09900 - 170.00  it  cous (5% of 1)	i		İ		er m	nm DIP, p	LAYING WORK, DN 150 r
WORK, DN 150 mm DIP, per m         hour       m.d. 0.03300       - 240.00         hour       - 170.00       - 170.00         sous (5% of 1)       170.00       170.00	Remarks	cy (Rs) Amount	Local Curren Unit Price	Foreign Currency (US\$) Unit Price Amount	Quantity	Unit	Description
antity Foreign Currency (US\$) Local Currency (Rs)  Unit Price Amount Unit Price Amount Unit Price Amount  13300  - 240.00 7.92  16.83  - 170.00 16.83  - 170.00 - 24.75  - 24.75  - 24.75							

Remarks											
cy (Rs) Amount			7.68	15.30	22.98	ı	1	1.15	24.13	4.83	28.96
Local Currenc Unit Price			240.00	170.00							
Foreign Currency (US\$) Local Currency (Rs) Unit Price Amount Unit Price Amount			à	1	•		ı	1	•	•	ı
Unit Quantity	oer m		0.03200	0.09000							
Unit	mm DIP, 1		m.d.	m.d.							
Description	44. PIPELAYING WORK, DN 125 mm DIP, per m	1) Labour	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	44. PIPEL	1) [r	P	ŭ	īS.	2) E	3) M	4) M	Ĭ	0	[end

			( ( ( )				
Item No.	Description	Unit	Unit Quantity	Foreign Currency (US\$)	Local Currency (Rs)	ncy (Rs)	Remarks
			:	Unit Price Amount	Unit Price	Amount	
45. PIPELAYI	45. PIPELAYING WORK, 350 mm (S.PFILTER), per m	FILT	ER), per m				
1) Labour	ur						
Foreman		m.d.	0.04000	•	350.00	14.00	
Plumber		m.d.	0.14950	1	240.00	35.88	
Сошш	Common labour n	m.d.	0.15860	1	170.00	26.96	
Sub-total	otal			ı		76.84	
2) Equipment	pment			ı		ı	
3) Materials	rials			1		ı	
4) Misce	4) Miscellaneous (5% of 1)			ı		3.84	
Total e	Total of (1+4)			1		89.08	
Overh	Overhead and profit (20%)			ı		16.14	
Total				ı		28.96	

Remarks												
ncy (Rs) Amount			8.05	25.13	18.90	52.08	ı	1	2.60	54.68	10.94	65.62
Local Currency (Rs) Unit Price Amour			350.00	240.00	170.00							
Foreign Currency (US\$) Unit Price Amount			•	i	1	•	1	1	1	1	ı	ı
Quantity	ER), per m		0.02300	0.10470	0.11120							
Unit	S.PFILT		m.d.	m.d.	m.d.							
Description	46. PIPELAYING WORK, 200 mm (S.PFILTER), per m	1) Labour	Foreman	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	46. PIPEL	1) L	ŭ	۵	S	S.	2) E	3) 18	4) N	<u>[</u> -	0	<del>[</del>

	Remarks													
	sy (Rs)	Amount			7.00	22.63	17.14	46.77	i	ı	2.34	49.11	9.82	58.93
	Local Current	Unit Price			350.00	240.00	170.00							
	181	Unit Price Amount	<u> </u>		1	•	ı	ı	1	ı	1	1	ı	ı
77,10	Quantity		ILTER), per		0.02000	0.09430	0.10080							
	Unit		mm (S.PF		m.d.	m.d.	m.d.							
	Item No. Description		47. PIPELAYING WORK, DN 150 mm (S.PFILTER), per m	1) Labour	Foreman	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
	Itc.		47.											

Remarks												
cy (Rs) Amount			5.60	21.07	16.03	42.70	ı	· 1	2.14	44.84	8.97	53.81
Local Currenc Unit Price			350.00	240.00	170.00							
Foreign Currency (US\$) Local Currency (Rs) Unit Price Amount Unit Price Amount	FANK), per m		•	,	•		1	•	•	•	•	•
Unit Quantity	EVATED		0.01600	0.08780	0.09430							
Unit	mm (SP, EI		m.d.	m.d.	m.d.							
Description	48. PIPELAYING WORK, DN 125 mm (SP, ELEVATED TANK), per m	1) Labour	Foreman	Plumber	Common worker	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	48. PIPEI	1) [	p.L.	j-š-4	•	<b>V</b> 1	2) 1	3) 1	4) 1	(-1	•	į.

Remarks												
cy (Rs) Amount			5.25	12.46	9.78	27.49	ı	ı	1.37	28.86	5.77	34.63
Local Curren Unit Price			350.00	240.00	170.00							
Foreign Currency (US\$) Local Currency (Rs) Unit Price Amount Unit Price Amount	URE), per m		•	,	•	1	ı	•	ı	1	ı	•
Unit Quantity	N STRUCT		0.01500	0.05190	0.05750							
Unit	10 mm (SP, II		m.d.	m.d.	m.d.							
Description	49. PIPELAYING WORK, DN 100 mm (SP, IN STRUCTURE), per m	1) Labour	Foreman	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	49. PIPI	1)					2)	3)	4			

Item No.	Description	Unit	Ouantity	Foreign Currency (US\$) Local Currency (Rs)	Local Currenc	y (Rs)	Remarks
	7		,	Unit Price Amount	Unit Price A	Amount	
50. PIPELAYI	50. PIPELAYING WORK, DN 80 mm (SP, IN STRUCTURE), per m	(SP, IN	STRUCTU	RE), per m			
1) Labour	ur						
Foreman	lan	m.d.	0.01300	•	350.00	4.55	
Plumber	er	m.d.	0.04600	ı	240.00	11.04	
Сошп	Common labour	m.d.	0.05170	•	170.00	8.79	
Sub-total	otal			•		24.38	
2) Equipment	pment			1 ,		,	
3) Materials	rials			•		1	
4) Misce	4) Miscellaneous (5% of 1)			1		1.22	
Total (	Total of (1+4)			1		25.60	
Overh	Overhead and profit (20%)			1		5.12	
Total				•		30.72	

Foreign Currency (US\$) Local Currency (Rs) Remarks Unit Price Amount Unit Price Amount			- 350.00 4.20	- 240.00 10.73	- 170.00 8.60	- 23.53	1	,	1.18	- 24.71	4.94	59.00
Unit Quantity Foreign Currer Unit Price	ructure), per m		0.01200	0.04470	0.05060							
Unit	5 mm (SP, in st		m.d.	m.d.	m.d.						(6	
Description	51. PIPELAYING WORK, DN 65 mm (SP, in structure), per m	1) Labour	Foreman	Plumber	Common labour	Sub-total	2) Equipment	3) Material	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	51. PIP	1)					2)	3)	4			

Item No.	Description	Unit	Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Remarks	
52. PIPEL	52. PIPELAYING WORK, DN 225 mm (uPVC, IN	(uPVC		TRENCH), per m					
1) La	1) Labour								
Plt	Plumber	m.d.	0.04100		•	240.00	9.84		
රි	Common labour	m.d.	0.05300		t	170.00	9.01		
Su	Sub-total				1		18.85		
2) Eq	2) Equipment				ŧ		ı		
3) M	3) Materials								
uP	uPVC pipe, DN 225 mm	E	1.00000	26.900	26.90	18.43	18.43		
迅	Flanged adaptor, and others	LS.	1.00000	1.350	1.35	0.92	0.92		
Su	Sub-total				28.25		19.35		
4) M	4) Miscellaneous (5% of 1+3)				1.41		1.91		
To	Total of (1+3+4)				29.66		40.11		
Ó	Overhead and profit (20%)				5.93		8.02		
Ie	Total				35.59		48.13		

			, ! ! !		}				
Item No.	Description	Unit	Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Remarks	1
53. PIPELA	53. PIPELAYING WORK, DN 160 mm (uPVC, IN	m (uPV(	1	TRENCH), per m					i
1) Labour	bour								
Plui	Plumber	m.d.	0.03000		t	240.00	7.20		
Con	Common labour	m.d.	0.03800		1	170.00	6.46		
Sub	Sub-total				ı		13.66		
2) Eq.	2) Equipment				ı		ı		
3) Ma	3) Material								
υPV	uPVC pipe, DN 160 mm	E	1.00000	16.700	16.70	11.44	11.44		
Fla	Flanged adaptor and others	L.S	1.00000	0.840	0.84	0.57	0.57		
Sut	Sub-total				17.54		12.01		
4) Mis	4) Miscellaneous (5% of 1+3)				0.88		1.28		
Tot	Total of (1+3+4)				18.42		26.95		
Ove	Overhead and profit (20%)				3.68		5.39		
Total	izi				22.10		32.34		

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Item No.	Description	Onit	Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Remarks
54. PIPELA	54. PIPELAYING WORK, DN 110 mm (uPVC, IN TRENCH), per m	(uPVC,	IN TREN	H), per m				
1) Labour	our court							
Plumber	трег	m.d.	0.02200		1	240.00	5.28	
Соп	Common Labour	m.d.	0.03000		•	170.00	5.10	
Ans	Sub-total				ı		10.38	
2) Equ	2) Equipment				1		ı	
3) Materials	erials							
uPV	uPVC pipe, DN 110 mm	H	1.00000	8.400	8.40	5.75	5.75	
Flan	Flanged adaptor and others	L.S	1.00000	0.420	0.42	0.29	0.29	
qnS	Sub-total				8.82		6.04	
4) Mis	4) Miscellaneous (5% of 1+3)				0.44		0.82	
Tota	Total of (1+3+4)				9.26		17.24	
Ove	Overhead and profit (20%)				1.85		3.45	
Total	1						20.69	

3			N TIMIO	CHINALICA ICO TIMO	COTT				
Item No.	Description	Unit	Unit Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$)	Local Currency (Rs) Unit Price Amoun	ncy (Rs) Amount	Remarks	
55. PIPELAYI	55. PIPELAYING WORK, DN 90 mm (uPVC, IN J	uPVC.	IN TRENC	(RENCH), per m					
1) Labour	ır								
Plumber	er	m.d.	0.01600		1	240.00	3.84		
Сошш	Common labour	m.d.	0.02400		ı	170.00	4.08		
Sub-total	ıtal				1		7.92		
2) Equipment	ment				1		ı		
3) Materials	rials								
uPVC	uPVC pipe, DN 90 mm	E	1.00000	5.600	5.60	3.84	3.84		
Flange	Flanged adaptor and others	L.S	1.00000	0.280	0.28	0.19	0.19		
Sub-total	otal				5.88		4.03		
4) Misce	4) Miscellaneous (5% of 1+3)				0.29		09:0		
Total o	Total of (1+3+4)				6.17		12.55		
Overh	Overhead and profit (20%)				1.23		2.51		
Total					7.40		15.06		

:	Remarks														
	cy (Rs) Amount			3.84	4.08	7.92	ı		1.85	0.08	1.93	0.49	10.34	2.07	12.41
	Local Currency (Rs) Unit Price Amour			240.00	170.00				1.85	0.08					
	ncy (US\$) Amount			ı	•	1	ŧ		2.70	0.14	2.84	0.14	2.98	09.0	3.58
	Foreign Currency (US\$) Unit Price Amount	TRENCH), per m							2.700	0.140					
( ( )	Quantity	IN TRENC		0.01600	0.02400				1.00000	1.00000					
	Unit	n (uPVC,		m.d.	m.d.				ш	L.S					
	Description	56. PIPELAYING WORK, DN 63 mm (uPVC, IN	bour	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	uPVC pipe, DN 63 mm	Flanged adaptor and others	Sub-total	4) Miscellaneous (5% of 1+3)	Total of (1+3+4)	Overhead and profit (20%)	ıtal
	Item No.	56. PIPELA	1) Labour	Plu	CO	Sul	2) Eq	3) ME	uP	Fla	Su	4) Mi	To	Ov	Total

	arks														
	Remarks														
	ncy (Rs) Amount			3.36	3.40	6.76	ı	·	1.23	90.0	1.29	0.40	8.45	1.69	10.14
	Local Currency (Rs) Unit Price Amour			240.00	170.00				1.23	90.0					
	ncy (US\$) Amount			•	•	•	ė		1.80	0.09	1.89	0.09	1.98	0.40	2.38
	Foreign Currency (US\$) Unit Price Amount	H), per m							1.800	0.090					
! ! !	Quantity	IN TRENC		0.01400	0.02000				1.00000	1.00000					
	Unit	nm (uPVC,		m.d.	m.d.				ш	uns					
	Description	57. PIPELAYING WORK, DN 50 mm (uPVC, IN TRENCH), per m	1) Labour	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	uPVC pipe, DN 50 mm	Flanged adaptor and others	Sub-total	4) Miscellaneous (5% of 1+3)	Total of (1+3+4)	Overhead and profit (20%)	Total
	Item No.	57. PIPEL	1) L	E.	Ö	<u>v</u>	2) E	3) N	[n	匠	Ø.	4) [4]	Ĺ	0	Į

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Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	Remarks	
58. PIPELAYING	58. PIPELAYING WORKS, DN 110 mm PE Pipe in	PE Pi	oe in Trench, per m	, per m					
1) Labour									
Plumber		m.d.	0.03000		ľ	240.00	7.20		
Common labour	n labour	m.d.	0.03000		ı	170.00	5.10		
Sub-total					r		12.30		
2) Materials	als								
PE pipe,	PE pipe, DN 100 mm,	E	1.00000	19.000	19.00	13.00	13.00		
working	working pressure 0.35 MPa								
pipe and socket	socket								
Adaptor	Adaptor to connect with DIP	uns			1.10		08.0		
or SP									
Sub-total	Tel				20.10		13.80		
3) Miscell	3) Miscellaneous (5% of 1 to 2)				1.01		1.31		
Total of	Total of (1+2+3)				21.11		27.41		
4) Overhe	4) Overhead and profit (20% of 1 to 3)	1 to 3			4.22		5.48		
Total					25.33		32.89		

Quantity Foreign Currency (US\$) Local Currency (Rs) Remarks Unit Price Amount Unit Price Amount	ipe in Trench, per m		. 0.01100 - 240.00 2.64	0.01700 - 170.00	- 5.53		1.00000 4.900 4.90 3.35 3.35	0.70 0.48	5.60	0.28	5.88	3) 1.18	7.06
Item No. Description Unit	60. PIPELAYING WORKS, DN 40 mm PE Pipe in Trench, per m	1) Labour	Plumber m.d.	Common labour m.d.	Sub-total	2) Materials	PE pipe, DN 40 mm, 0.73 MPa m	Adaptor to connect with DIP sum or SP	Sub-total	3) Miscellaneous (5% of 1 to 2)	Total of (1+2+3)	4) Overhead and profit (20% of 1 to 3)	Total

	Remarks																	
	cy (Rs) Amount			97.20	76.84	174.04	1		254.00		٠.	254.00	21.40	449.44	89.89	539.33	0.94	540.27
!	Local Currency (Rs) Unit Price Amour			240.00	170.00				254.00								585.60	
	ncy (US\$) Amount			•	1	1	ı		178.00			178.00	8.90	186.90	37.38	224.28	0.16	224.44
	Foreign Currency (US\$ Unit Price Amount	ND 350 mm) per nr							178.000								99.740	
( ( )	Quantity	, ND 350 n		0.40500	0.45200				1.00000								0.00160	
!	Unit	SS STEEI		m.d.	m.d.				nr								m3	
	Description	FILTER INLET PIPE (STAINLESS STEEL,	1) Labour	Pfumber	Common labour	Sub-total	2) Equipment	3) Material	Stainless steel pipe	350 mm inside diameter	t=4 mm x 675 L	Sub-total	4) Miscellaneous (5% of 1+3)	Total of (1+3+4)	Overhead and profit (20%)	Total	5) Mortar plastering (1:2)	Grand total
	Item No.	61. FILTE	1) La	Pft	රි	Su	2) Eç	3) M	St	35	<u>7</u>	Su	4) M	To	Ó	<b>3</b>	5) M	Ö

			1					
Item No.	Description	Unit	Quantity	Foreign Currency (US\$	ency (US\$)	Local Currency (Rs)	ncy (Rs)	Remarks
				Unit Price	Amount	Unit Price	Amount	
62. FLUSH	62. FLUSH PIPELAYING WORK (GSP, DN 100	DN I	)0 mm)					
1) Pil	1) Pipe material							
/01 GS	/01 GSP DN 100 mm	Ħ	159.00	18.800	2,989.20	12.88	2,047.92	
/02 Te	/02 Tee 100 x 100	ш	90.9	51.000	306.00	69.90	419.40	
/03 Te	/03 Tee 100 x 65	П	21.00	51.000	1,071.00	69.90	1,467.90	
/04 EII	/04 Elbow 100	Ħ	11.00	36.100	397.10	49.50	544.50	
/05 Un	/05 Union 100	пг	15.00	106.200	1,593.00	145.50	2,182.50	
/06 Cap 100	p 100	ш	5.00	32.400	162.00	44.40	222.00	
/07 Sle	/07 Sleeve pipe DN 150 mm x 300 L	ш	00.9	11.130	92.99	7.34	44.04	
/08 Mi	/08 Miscellaneous (5% of 1 to 7)				329.25		346.41	
vO 60/	/09 Overhead and profit (20% of 1 to 8)	8)			1,382.87		1,454.93	
Su	Sub-total				8,297.20		8,729.60	
2) Pij Su	2) Pipelaying work Sub-total	Ħ	159.00		t t	34.63	5,506.17	
To	Fotal (per 159 m)				8,297,20		14,235.77	
Pe	Per linear metre	E			52.18		89.53	

			1						
Item No.	Description	Unit	Quantity	Foreign Currency (US\$)	ncy (US\$)	Local Currency (Rs)	ncy (Rs)	Remarks	İ
				Unit Price	Amount	Unit Price	Amount		
63. FLUSH PIPI	63. FLUSH PIPELAYING WORK (GSP, DN 65 mm)	P. DN 6	2 mm)				ii Ii		
1) Pipe material	aterial								
/01 GSP DN 65 mm	ч 65 mm	E	31.00	9.400	291.40	6.44	199.64		
/02 Elbow DN 65 mm	ON 65 mm	nr	21.00	14.500	304.50	19.90	417.90		
/03 Union DN 65 mm	N 65 mm	ш	21.00	42.300	888.30	58.00	1,218.00		
/04 Sleeve	/04 Sleeve pipe DN 100 $\times$ 250 L	Ħ	21.00	4.700	98.70	6.40	134.40		
/05 Miscell	/05 Miscellaneous (5% of 1 to 4)				79.15		98.50		
/06 Overhe	/06 Overhead and profit (20% of 1 to 5)	05)			332.41		413.69		
Sub-total	la.				1,994.46		2,482.13		
2) Pipela	2) Pipelaying work	В	31.00		ı	29.64	918.84		
Sub-total	al				•		918.84		
Total (	Total (per 31 m)				1,994.46		3,400.97		
Per lin	Per linear metre	日			64.34		109.71		

	Remarks																		
	84																		
	ncy (Rs) Amount			68.60	90.09	585.60	751.40	1,465.60		38.33	38.33		3.16	0.58	3.74	75.38	1,583.05	316.61	
	Local Currency (Rs) Unit Price Amour			350.00	240.00	240.00	170.00			23.60			0.36	1.65					
<b>&gt;</b>	ancy (US\$) Amount	!!		1		ı	1			13.97	13.97		4.56	0.84	5.40	0.97	20.34	4.07	
	Foreign Currency (US\$ Unit Price Amount	l								8.600			0.520	2.410					
4 4 1 0	Quantity			0.19600	0.25000	2.44000	4.42000			1.62400			8.77000	0.35000					
	Unit	10 mm, per		m.d.	m.d.	m.d.	m.d.			h			##	lit		<b>(</b> 2			
	Description	VALVE INSTALLATION, DN 800 mm, per nr	our	nan	ri Si	ber	Common labour	total	ipment	Truck crane, 4.9 ton	total	erials	el oil	Engine oil	total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	
	Item No.	64. VALVEII	1) Labour	Foreman	Driver	Plumber	Com	Sub-total	2) Equipment	Truc	Sub-total	3) Materials	Diesel oil	Engì	Sub-total	4) Misc	Total	Over	

Remarks																		
Ren																		
ncy (Rs) Amount			66.50	57.84	549.60	649.40	1,323,34		37.00	37.00		3.05	95.0	3.61	68.20	1,432.15	286.43	1,718.58
Local Currency (Rs) Unit Price Amour			350.00	240.00	240.00	170.00			23.60			0.36	1.65					
ncy (US\$) Amount			ı	•	•	ı	1		13.48	13.48		4.40	0.82	5.22	0.94	19.64	3.93	23.57
Foreign Currency (US\$ Unit Price Amount									8.600			0.520	2.410					
Quantity	nr		0.19000	0.24100	2.29000	3.82000			1.56800			8.46700	0.33900					
Unit	mm, per		m.d.	m.d.	m.d.	m.d.			hr			lit	lit					
Description	65. VALVE INSTALLATION, DN 700mm, per nr	our	man	cr	nber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	terial	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Tes.
Item No.	65. VALVEI	1) Labour	Foreman	Driver	Plumber	Сош	-qnS	2) Equ	Truc	Sub-	3) Material	Dies	Engi	Sub-	4) Misc	Tota	Ove	Total

Remarks																		
R																		
ncy (Rs) Amount			65.45	49.68	530.40	559.30	1,204.83	٠.	31.86	31.86		2.62	0.48	3.10	61.99	1,301.78	260.36	1,562.14
Local Currency (Rs) Unit Price Amour			350.00	240.00	240.00	170.00			23.60			0.36	1.65					
Amount			•	ı	•	,	1		11.61	11.61		3.79	0.70	4.49	0.81	16.91	3.38	20.29
Foreign Currency (US\$ Unit Price Amount									8.600			0.520	2.410					
Quantity	<u>r nr</u>		0.18700	0.20700	2.21000	3.29000			1.35000			7.29000	0.29000					
Unit	mm, pe		m.d.	m.d.	m.ď.	m.d.			hr			lit	lit					
Description	66. VALVE INSTALLATION, DN 600 mm, per nr	our	Foreman	/er	Plumber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	al
Item No.	66. VALVE	1) Labour	Fore	Driver	Plun	Соп	qnS	2) Equ	Truc	qnS	3) Mai	Dies	Eng	Sub	4) Mis	Tota	Ove	Total

Item No.	Description	Unit	Unit Quantity	Foreign Currency (US\$) Unit Price Amount	Local Currency (Rs) Unit Price Amoun	ncy (Rs) Amount	Remarks	
67. VALVE	67. VALVE INSTALLATION, DN 350 mm, (IN FILTER), per nr	mm, (II	N FILTER).	per nr				
1) Labour	bour							
For	Foreman	m.d.		ı	350.00	69.30		
Plu	Plumber	m.d.	2.20000	1	240.00	528.00		
Coi	Common labour	m.d.	2.64000	ı	170.00	448.80		
Sul	Sub-total			•		1,046.10		
2) Eq.	2) Equipment			ı		ı		
3) Ma	3) Materials			l				
4) Mi	4) Miscellaneous (5% of 1)			l		52.31		
Tot	Total of (1+4)			l		1,098.41		
Ov.	Overhead and profit (20%)			l		219.68		
Total	· [ea			•		1,318.09		

Remarks												
			(	0	(	7	i		8	~	4	₹1
ncy (Rs) Amount			63.00	484.80	392.70	940.50			47.03	987.53	197.51	1.185.04
Local Currer Unit Price			350.00	240.00	170.00							
Foreign Currency (US\$) Local Currency (Rs) Unit Price Amount Unit Price Amount			ì	ı	ı	•	ı	1	ı	•	1	i
Unit Quantity	r nr		0.18000	2.02000	2.31000							
Unit	00 mm, pe		m.d.	m.d.	m.d.							
Description	68. VALVE INSTALLATION, DN 300 mm, per nr	1) Labour	Foreman	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	68. VALV	1) T	щ	Д	0	S	2) E	3) N	4) A	-		<u></u>

	28.00 225.60 178.50 432.10 - - - 21.61 453.71
Overinead and profit (2070)  Total	70.74

	Remarks												
	cy (Rs)	Amount	ı		196.80	168.30	365.10	•	1	18.26	383.36	76.67	460.03
	Local Curren	Unit Price			240.000	170.000							
	Foreign Currency (US\$) Local Currency (Rs)	Unit Price Amount			t	•	r	í	•	t	,	ı	,
( [ (	Quantity		rnr		0.82000	0.99000							
	Unit		100 mm, ре		m.d.	m.d.							
	Description		71. VALVE INSTALLATION, DN 100 mm, per nr	1) Labour	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
	Item No.		71. VAL	1)		~		(2)	3)	4	•	_	-

1) Labour Plumber Common labour Sub-total  2) Equipment  3) Materials  4) Miscellaneous (5% of 1)  Total of (1+4)  Overhead and profit (20%)	Unit Price Amount 240.000 180.00 170.000 168.30 348.30	
Total	438.86	

			77.70					
Item No.	Description	Unit	Quantity	Foreign Currency (US\$)	Local Currency (Rs)	ncy (Rs)	Remarks	ſ
				Unit Price Amount	Unit Price	Amount		
73. HOSE VAL	73. HOSE VALVE INSTALLATION							
1) Labour	1							
Plumber	z,	m.d.	0.57000	1	240.000	136.80		
Commo	Common labour	m.d.	0.79000	1	170.000	134.30		
Sub-total	tal					271.10		
2) Equipment	ment			ı		1		
3) Materials	ials			1		ı		
4) Miscel	4) Miscellaneous (5% of 1)			,		13.56		
Total o	Total of (1+4)			•		284.66		
Overhe	Overhead and profit (20%)			1		56.93		
Total				i		341.59		

Quantity Foreign Currency (US\$) Local Currency (Rs) Remarks Unit Price Amount Unit Price Amount	per nr		5.20000 - 240.000 48.00	3.40000 - 170.000 68.00	- 116.00	•	,	- 5.80	- 121.80	- 24.36	- 146.16
Description Unit (	75. AIR-VALVE INSTALLATION, (DN 80 mm)	1) Labour	Plumber m.d.	Common labour m.d.	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total
Item No.	75. AIR-VA	1) La	Plu	Ĉ	Sul	2) Eq	3) M£	4) Mi	Toi	^O	To

Remarks																					,
ncy (Rs) Amount		Ç	9.60	33.32	42.92		50.98	50.98		3,021.00		00.009		42.50	4.20	0.78	3,668.48	188.12	3,950.50	790.10	4,740.60
Local Currency (Rs) Unit Price Amour		0.00	240.000	170.000			23.600			3,021.000		12.000		8.500	0.360	1.650					
ncy (US\$) Amount			•	•	ı		18.58	18.58		•		44.00		3.10	90.9	1.13	54.29	3.64	76.51	15.30	91.81
Foreign Currency (US\$ Unit Price Amount							8.600					0.880		0.620	0.520	2.410					
Quantity	l l	00000	0.04000	0.19600			2.16000			1.00000		50.00000		5.00000	11.66000	0.47000					
Unit	ON, per	•	m.d.	m.d.			μ			nr		kg		kg g	+++ 	lit					
Description	AIR-VALVE BOX INSTALLATION, per nr	I) Labour	Plumber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	3) Material	Reinforced concrete pipe,	DN 1,050 mm	Manhole cover, D 1,250 mm	checkered plate, t=3.2 mm	Steel belt, 50B x 3.2 t	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	Total
Item No.	76. AIR.	(T				2)			3)									4			

			( ( ( )		)			
Item No.	Description	Unit	Quantity		ncy (US\$)	Local Currency (Rs)	cy (Rs)	Remarks
	10 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 m		:	Unit Price	Amount	Unit Price	Amount	
77. AIR-VA	77. AIR-VALVE (25 mm SINGLE ORIFICE) INSTALLATION, per nr	RIFICE)	INSTALLA	TION, per nr				
1) Labour	bour							
Plur	Plumber	m.d.	0.20		•	240.000	48.00	
Con	Common labour	m.d.	0.40		•	170.000	00.89	
Sub	Sub-total				•		116.00	
2) Eqn	2) Equipment							
Air	Air-valve, 25 mm single	ш	1.00	425.000	425.00	582.250	582.25	
onifice	ice							
Sub	Sub-total				425.00		582.25	
3) Ma	3) Materials				ı		i	
4) Mis	4) Miscellaneous (5% of 1+2)				21.25		34.91	
Tot	Total of (1+2+4)				446.25		733.16	
Ove	Overhead and profit (20%)				89.25		146.63	
Total	31				535.50		879.79	

Item No	Description	Unit	Onantity	Jantity Foreign Currency (115\$)	V (1158.)	Local Currency (Re)	ncv (Re)	Remarks
real ivo.	Description		Cuaintry	Unit Price A	Amount	Unit Price	Amount	NCIIIGI KS
78. VALVE	78. VALVE BOX INSTALLATION (DN 150 mm, WASHOUT IN RAW WATER MAIN)	N 150 m	m, WASHO	UT IN RAW W	ATER MA	VIN)		
1) Labour	our .							
Plur	Plumber	m.d.	0.03000		J	240.000	7.20	
Con	Common labour	m.d.	0.14700		J	170.000	24.99	
Sub	Sub-total				)		32.19	
2) Eq.	2) Equipment				J		1	
3) Material	terial							
Rei	Reinforced concrete pipe,	nr	1.00000		1	700.000	700.00	
DN	DN 600 x 0.60 m							
Maı	Manhole cover, D 800 mm	kg	21.20000	1.034	21.92	14.870	315.24	
che	checkered plate, t=3.2 mm							
Stee	Steel belt and chain	Х 29	5.50000	0.622	3.42	8.950	49.23	
Sub	Sub-total				25.34		1,064.47	
4) Mis	4) Miscellaneous (5% of 1+3)				1.27		54.83	
Tot	Total of (1+3+4)				26.61		1,151.49	
Ove	Overhead and profit (20%)				5.32		230.30	
Total	al				31.93		1,381.79	

				7717		)				
•	Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	Remarks	ļ
'	79. SLUIC	79. SLUICE GATE INSTALLATION, DN 800 mm. per nr	008 N	mm, per nr						
	1) L	1) Labour								
	بتر	Foreman	m.d.	0.02890		Í	350.000	10.12		
	3	Operator	m.d.	0.14620		r	300.000	43.86		
	V	Asst. operator	m.d.	0.04930		r	220.000	10.85		
	<del>p.</del> (	Plumber	m.d.	1.72480		ſ	240.000	413.95		
	0	Common Labour	m.d.	3.46720		r	170.000	589.42		
	S	Sub-total				ſ		1.068.20		
	2) E	2) Equipment								
	I	Truck crane, 16 ton	hr	0.95200	15.400	14.66	42.200	40.17		
٠	S	Sub-total				14.66		40.17		
	3) 18	3) Materials								
	1	Diesel oil	lit	7.42600	0.520	3.86	0.360	2.67		
	Щ	Engine oil	11	0.29700	2.410	0.72	1.650	0.49		
	S	Sub-total				4.58		3.16		
	4) N	4) MIscellaneous (5% of 1+2+3)				96.0		55.58		
	I	Total of (1+2+3+4)				20.20		1,167.11		
	J	Overhead and profit (20%)				4.04		233.42		
	<b>End</b>	Total				24.24		1,400,53		

Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	Remarks
80. SLUICE G	80. SLUICE GATE INSTALLATION, 500 x 500 mm	500 x 50	0 mm, per nr					
1) Labour	ur							
Driver	·	m.d.	0.20120		ı	240.000	48.29	
Plumber	er	m.d.	1.61040		1	240.000	386.50	
Comn	Common labour	m.d.	2.32320		1	170.000	394.94	
Sub-total	otal				•		829.73	
2) Equipment	pment							
Truck	Truck crane, 4.9 ton	hr	1.31000	8.600	11.27	23.600	30.92	
Sub-total	otal				11.27		30.92	
3) Materials	rials							
Diesel oil	l oil	II	7.07400	0.520	3.68	0.360	2.55 5.4 l/h	
Engine oil	ie oil	Ħ	0.28300	2.410	99.0	1.650	0.47	
Sub-total	otal				4.36		3.02	
4) Misce	4) Miscellaneous (5% of 1+2+3)				0.78		43.18	
Total	Total of (1+2+3+4)				16.41		906.85	
Overh	Overhead and profit (20%)				3.28		181.37	
Total					19.69		1,088.22	

:								
Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$)	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	Remarks
1. SLUICE GA	81. SLUICE GATE INSTALLATION, 400 x 400 mm, per nr	100 x 40	0 mm, per n					
1) Labour								
Driver		m.d.	0.18580		ı	240.000	44.59	
Plumber		m.d.	1.55760		•	240.000	373.82	
Common labour	labour .	m.d.	1.76000		•	170.000	299.20	
Sub-total	~==				1		717.61	
2) Equipment	ent							
Truck cr.	Truck crane, 4.9 ton	hr	1.20960	8.600	10.40	32.600	39.43	
Sub-total		*.			10.40		39.43	
3) Materials	als						٠.	
Diesel oil		Ħ	6.53200	0.520	3.40	0.360	2.35	
Engine oil	ii	lit	0.26100	2.410	0.63	1.650	0.43	
Sub-total	T-				4.03		2.78	
4) Miscella	4) Miscellaneous (5% of 1+2+3)				0.72		37.99	
Total of	Total of (1+2+3+4)				15.15		797.81	
Overhea	Overhead and profit (20%)				3.03		159.56	
Total					18.18		957.37	

Remarks																	
Rem																	
ncy (Rs) Amount			42.72	367.49	263.30	673.51		37.78	37.78		2.25	0.41	2.66	35.70	749.65	149.93	899.58
Local Currency (Rs) Unit Price Amour			240.000	240.000	170.000			32.600			0.360	1.650					
ancy (US\$) Amount			ı	1	1	1		76.6	26.6		3.26	09.0	3.86	0.69	14.52	2.90	17.42
Foreign Currency (US\$ Unit Price Amount								8.600			0.520	2.410					
Quantity	0 mm, per r		0.17800	1.53120	1.54880			1.15900			6.26000	0.25000					
Unit	350 x 35		m.d.	m.d.	m.d.			hr			lit	lit		_			
Description	82. SLUICE GATE INSTALLATION, 350 x 350 mm, per nr	our	'er	Plumber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	al
Item No.	82. SLUICE	1) Labour	Driver	Plun	Con	Sub	2) Equ	Truc	qnS	3) Mai	Dies	Eng	qnS	4) Mis	Tota	Ove	Total

7	7, -1, 1		(#311)		(90)	a
Description	Unit	Quantity	Foreign Currency (US\$) Unit Price Amount	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	
83. SLUICE GATE INSTALLATION, 300 x 300 mm, per nr 1) Labour	00 x 30	0 mm, per r	Ħ			
	m.d.	0.17200	•	240.000	41.28	αn
	m.d.	1.50480	ı	240.000	361.15	10
	m.d.	1.53120	1	170.000	260.30	
			1		662.73	
	hr	1.12000	8.600 9.63	32.600	36.51	
			9.63		36.51	
	lit	6.04800	0.520 3.14	0.360	2.18	
	lit	0.24200	2.410 0.58	1.650	0.40	_
			3.72		2.58	~~I
4) Miscellaneous (5% of 1+2+3)			0.67		35.09	_
			14.02		736.91	
Overhead and profit (20%)			2.80		147.38	
			16.82		884.29	<b>~</b> !

Description         Unit         Quantity         Foreign Currency (US\$)         Local Currency (Rs)         Remarks           Unit Price         Amount         Unit Price         Amount	84. HEADSTOCK INSTALLATION, (TYPE A), per nr	i	er m.d. 0.20000 - 240.000 48.00	on labour m.d. 0.20000 - 170.000 34.00	82 <u>.00</u>	ment	ials	llaneous (5% of 1)	of (1+4) - 86.10	ead and profit (20%)	- 103.32
Item No. Description	84. HEADSTOCK INSTALL	1) Labour	Plumber	Common labour	Sub-total	2) Equipment	3) Materials	4) Miscellaneous (5% of 1)	Total of (1+4)	Overhead and profit (20%)	Total

(Dc) Domarke				39.00	48.00	34.00	121.00		34.49	34.49		2.06	0.38	2.44	7.90	165.83	33.17	
I ocal Currency (Be)	Unit Price An			240.000	240.000	170.000			32.600			0.360	1.650					
(110¢)	Amount			1	1	1	ı		9.10	9.10		2.97	0.55	3.52	0.63	13.25	2.65	
Foreign Currency (118¢	Unit Price A	<u>rnr</u>							8.600			0.520	2.410					
Ousntity	Zudulliy	AND C), pe		0.16250	0.20000	0.20000			1.05800			5.71300	0.22900					
114		TYPE B		m.d.	m.d.	m.d.			hr			lit	lit		_			
Description	Losoi ipuon	85. HEADSTOCK INSTALLATION (TYPE B AND C), per nr	our	×	ber	Common labour	total	ipment	Truck crane, 4.9 ton	total	erial	el oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	
Item No	rem ivo.	85. HEADST	1) Labour	Driver	Plumber	Com	Sub-total	2) Equipment	Trucl	Sub-total	3) Material	Diesel oil	Engi	-qnS	4) Misc	Total	Over	

Remarks																	
sy (Rs)	Amount		5.98	17.95	21.69	45.62		5.29	5.29		0.32	90.0	0.38	2.56	53.85	10.77	64.62
len	Onn Price		240.000	240.000	170.000			32.600			0.360	1.650					
cy (US\$)	Amonni		ı	ı	1	ı		1.40	1.40		0.46	0.08	0.54	0.10	2.04	0.41	2.45
Foreign Currency (US\$								8.600			0.520	2.410					
Quantity	ner m		0.02490	0.07480	0.12760			0.16240			0.87700	0.03500					
Unit	m RCP)		m.d.	m.d.	m.d.			hr			lit	lit					
Description	PIPEL AVING WORK (DN 600 mm RCP) ner m	our series of the series of th	/er	Plumber	Common labour	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	al
Item No.	86 PIPELA	1) Labour	Driver	Plur	Con	QnS	2) Eq1	Truc	Sub	3) Ma	Die	Eng	Sub	4) Mis	Tot	Ove	Total

					)		:	
Item No.	Description	Unit	Quantity	Foreign Currency (US\$	3 (US\$)	Local Currency (Rs)	cy (Rs)	Remarks
				Unit Price A	Amount	Unit Price	Amount	
87. PIPELAYIN	87. PIPELAYING WORK, (DN 450 mm, RCP) per m	n, RCP	per m					
1) Labour	L.							
Driver		m.d.	0.02240		ı	240.000	5.38	
Plumber	ı	m.d.	0.05970		ı	240.000	14.33	
Сошше	Common labour	m.d.	0.09530		1	170.000	16.20	
Sub-total	al				1		35.91	
2) Equipment	ment							
Truck	Truck crane, 4.9 ton	hr	0.14560	8.600	1.25	32.600	4.75	
Sub-total	al				1.25		4.75	
3) Materials	ials						,	
Diesel oil	II.	lit	0.78600	0.520	0.41	0.360	0.28	
Engine oil	oil	lit	0.03100	2.410	0.07	1.650	0.05	
Sub-total	al				0.48		0.33	
4) Miscell	4) Miscellaneous (5% of 1+2+3)				0.09		2.05	
Total of	Total of (1+2+3+4)				1.82		43.04	
Overhe	Overhead and profit (20%)				0.36		8.61	
Total					2.18		51.65	

Remarks																	
cy (Rs) Amount			4.75	10.94	11.54	27.23		4.21	4.21		0.25	0.05	0.30	1.59	33.33	6.67	40.00
Local Currency (Rs) Unit Price Amour			240.000	240.000	170.000			32.600			0.360	1.650					
ncy (US\$) Amount			ı	1	ı	ı		1.1	1.11		0.36	0.07	0.43	0.08	1.62	0.32	1.94
Foreign Currency (US\$ Unit Price Amount								8.600			0.520	2.410					
Quantity	per m		0.01980	0.04560	0.06790			0.12900			0.69700	0.02900					
Unit	ım, RCP)		m.d.	m.d.	m.d.			hr			ΙΪ	lit					
Description	PIPELAYING WORK, (DN 300 mm, RCP) per m	our		ber	Common labour	iotal	pment	Truck crane, 4.9 ton	total	crials	il oil	ie oil	total	4) MIscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	
Item No.	88. PIPELAY	1) Labour	Driver	Plumber	Comr	Sub-total	2) Equipment	Truck	Sub-total	3) Materials	Diesel oil	Engine oil	Sub-total	4) MIsc	Total	Overl	Total

Item No.	Description	Unit	Unit Quantity	Foreign Currency (US\$) Local Currency (Rs)	18\$)	Local Curren	icy (Rs)	Remarks
		:		Unit Price Amount	nt	Unit Price Amount	Amount	!
89. MANHOL	89. MANHOLE CONCRETE BLOCK Type A ( \$600 x \$1,200 x 600 H) per 1 nr	Type A	φ x 009φ)	1,200 x 600 H) per 1				
Солс	Concrete, class F, C30/10	m3	0.30000	118.020 35	35.41	1,126.890	338.07	
Form	Formwork, Type F2	т2	4.42000	6.600 29	29.17	361.000	1,595.62	
Rein	Reinforcing bar	kg	00080.9	0.748	4.55	1.862	11.32	
Total				59	69.13		1,945.01	

Remarks						
ncy (Rs)	Amount		304.26	1,783.34	14.02	2,101.62
Local Currency (Rs)	Unit Price Amount		1,126.890	361.000	1.862	
ency (US\$)	Amount		31.87	32.60	5.63	70.10
Foreign Currency (US\$)	Unit Price Amount	0 H)	118.020	9.600	0.748	
Unit Quantity		(\$1,200 x 60	0.27000	4.94000	7.53000	
Unit		pe B	m3	m2	Řg g	
Description		90. MANHOLE CONCRETE BLOCK Type B (\$1,200 x 600 H)	Concrete, class F, C30/10	Formwork, Type F2	Reinforcing bar	al
Item No.		90. MANHO	Con	For	Rei	Total

Tr. M.	£					<b>C</b>	É	-	
Item No.	Description	Onit	Quantity	Foreign Currency (US\$) Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Rcmarks	
91. HANDRA	91. HANDRAIL INSTALLATION, (DN 40, GSP), per m	40, GS	P), per m						
1) Labour	our								
Skilft	Skilful labour	m.d.	0.0672		i	240.000	16.13		
Com	Common labour	m.d.	0.0672		ı	170.000	11.42		
Sub-total	total				ı		27.55		
2) Equipment	pment				1		ı		
3) Materials	erials								
Steel	Steel pipe, DN 40	х 89	12.0000	0.7960	9.55	5.990	71.88		
Flat b	Flat bar, $125 B x t = 9 mm$	자 20	0.9000	0.7800	0.70	11.600	10.44		
Chair	Chain, dia 8 and dia 3	Хg	0.0030	0.5850	0.00	4.410	0.01		
Sub-total	total				10.25		82.33		
4) Misc	4) Miscellaneous (5% of 1+3)				0.51		5.49		
Total	Total of (1+3+4)				10.76		115.37		
Over	Overhead and profit (20%)				2.15		23.07		
Total					12.91		138.44		

Unit
т.d. 0.2500
m.d. 0.2500
kg 49.1000
kg 2.0000
kg 1.1300
kg 23.4000

						!	!	:
Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$)	Local Currency (Rs)	ncy (Rs) Amount	Remarks
93. ROOF RIG	93. ROOF RIGHT INSTALLATION, (600 mm x 600 mm), per nr	300 mm	x 600 mm),					
1) Labour	ı			•				
Skilful labour	labour	m.d.	0.2000		ı	240.000	48.00	
Сошш	Common labour	m.d.	0.2010		t	170.000	34.17	
Plasterer	er	m.d.	0.0015		ì	220.000	0.33	
Sub-total	tal				1		82.50	
2) Equipment	ment				•		ı	
3) Material	ial							
Prism §	Prism glass block, 120x120x40	Ħ	16.0000	5.5300	88.48	15.150	242.40	
Frame	Frame $600 \times 600$	nr	1.0000	253.8500	253.85	695.550	695.55	
Portlan	Portland cement	kg	17.5700	0.1120	1.97	0.077	1.35	
Sand for	Sand for mortar (1:2)	m3	0.0230	16.6400	0.38	152.000	3.50	
Sub-total	tal				344.68		942.80	
4) Miscel	4) Miscellaneous (5% of 1+3)				17.23		51.27	
Total o	Total of (1+3+4)				361.91		1,076.57	
Overhe	Overhead and profit (20%)				72.38		215.31	
Total					434.29		1,291.88	

Item No.	Description	Unit	Quantity	임	icy (US\$)	Local Currency (Rs)	ıcy (Rs)	Remarks	
			;	Unit Price A	Amount	Unit Price	Amount		ļ
ROAD P.	99. ROAD PAVEMENT, (ASPHALT) per m2	per m2							
1) Ear	I) Earthwork								
/01 Ope	/01 Open-cut excavation, bulldozer	m3	0.3800	2.1200	0.81	11.470	4.36		
/02 Surp	/02 Surplus soil disposal, L=5km	m3	0.3800	3.4800	1.32	19.400	7.37		
Sub	Sub-total				2.13		11.73		
2) Sub	2) Subbase course work								
/01 Low	/01 Lower layer, coarse stone,	m2	1.0000	17.2000	17.20	157.200	157.20		
t = 2	t = 20 cm including subgrade								
prep	preparation								
/02 Upp	/02 Upper layer, crusher run,	m2	1.0000	11.8000	11.80	108.000	108.00		
t = 5 cm	cm								
/03 Lev	/03 Levelling layer, $t = 3$ cm	m2	1.0000	7.8000	7.80	71.200	71.20		
Sub	Sub-total				36.80		336.40		
3) Asp	3) Asphalt pavement								
/01 Prin	/01 Prime coat, 1.21/m2	m2	1.0000	1.3000	1.30	12.100	12.10		
/02 Asp	/02 Asphalt pavement	m2	1.0000	10.3000	10.30	94.800	94.80		
Sub	Sub-total				11.60		106.90		
Total	Te.				50.53		455.03		

S) Remarks unt				95.92	643.28	13.41	752.61	20.69	14.75	35.44	788.05			11.52	3.69	15.21		5.95	1 (
Local Currency (Rs) Unit Price Amount				1,065.740	344.000 6	1.862	7	89.960	105.350		7			240.000	170.000			23.600	
ncy (US\$) Amount				10.03	11.78	5.39	27.20	•	1.43	1.43	28.63			•	i			2.17	1
Foreign Currency (US\$ Unit Price Amount				111.4600	6.3000	0.7480			10.2300									8.6000	
 Quantity				0.0900	1.8700	7.2000		0.2300	0.1400					0.0480	0.0217			0.2520	
Unit	,		nr	m3	m2	kg		m3	m3				•	m.d.	m.d.			hr	
Description	100. FOOTPATHS, per m2	ad	1,200 L x 600 W x 60t x 2	Concrete, class B	Formwork, Type F1	Reinforcing bar	Sub-total	Excavation, common soil	Crashed stone bedding	Sub-total	Total of Flag (per 1.44 m2)	2) Installation	our	Skilful labour	ver	Sub-total	/02 Equipment	Truck crane, 4.9 ton	,
Item No.	100. FOOTP	1) Flag	1,20	S	For	Rei	Sub	Ex	Ö	qnS	Tot	2) Inst	/01 Labour	Skil	Driver	Sub	/02 Equ	Truc	

Item No.	Description	Unit	Unit Quantity	Foreign Currency (US\$) Local Currency (Rs)	icy (US\$)	Local Curre	ncy (Rs)	Remarks
		:		Unit Price Amount	Amount	Unit Price	Amount	
/03 Materials	erials							
Diesel oil	i oil	lit	1.3600	0.5200	0.71	0360	0.49	
Engine oil	ne oil	Ϊ́τ	0.0540	2.4100	0.13	1.650	60:0	
Sub-total	total				0.84		0.58	
/04 Misc	/04 Miscellaneous (5% of 01+02+03)	03)			0.15		1.09	
Overi	Overhead and profit (20%)				0.63		4.57	
Total	Total of 01+02+03+04				3.79		27.40	
Tota	Total of (1+2) (per 1.44 m2)				32.42		815.45	
per m2	n2				22.51		566.28	

		77170		כייונג			:
Item No. Description	Ünit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	icy (Rs) Amount	Remarks
101. RUBBLE WORK, per m2					-		
1) Labour							
Foreman	m.d.	0.0251		ı	350.000	8.79	
Operator	m.d.	0.0258		ì	300.000	7.74	
Asst. operator	m.d.	0.0087		ı	220.000	1.91	
Stonemason	m.d.	0.0700		1	240.000	16.80	
Skilful labour	m.d.	0.0433		ı	240.000	10.39	
Common labour	m.d.	0.4322		ı	170.000	73.47	
Sub-total				1		119.10	
2) Equipment							
Truck crane, 16 ton	hr	0.0300	15.4000	0.46	42.200	1.27	
Sub-total				0.46		1.27	
3) Materials							
Rubble stone	m3	0.3500	8.3200	2.91	76.000	26.60	
Crushed stone	m3	0.3330	7.5300	2.51	68.800	22.91	
Diesel oil	lit	0.2340	0.5200	0.12	0.360	0.08	
Engine oil	lit	0.0000	2.4100	0.02	1.650	0.01	
Sub-total				5.56		49.60	
4) Miscellaneous (5% of 1+2+3)				0.30		8.50	

Remarks				
ncy (Rs)	Amount	178.47	35.69	214.16
Local Currency (Rs)	Unit Price Amount			
Foreign Currency (US\$)	Amount	6.32	1.26	7.58
Foreign Cur	Unit Price Amount			
Quantity				
Unit Qu				
Description		Total of (1+2+3+4)	Overhead and profit (20%)	al
Item No.		Tote	Ove	Total

			****					
Item No.	Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amour	ncy (Rs) Amount	Remarks
102. KERB	102. KERB GUTTER (L-TYPE) INSTALLATION, per m	LLAT	ION, per m					
1) Ear	1) Earthwork							
/01 Ope	/01 Open-cut excavation, manpower	m3	0.1700		ı	89.960	15.29	
/02 Backfilling	kfilling	m3	0.0400	0.0500	ı	28.180	1.13	
/03 Sur	/03 Surplus soil excavation	m3	0.1300	3.4800	0.45	19.400	2.52	
/04 Cru	/04 Crushed stone bedding	m3	0.0500	10.2300	0.51	105.350	5.27	
Sub	Sub-total				96.0		24.21	
2) Cor	2) Concrete work							
/01 four	/01 foundation concrete, class E	m3	0.0500	105.2200	5.26	990.670	49.53	
/02 For	/02 Formwork, Type F2	m2	0.2000	6.3000	1.26	361.000	72.20	
/03 Moi	/03 Mortar plastering, 1:3	m3	0.0100	89.7200	06.0	526.800	5.27	
Sub	Sub-total				7.42		127.00	
3) Ker	3) Kerb-gutter, L-type	nr						
/01 Con	/01 Concrete, class B	m3	0.3300	111.4600	36.78	1,065.740	351.69	
/02 Fon	/02 Formwork, Type F2	m2	2.3100	6.3000	14.55	361.000	833.91	
/03 Rein	/03 Reinforcing bar	kg	1.1550	0.7482	0.86	1.862	2.15	
Sub	Sub-total				52.19		1,187.75	
Total	al				60.57		1,338.96	

	Remarks															
	cy (Rs)	Amount			68.47	122.30	25.22	25.28	241.27	٠	607.47	117.82	2,360.94	48.36	3,134.59	3,375.86
	len Len	Unit Price			12.140	28.180	19.400	105.350			1,065.740	981.850	361.000	1.862		
	cy (US\$)	Amount			12.86	0.22	4.52	2.46	20.06		63.53	12.51	41.20	19.43	136.67	156.73
	빔	Unit Price			2.2800	0.0500	3.4800	10.2300			111.4600	104.2200	6.3000	0.7482		
7717	Quantity		Dr		5.6400	4.3400	1.3000	0.2400			0.5700	0.1200	6.5400	25.9700		
	Unit		H), per		m3	m3	m3	m3			m3	т3	m2	kg		
	Item No. Description		103. DRAIN PIT (600 B x 600 B x 1000 H), per nr	1) Earthwork	/01 Open-cut excavation, backhoe	/02 Backfilling, manpower	/03 Surplus soil disposal	/04 Crash stone bedding	Sub-total	2) Concrete work	/01 Reinforced concrete, class B	Blind concrete, class D	/02 Formwork, Type F2	/03 Reinforcing bar	Sub-total	Total

	Remarks																					
	ncy (Rs) Amount			3,190.00	954.00	3,486.00	7,630.00	512.08			516.37	161.75	678.12		110.40	78.20	393.60	582.20		21.48	11.40	32.88
	Local Currency (Rs Unit Price Amour			638.000	477.000	498.000					89.960	28.180			240.000	170.000	240.000			23.600	11.400	
COTT & TA	ency (US\$) Amount			110.00	32.00	133.00	275.00	18.46			1	ŀ	ı		•	ı	1	ı		7.83	4.20	12.03
	Foreign Currency (US\$ Unit Price Amount	N), per m	= 14.9  m	22.0000	16.0000	19.0000														8.6000	4.2000	
77170	Quantity	STORATIO	3.3 m x 4.5	5.0000	2.0000	7.0000			n)		5.7400	5.7400			0.4600	0.4600	1.6400			0.9100	1.0000	
	Unit	L AND RE	rete (per	ш	ш	nr			(per 14.9 r		m3	m3			m.d.	m.d.	m.d.			hr	hr	
;	Description	104. FENCING WORK (REMOVAL AND RESTORATION), per m	1) Fence posts and trust concrete (per 3.3 m x $4.5 = 14.9$ m)	Fence post	Straining post	Strut concrete	Total of 1	Per linear metre	2) Removal of existing fence (per 14.9 m)	/01 Earth work	Excavation, manpower	Backfilling, manpower	Sub-total	/02 Labour	Skilful labour	Common labour	Driver	Sub-total	/03 Equipment	Truck crane, 4.9 ton	Truck, 6 ton	Sub-total
	Item No.	104. FENC	1) F(	juden(	V)	<i>.</i>	T	Ä	2) R	/01 E	<b>;-ii</b>	<del>,</del>	īS	/02 L	Ę.	ŭ	D	Š	/03 E	T	Ţ	S

Remarks																			
     		4	4	801	6	7	4	ωl			7	8	0	٧J		0	0	0	O
ncy (Rs) Amount		4.04	0.74	4.78	30.99	130.17	1,459.14	97.93			516.37	138.08	16.30	670.75		168.00	119.00	393.60	680.60
Local Currency (Rs) Unit Price Amoun		0.360	1.650								89.960	28.180	19.400			240.000	170.000	240.000	
ancy (US\$) Amount		5.83	1.08	6.91	0.95	3.98	23.87	1.60			•	ı	2.92	2.92		•	4	1	•
Foreign Currency (US\$ Unit Price Amount		0.5200	2.4100										3.4800						
Quantity		11.2100	0.4500			05)					5.7400	4.9000	0.8400			0.7000	0.7000	1.6400	
Unit		lit	lit		3+04)	of 02 to	90		14.9 m)		т3	m3	т3			m.d.	m.d.	m.d.	
Description	/04 Material	Diesel oil	Engine oil	Sub-total	/05 Miscellaneous (5% of 02+03+04)	/06 Overhead and profit (20% of 02 to 05)	Total of 01+02+03+04+05+06	Per linear metre (Removal)	3) Installation of Fence (per 14.9 m)	/01 Earth work	Excavation, manpower	Backfilling, manpower	Surplus soil disposal	Sub-total	/02 Labour	Skilful labour	Common labour	Driver	Sub-total
Item No.	/04 Mz	Die	En	Su	/05 Mi	vO 90/		<b>2</b> 3–113		/01 Ea	田	B	Ś	Su	/02 La	S	C	Q	Su

						j	
Item No. Description	Unit	Quantity	Foreign Currency (US\$ Unit Price Amount	ncy (US\$) Amount	Local Currency (Rs) Unit Price Amoun	ncy (Rs) Amount	Remarks
/03 Equipment		,					
Truck crane, 4.8 ton	hr	0.9100	8.6000	7.83	23.600	21.48	
Truck, 6.0 t	hr	1.0000	4.2000	4.20	11.400	11.40	
Sub-total				12.03		32.88	
/04 Material							
Galvanised steel barbed wire,	H	00000.09	1.2200	73.20	0.840	50.40	
12 gauge							
Diesel oil	lit	11.2100	0.5200	5.83	0.360	4.04	
Engine oil	lit	0.4500	2.4100	1.08	1.650	0.74	
Sub-total				80.11		55.18	
/05 Miscellaneous (5% of 02+03+04)	+04)			4.61		38.43	
/06 Overhead and profit (20% of 02 to 05)	of 02 to (	35)		19.35		161.42	
Total of (01+02+03+04+05+06)	<b>(</b>			119.02		1,639.26	
Per linear metre (Installation)	_			7.99		110.02	
4) Fencing (Removal and Restration) (Removal + Cost of posts + Installation)	E	·		28.05		720.03	
5) Removing Fence	E			1.60		97.93	
6) Fencing (Installation)	E			26.45		622.10	

Remarks																	
cy (Rs) Amount			1.99	3.50	3.55	9.04		1.27	1.27		0.11	0.02	0.13	0.52	10.96	2.19	, ,
Local Currency (Rs) Unit Price Amour			240.000	240.000	170.000			23.600			0.360	1.650					
ncy (US\$)			ı	1		ı		0.46	0.46		0.15	0.03	0.18	0.03	0.67	0.13	0
Foreign Currency (US\$ Unit Price Amount								8.6000			0.5200	2.4100					
Quantity	N 600 mm)		0.0083	0.0146	0.0209			0.0540			0.2920	0.0120					
Unit	PIPE, (I		m.d.	m.d.	m.d.			hr			lit	lit					
Description	107. REMOVAL OF DUCTILE IRON PIPE, (DN 600 mm), per m	our	eī	ıber	шош	Sub-total	2) Equipment	Truck crane, 4.9 ton	Sub-total	erials	Diesel oil	Engine oil	Sub-total	4) Miscellaneous (5% of 1+2+3)	5) Total of (1+2+3+4)	Overhead and profit (20%)	ı
Item No.	107. REMOV	I) Labour	Driver	Plumber	Соштоп	Sub-	2) Equ	Truc	Sub-	3) Materials	Dies	Engi	Sub-	4) Misc	5) Tota	Ove	E

	Remarks																	
	cy (Rs) Amount			1.80	4.80	5.41	12.01		1.16	1.16	•	0.10	0.02	0.12	99.0	13.95	2.79	16.74
	Local Currency (Rs) Unit Price Amour			240.000	240.000	170.000			23.600			0.360	1.650					
	ncy (US\$) Amount			•	ŧ	ı	I		0.42	0.42		0.14	0.03	0.17	0.03	0.62	0.12	0.74
or contraction	Foreign Currency (US\$ Unit Price Amount								8.6000			0.5200	2.4100					
77.10	Quantity	50 mm, per m		0.0075	0.0200	0.0318			0.0490			0.2650	0.0110					
	Unit	PE, DN 45		m.d.	m.d.	m.d.			hr			Iit	lit		<b>3</b>			
	Description	108. REMOVAL OF CONCRETE PIPE, DN 450	ur		er	Common labour	otal	oment	Truck crane, 4.9 ton	otal	rial	oil	e oil	otal	4) Miscellaneous (5% of 1+2+3)	Total of (1+2+3+4)	Overhead and profit (20%)	
	Item No.	108. REMOVA	1) Labour	Driver	Plumber	Сошп	Sub-total	2) Equipment	Truck	Sub-total	3) Material	Diesel oil	Engine oil	Sub-total	4) Misce	Total	Overh	Total

Item No.	Description	Unit	Quantity	Foreign Currency (US\$) Unit Price Amount	(US\$)	Local Currency (Rs) Unit Price Amour	cy (Rs) Amount	Remarks	
109. GUARD-R	109. GUARD-RAIL SETTING, per m								
1) Labour	Ŀ								
Commo	Common labour	m.d.	0.1700		ı	170.000	28.90		
Sub-total	al				1		28.90		
2) Equipment	nent				1		ı		
3) Material	a]								
Guard-r.	Guard-rail galvanised, 3.2 t x	Ħ	1.0000	49.2000	49.20	67.400	67.40		
350 W >	350 W x 4,330 L (19.8 kg/m)								
Sub-total	ai			•	49.20		67.40		
4) Miscell	4) Miscellaneous (5% of 1+3)				2.46		4.82		
Total of 1+3+4	1+3+4				51.66		101.12		
5) Overhe	5) Overhead and profit (20%)				10.33		20.22		
Total					61.99		121.34		



