

ANDHRA PRADESH

(INDIA)

**PROJECT REPORT
NALGONDA DISTRICT**

**P
RWS
E NAP
D AP-III**

**C.P.W.S. Scheme to 226 Revenue
Villages and 337 Hamlets in Nalgonda
District, ANDHRA PRADESH.**

ESTIMATE COST Rs. 9742 lakhs

VOLUME-II ANNEXURES

**Chief Engineer
Rural Water Supply
Panchayat Raj Engineering Department
Govt. of Andhra Pradesh.**

ANNEXURES

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ANNEXURE-1

**PANCHAYAT RAJ INTERNAL WATER QUALITY MONITORING LABORATORY UPPAL
HYDERABAD.**

Received from: Dy.Executive Engineer, Nalgonda.

Date Received: 29.6.1989. District:Nalgonda.

Sl. No.	Lr. Ref. No.	Particulars.	Name of the village	Name of the Mandal	Date of collection	P.H.	Electrical conductivity micromhos.	Total Dissolved solids.	Total Hardness as CaCO ₃	Flouride	Chlo-Nitride rate	Sulphate	Iron as FC	Total
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	2184	N.G.Sagar Canal Water	Nidamanoor	Nidamanoor	21.6.89	7.51	337	206	136	0.6	52	Drent	Nil	120
													Nil	Satisfactory
1.	2185	5"Ø Bore well PWS Scheme (Proposed)	Vottimarthy	Chityal	27.6.87	7.40	960	592	340	1.8	100	-	-	384
													-	Excess Flouride

Note:- Specimen No. 2185 contains labricent Oil mixing after flushing the bore well the fresh water may be collected and sent to this laboratory for analysis.

Sd/- Dy. Executive Engineer(PR),
Nalgonda.

Sd/- Junior Water Analyst.

//True Copy//

Sd/- x x x,
Executive Engineer,
(PR) Nalgonda.

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ANNEXURE-2

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

UPPAL, HYDERABAD.

RECEIVED FROM : *M/S. Raj, Water pump*
(S) Btd. Secund DATE RECEIVED : 21.3.90DISTRICT : *Medak*

Sl. No.	LAB. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm 25°C	Total Dissolved Solids mg/lit	Total Alkalinity as CaCO ₃ mg/lit	Total Hardness as CaCO ₃ mg/lit	Fluoride as F mg/lit	Chloride as Cl mg/lit	Nitrate as NO ₃ , mg/lit	Nitrite as NO ₂ , mg/lit	Sulphate as SO ₄ , mg/lit	Iron as Fe mg/lit	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
8	274	Borewell - V. Gopal R. Anish House	Ipparthi	Mungode	20 ³ / ₉₀	7.49	2380	145	488	590	2.0	510	-	Point here	-	-	-	Excess Fluoride & Nitrite
9	295	Borewell - C. Veeriah S. Muthiah	-do-	-do-	-do-	7.66	1679	1025	380	372	4.0	312	-	Trace Point	-	-	-	Excess Fluoride
10	276	Borewell - Veera Venkaiah House	Laxmideni gudem	-do-	-do-	7.71	1396	852	452	372	3.6	128	-	Nil here	-	-	-	Excess Fluoride
11	277	Borewell - B. Yellaiah	-do-	-do-	-do-	7.76	1612	984	540	44	3.4	164	-	Point here	-	-	-	Excess Fluoride
12	298	Borewell - S. Muthy House	his	Dubbalava	-do-	7.68	1330	81	512	148	3.2	196	-	Nil here	-	-	-	Excess Fluoride
13	299	Borewell - S. Chand Babu House	-do-	-do-	-do-	7.80	1310	780	518	164	3.8	108	-	Nil here	-	-	-	Excess Fluoride
14	300	Borewell - D. Ramachand Reddy	-do-	-do-	-do-	7.79	1324	800	540	336	2.4	96	-	Nil here	-	-	-	Excess Fluoride

R. Partha Sarathy
Junior Water Analyst

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

(21) - 30 UPPAL, HYDERABAD

RECEIVED FROM : DEE PR Chintapally DATE RECEIVED : 17.8.85

DISTRICT : Nalgonda

Sl. No.	Lab. Ref. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm 25°C	Total Dissolved Solids mg/lit.	Total Alkalinity as CaCO ₃ mg/lit.	Total Hardness as CaCO ₃ mg/lit.	Fluoride as F mg/lit.	Chloride as Cl Mg/lit.	Nitrite as NO ₂ mg/lit.	Sulphate as SO ₄ mg/lit.	Iron as Fe mg/lit.	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

15	2532	Borwell - Chandrabudhi	Chintapally	Gurram-puri	-	7.62	1203	734	456	324	3.6	108	NIL	NIL	NIL	Excess of Fluoride
16	2533	Borwell - Jainai	Chintapally	-do-	-	7.56	965	589	344	322	1.5	96	NIL	NIL	NIL	Satisfactory
17	2534	Borwell - Mandal Office	Gurram-puri	-do-	-	7.52	1071	654	440	234	4.0	124	NIL	NIL	NIL	Excess of Fluoride

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

UPPAL, HYDERABAD.

RECEIVED FROM: M/s. Enlay Water Pump
(P) Ltd Secbad

DATE RECEIVED: 21-3-90

DISTRICT: Nalgonda

Sl. No.	LAB. Ref. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm 25°C	Total Dissolved Solids mg/lit	Total Alkalinity as CaCO ₃ mg/lit	Total Hardness as CaCO ₃ mg/lit	Fluoride as F mg/lit	Chloride as Cl mg/lit	Nitrate as No ₃ mg/lit	Nitrite as No ₂ mg/lit	Sulphate as SO ₄ mg/lit	Iron as Fe mg/lit	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
22	306	Borwell - Rayanna House	Kammasguda	Munguda	20/3/90	7.22	2370	1446	50	510	1.6	450	-	Nil	Nil	Nil	Excess Fluoride
23	307	Borwell - G. Maikalath G. Papaiah House	do	do	do	7.22	3400	2074	708	760	4.4	820	-	Nil	Nil	Nil	Excess TDS, Total Hardness & Fluoride
24	310	Borwell - Church	do	do	do	7.88	2810	1715	804	610	4.8	430	-	Nil	Nil	Nil	Excess TDS, Total Hardness & Fluoride
25	311	Borwell - Church	do	do	do	7.51	2400	1664	760	590	1.4	320	-	Nil	Nil	Nil	Satisfactory
26	312	Borwell - Richardar House	Jakaloni	guda	do	7.49	653	399	228	220	1.6	48	-	Nil	Nil	Nil	Excess Fluoride
27	313	Borwell - D. Mallesh	do	do	do	7.46	925	565	344	280	1.8	100	-	Nil	Nil	Nil	Excess Fluoride
28	314	Borwell - K. Yadugiri G. Usarath House	Kachada	puram	do	7.50	857	523	336	300	1.6	60	-	Nil	Nil	Nil	Excess Fluoride

R. Parth Sarathy
Junior Water Analyst

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

(9)

UPPAL, HYDERABAD.

RECEIVED FROM : DEE/PR, Chintapally DATE RECEIVED : 29.6.89

DISTRICT : NCG.

Sl. No.	LAB. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm 25°C	Total Dissolved Solids mg/lit.	Total Alkalinity as CaCO ₃ mg/lit.	Total Hardness as CaCO ₃ mg/lit.	Fluoride as F mg/lit.	Chloride as Cl mg/lit.	Nitrite as NO ₂ mg/lit.	Nitrate as NO ₃ mg/lit.	Sulphate as SO ₄ mg/lit.	Iron as Fe mg/lit.	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
8	2122	Borwell - Cronnallaunda	Vottipally	Marriguda	-	7.52	1012	620	348	356	4.4	100	NIL	NIL	NIL		Exceeds Fluoride
9	2125	Borwell - Crollaunda.	Narasimhar pur	-do-		7.61	333	237	164	204	4.4	32	NIL	NIL	NIL		-do-
10	2120	Borwell - Azzalapuram		-do-		7.56	2730	1666	492	850	2.0	410	NIL	Part	NIL		Exceeds TDS Exceeds Fluoride
11	2131	Borwell - near Yellareddy House	Shammach pally.	-do-		7.42	582	355	234	240	2.8	48	NIL	NIL	NIL		Exceeds Fluoride
12	2132	Borwell - Hajjauunda.	Bhattapally	-do-		7.48	665	406	300	133	2.8	40	NIL	NIL	NIL		-do-
13	2133	Borwell - Raghyanaik Tandu	Anthampet	-do-		7.36	1574	839	404	348	4.0	168	Trace	NIL	NIL		-do-
14	2134	Borwell - Bhiksha Tandu	Somera guda.	-do-		7.48	1006	614	460	300	5.2	72	NIL	NIL	NIL		-do-
15	2135	Borwell - chintla Kudi bore -	Dandurthy	-do-		7.51	1139	695	368	204	4.8	92	NIL	NIL	NIL		-do- Junior Water Analyst

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

(15)

UPPAL, HYDERABAD.

RECEIVED FROM: D.E. PR/Chintapally

DATE RECEIVED: 29.6.89

DISTRICT: NLC.

Sl No	LAB. Ref. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MAHAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm 25°C	Total Dissolved Solids mg/lit.	Total Alkalinity as CaCO ₃ mg/lit	Total Hardness as CaCO ₃ mg/lit.	Fluoride as F mg/lit	Chloride as Cl Mg/lit	Nitrite as NO ₂ mg/lit	Sulphate as SO ₄ mg/lit	Iron as Fe mg/lit.	REMARKS
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
16	236	Borwell - Pailagudem H/O	Lankalapally	Marru - gudem		7.56	1631	995	396	340	2.8	228	NIL	Trace	NIL	Excess of Fluoride
17	237	Borwell - Suryanavil Tanks H/O	Anthampet	do		7.51	911	556	452	268	2.8	52	NIL	NIL	NIL	do
18	238	Borwell - Kodagan Tanks	do	do		7.46	910	556	280	292	4.4	80	NIL	NIL	NIL	do
19	239	Borwell - near Rail Stand	do	do		7.42	1222	746	500	234	5.6	92	NIL	NIL	NIL	do
20	240	Borwell - near Hanuma Reddy House	Somnaji - gudem	do		7.50	1195	728	500	260	4.8	96	Trace	NIL	NIL	do
21	241	Borwell - Hanjau wada.	Kondur	do		7.44	760	464	344	276	4.4	52	NIL	NIL	NIL	do
22	242	Borwell - panumati Tanks.	do	do		7.46	784	479	304	224	2.8	56	NIL	NIL	NIL	do
23	243	Borwell - near School	Kottala	do		7.52	814	497	352	228	2.4	56	NIL	NIL	NIL	do

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

(16)

UPPAL, HYDERABAD.

RECEIVED FROM: DEE/PR/Chintapally DATE RECEIVED: 29.6.87

DISTRICT: NLG

Sl. No.	LAB. Ref. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm 25°C	Total Dissolved Solids mg/lit.	Total Alkalinity as CaCO ₃ mg/lit.	Total Hardness as CaCO ₃ mg/lit.	Fluoride as F mg/lit.	Chloride as Cl Mg/lit.	Nitrite as No ₂	Sulphate as SO ₄ Iron as Fe mg/lit.	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
24	2144	Borwell - near Nona - Jangraich House	puream	Mamiguda	-	7.56	1300	793	464	332	3.6	144	NIL	NIL	NIL	Excess of Fluoride
25	2145	Borwell - Erdub - gurtem		-do-		7.47	1456	859	460	254	5.6	152	NIL	Trace	NIL	-do-
26	2146	Borwell - Bejya Tandra H.O	DBpally	-do-		7.36	1856	1133	540	256	5.2	224	NIL	NIL	NIL	-do-
27	2147	Borwell - Lankaipally		-do-		7.42	1553	948	440	294	2.4	220	NIL	Trace	NIL	-do-
28	2148	Borwell - Bejya Tandra H.O	DBpally	-do-		7.48	1851	1130	500	268	5.2	220	NIL	NIL	NIL	-do-
29	2149	Borwell - Paka Rajah Houel - Pakaudem H.O.		Lankaipally	-do-	7.50	1300	793	520	236	5.2	132	NIL	NIL	NIL	-do-
30	2150	Borwell -		DBpally	-do-	7.49	1647	1005	548	276	5.2	216	NIL	NIL	NIL	-do-

A7

Contd: P-5
Junior Water Analyst

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

(17)

UPPAL, HYDERABAD.

RECEIVED FROM: DEE.P.R. Chentapally

DATE RECEIVED: 29.6.29

DISTRICT: N.L.G.

Sl. No.	LAB. Ref. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity microhmios/cm 25°C	Total Dissolved Solids mg/lit.	Total Alkalinity as CaCO ₃ mg/lit	Total Hardness as CaCO ₃ mg/lit	Fluoride as F mg/lit	Chloride as Cl Mg/lit	Nitrite as NO ₂	Sulphate as SO ₄	Iron as Fe mg/lit.	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
31	2151	Borwell - Kammaguda. Ho-	DBPally	Manniguda.	-	7.32	2500	1220	462	296	2.8	328	Trace	NIL	NIL	Excess Fluoride
32	2152	Borwell - Reddy wada.	Cherlagudem	-do-	-	7.68	970	592	424	256	5.6	88	NIL	NIL	NIL	-do-
33	2153	Borwell -	Thandam pally	-do-	-	7.56	844	515	416	292	5.2	60	NIL	NIL	NIL	-do-
34	2154	Borwell - Gollamma.	Serampet	-do-	-	7.49	1344	820	552	244	6.0	140	NIL	Trace	NIL	-do-
35	2155	Borwell -	Munnor- gudem.	-do-	-	7.36	2110	1287	628	312	5.2	228	Trace	Trace	NIL	-do-
36	2156	Borwell -	Ramreddy- pally.	-do-	-	7.35	954	582	420	324	4.8	96	Trace	NIL	NIL	-do-

A8

Control: P-6.
Junior Water Analyst

PANCHAYATI RAJ INTERNAL WATER QUALITY MONITORING LABORATORY

(12)

UPPAL, HYDERABAD.

RECEIVED FROM : DEE, PR. Chintapally DATE RECEIVED : 29.6.89

DISTRICT : NLC.

Sl. No.	LAB. Ref. No.	PARTICULARS	NAME OF THE VILLAGE	NAME OF THE MANDAL	DATE OF COLLECTION	pH	Electrical Conductivity micromhos/cm, 25°C	Total Dissolved Solids mg/lit.	Total Alkalinity as CaCO ₃ mg/lit	Total Hardness as CaCO ₃ mg/lit.	Fluoride as F mg/lit	Chloride as Cl Mg/lit	Nitrite as NO ₂ Mg/lit	Sulphate as SO ₄ mg/lit.	Iron as Fe mg/lit.	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
37	2157	Borewell - Groundwater	Narsimha - system	Marriguda	-	7.41	1076	657	480	268	5.6	100	NIL	NIL	NIL	Excess Fluoride
38	2158	Borewell - Semmapet Tanka	Semmapet	-do-	-	7.46	1153	704	544	344	5.6	128	NIL	NIL	NIL	-
39	2159	Borewell -	Shivanna - guda	-do-	-	7.48	957	584	400	272	4.4	124	NIL	NIL	NIL	-

A. Subram

ANNEXURE-3

GOVERNMENT OF ANDHRA PRADESH
REVENUE DEPARTMENT

From

Sri.D.Janardhan Rao, I.A.S.,
Bistrict Collector,
NALGONDA.

To

The Chief Engineer,
R.W.S & Administration,
HYDERABAD.

LETTER NO. 38/2503/90.

DATED: 26.5.1990.

Sir,

Sub:- BILATERAL ASSISTANCE - G.P.W.S. Scheme -
for providing Water supply to 172 villages
and 261 hamlets in Nalgonda District - hadedover
of Rama Samudram Tank Fed by NS Left Canal
at 11/0 KM - near Alwal(V) to PR - Department - Reg.

Ref:- 1. C.E., RWS & Administration, Hyd.Lr.No.
25625/DJ3/Projects/87.dt: 11.3.90.
2. EE., I&CAD, IB Division, Nalgonda, Lr.No.
HD-1/235/24, dt: 10.4.1990.
3. RDO, Miryalguda, Lr.No.B/2479/90,
dated: 3.5.1990.

* * * *

I invite your attention to the references cited,
The Executive Engineer, Irrigation & Command Area Development,
I.B. Division, Nalgonda in his letter vide reference 2nd cited
informed this Office that he alongwith Executive Engineer
(Panchayat Raj) and the Revenue Divisional Officer, Miryalguda,
inspected the Rama Samudram tank and expressed his desire to
handover the tank alongwith the ayacut to Panchayat Raj Department
for Maintenance & Operation avoiding dual control (Copy enclosed).

The Revenue Divisional Officer, informed this
Office vide reference 3rd cited that he along with Executive
Engineer (O&M) Nagarjunasagar left Canal Miryalguda has inspe-
cted the Ramasamudram tank and recommended the proposal of
handing over the Ramasamudram Tank to Panchayat Raj Department
for utilising it for drinking water purpose and to extend the
existing irrigation facility.

Taking into consideration of all the aspects,
approval is hereby accorded for handing over the Ramasamudram
Tank at KM 11/0 at NS Left Canal near Alwala (V) to Panchayat
Raj Department for providing drinking water supply to 172
(Villages) and 261 hamlets in Nalgonda District which is under
submission to Government to pose under bilateral assistance of
Royal Netherlands Government with a request to provide alternate
arrangements for irrigation the balance ayacut at 24.10 hectares
which is irrigated under Ramasamudram Tank.

//ATTESTED//

541-

REVENUE ASSISTANT.

Copy to the Revenue Divl.Officer, Miryalguda. } For favour of
Copy to the Exe.Engineer (PR) Nalgonda. } information &
Copy to the Exe.Engineer (O&M) NSIC, Miryalguda } necessary action.

Copy to the Executive Engineer, I&CAD, IB, Divn, Nalgonda.
with a request to take necessary action to handover the
Ramasamudram Tank to P.R. Department and also to provide
alternate arrangements to Irrigate the balance ayacut at
24.10 Hectors which is under Ramasamudram Tank.

ANNEXURE-4.

PROJECTION OF S.S.R. FOR THE YEAR 1991-92

Sl. No.	Name of the item	Rates as per S.S.R.			Rates as per S.S.R.			Rates as per S.S.R.			Average % increased	Rate arrived for the year 91-92	R K
		87-88	88-89	% increased	88-89	89-90	% increased	89-90	90-91	% increased			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Materials</u>													
1.	R.R. Stone	20-00	22-00	10.00%	22-00	23-10	5.00%	23-10	24-50	6.06	7.02%	Rs. 26-22	
2.	C.R. S. Stone	29-50	32-50	10.16%	32-50	34-10	4.92%	34-10	34-10	-	5.02%	Rs. 35-81	
3.	40 mm Metal	46-80	46-00	2.56%	46-00	54-10	12.70%	54-10	59-50	9.98	8.41%	Rs. 64-50	
4.	20 mm Metal	81-40	89-50	9.95%	89.50	107-40	20.00%	107-40	116-15	10.00%	13.31%	Rs. 133-87	
5.	Sand for mortar	4-50	4-50	-	4-50	5-20	15.55%	5-20	5-45	4.80%	6.78%	Rs. 5-82	
6.	Sand for filling	2-50	2-80	12.00%	2-80	2-90	3.87%	2-90	3-00	3.44%	6.33%	Rs. 3-19	
7.	Gravel	3-50	4-00	16.66%	4-00	5-70	42.50%	5-70	6-85	20.17%	26.44%	Rs. 8-66	
8.	Rough stone	16-50	11-60	10.47%	11-60	12-20	5.17%	12-20	13-00	6.55%	7.39%	Rs. 13-96	
<u>Leads</u>													
1.	Sand 15 Km	21-70	21-70	-	21-70	23-70	9.21%	23-70	27-35	15.40%	8.20%	Rs. 29-59	
2.	Stone & Metal & rough Stone 10Km	19-65	19-65	-	19-65	21-50	9.41%	21-50	24-80	15.34%	8.25%	Rs. 26-84	
3.	Machine Crushed crushed metal 30 Km	29-15	29-15	-	29-15	35-60	22.12%	35-60	41-05	15.30%	12.47%	Rs. 46.16	
4.	Bricks 20 Km	43-20	43-20	-	43-20	47-30	9.49%	47-30	54-40	15.01%	-8.16%	Rs. 58.83	
5.	Blasting Charges	12-00	12-00	-	12-00	13-20	10.00%	13-20	14-50	9.84%	6.61%	Rs. 15-45	
6.	Gravel 4 Km	14-35	14-35	-	14-35	15-60	8.70%	15-60	16-05	15.70%	8.13%	Rs. 19-52	
<u>Centring Charges for Building</u>													
1.	Roof slab upto 150 mm thick	157.50	175-30	10.30	173-30	190-60	9.98	190-60	204-00	7-03	9-01	Rs. 223-38	

1	2	3	4	5	6	7	8	9	10	11	12	13
2.	Little/Bottom s slabs & bed Blocks	126.00	136.00	10-00	136-60	152-50	10-C2	152-50	163-00	6.89	8.97	ks. 177-62
3.	Sun Shades 0.60 m width	6.50	7.20	10-00	7.20	7-90	9-72	7-90	6-50	7.59	9.36	9-29
4.	Columns	201-56	221-70	16-02	221-70	243-90	16-01	243-90	261-00	7-01	9-01	284-51
5.	Scaffolding	6-50	7-20	10-00	7-20	7-90	9-72	7-90	6-30	5-06	8-26	6-98
<u>Labour Charges</u>												
1.	First class Mason & Brick layers & painter.	26-00	29-00	12-30	29-20	32-30	10-61	32-30	35-00	6-35	10-42	38-64
2.	2nd class Mason & brick layers & painter.	20-00	22-00	10-00	22-00	24-30	10-45	24-30	26-50	9-05	9-83	29-10
3.	Man mazdoor	14-00	16-10	15-00	16-10	16-50	14-90	18-50	20-00	6-10	12-66	22-53
4.	Woman mazdoor	14-00	16-10	15-00	16-10	16-50	26-80	18-50	20-00	6-10	12-66	22-53
5.	Stone packer	17-00	19-50	5.88	19-50	19-50	-	19-50	21-00	7-69	4-52	21-95
6.	Mixing Mortar	4-00	4-40	10-00	4-40	5-00	13-63	5-00	5-30	6-00	9-87	5.82
7.	Machine Mixing	7-00	7-70	10-00	7-70	6-50	10-38	6-50	9-00	5-88	6-73	9.78
8.	Vibrating charges	7.50	7-50	-	7-50	6-25	10-00	6-25	8.80	6-66	5-55	9-28
9.	Earth work loamy clay soils 20 B	49-50	49-50	-	49-50	54-45	10-00	54-45	94-90	37-55	15-85	86-77
10.	M. Graveling soils (12B) 20 B	52-80	52-80	-	52-80	56-10	10-03	56-10	78-00	34-25	14-76	89-51
11.	Mixture of gravel, SDR (13B)	55-50	55-50	-	55-50	61-05	10-00	61-05	81-00	32-67	14-22	92-51
12.	SDR (14)	66-50	66-50	-	66-50	73-15	10-00	73-15	90-00	23-04	11-01	99-90
13.	HDR (16)	104-00	104-00	A12 -	104-00	114-40	10-00	114-40	125-00	9-26	6-42	133-02

	2	3	4	5	6	7	8	9	10	11	12	13
1. Hard rock blasting 18 (A) (11) upto 3 Qm.		22-50	24-00	6-66	24-00	24-80	3-33	24-00	26-50	6-85	5-61	27-98
2. -do- Above 3 Qm (19 A(11))		54-00	59-00	10-00	59-40	59-40	-	59-40	63-50	6-90	5-63	67-07
<u>P.H. Items</u>												
<u>Centring charges for OHS as</u>												
) Column footings		66-00	85-80	6-60	85-80	85-80	-	85-80	85-80	-	2-20	87-68
) Columns beams and braces		40-00	52-00	30-00	52-00	52-00	-	52-00	52-00	-	10-00	57-20
) Bottom slab side wall curved		120-00	156-00	30-00	156-00	156-00	-	156-00	156-00	-	10-00	171-60
) Side wall straight		90-00	114-00	27-11	114-40	114-40	-	114-40	114-40	-	9-03	124-73
) dome		80-00	89-00	11-25	89-00	89-00	-	89-00	89-00	-	3-75	92-33
) Roof slab top		95-00	123-50	30-00	123-50	123-50	-	123-50	123-50	-	10-00	135-00
) Circular braces beams and column		61-00	73-90	21-14	79-30	79-30	-	79-30	79-30	-	7-05	84-89
) Plinth beam		46-00	62-40	30-00	62-40	62-40	-	62-40	62-40	-	10-00	68-64
		31-50	34-70	10-15	34-70	38-20	10-08	38-20	41-00	7-33	9-18	44-76
<u>Left Charges</u>												
Over initial lift 5 m for convey 7 m		10-40	13-50	29-80	13-50	13-50	-	13-50	13-50	-	9-93	14-84
Relift over initial lift 4 m on part every 2 mts.		3-15	4-10	30-15	4-10	4-10	-	4-10	4-10	-	10-05	4-51

	2	3	4	5	6	7	8	9	10	11	12	13
Snabed stone Ordinary polished snabed stone.												
Earth as per 88m 20 A		53-90	53-90	-	53-90	53-90	10-01	53-90	82-50	55-06	21-02	99-84
Hard gravelling soils 20A		57-75	57-75	-	57-75	63-50	9-95	63-50	82-70	35-38	14-44	96-95
0.50 Km lead for Earth work		12-00	12-00	-	12-00	13-10	9-16	13-10	15-00	14-50	7-88	.16-18
Consolidation with 2 tonne roller with watering and taping in layers		6-50	9-40	10-58	9-40	10-35	10-10	10-35	11-00	6-31	9-00	12-00
Snabed stone 10/Sq. mtr.		300-00	325-00	6-33	325-00	375-00	15-38	375-00	400-00	6-66	10-12	440-00
							<u>Lead</u>					
Boiling of water		20-00	20-00	-	20-00	20-00	-	20-00	20-00	-	-	20-00/Quin
Spreading of gravel 2 to 3T roller 150 mm tank bund light jungle clearance.		7-00	7-00	10-00	7-70	6-50	10-58	16-58	9-10	2-05	9-21	9-93
Clearing of light jungle		1-25	1-40	11-00	1-40	1-60	14-28	1-60	1-70	6-25	10-84	1-88
Clearing heavy Jungle		1-60	1-80	12-50	1-80	2-00	11-11	2-00	2-10	5-00	9-53	2-30
Scrub jungle		0-55	0-70	7-69	0-70	0-80	14-28	0-80	0-90	12-50	11-49	1-00
L. Work leads upto 3 leads		7-50	6-40	12-00	6-40	9-30	10-70	9-30	10-20	9-67	10-77	11-30
After 3 leads upto 6 leads		12-00	13-00	10-00	13-20	14-70	11-30	14-70	16-20	10-20	10-52	17-90
R. C. C. Pipes laying & Jointing.		1-73	2-05	16-49	2-05	2-05		2-05	2-05	-	6-16	2-17

PROJECTION OF S.S.R. FOR THE YEAR 1991-92

Sl. No.	Name of the item	Rates as per S.S.R.			% increase per year	Rate arrived for the year 91-92	Remarks
		84-85 85-86	86-87 88-89	% increase by 2 years			
1	2	3	4	5	6	7	8
	L/L of 150 mm	2.05	2.70	31.70%	15%	3.10	
	Jointing of 150 mm	5.62/2x = 1.40	7.30/2 = 1.825	30.35%	5%	7.66/4 = 1.91	
	L/L of 200mm	2.47	3.25	31.57%	15%	3.73	
	Jointing of 200 mm	5.62/4x = 1.40	7.30/4x = 1.825	30.35%	5%	7.66/4 = 1.91	
	L/L of 250 mm	2.84	3.75	32.04%	15%	4.31	
	Jointing of 250 mm	7.35/4x = 1.83	9.20/4x = 2.30	25.68%	5%	9.66/4 = 2.41	
	L/L of 300 mm	3.41	4.50	31.96%	15%	5.17	
	Jointing of 300 mm	7.35/4x = 1.83	9.20/4x = 2.30	25.68%	5%	9.66/4 = 2.41	
	L/L of 380 mm	5.86	7.70	31.39%	15%	8.85	
	Jointing of 350 mm	8.40/2 = 2.10	11.00/4 = 2.75	30.80%	5%	11.55/4 = 2.88	
	L/L of 400 mm	6.49	8.70	32.01	15%	10.00	
	Jointing of 400 mm	8.40/4 = 2.10	11.00/4 = 2.75	30.80%	5%	11.55/4 = 2.88	
	L/L of 450 mm	7.30	9.65	32.19%	15%	11.09	
	Jointing of 450 mm	9.87/4 = 2.46	12.85/4 = 3.21	30.48%	5%	13.49/4 = 3.37	
	L/L of 500 mm	8.00	10.00	31.15%	15%	12.19	
	Jointing of 500 mm	9.87/4 = 2.46	12.85/4 = 3.12	30.48%	5%	13.86/4 = 3.37	
	L/L of 600 mm	8.80	11.60	31.281%	15%	13.34	
	Jointing of 600 mm	11.29/4 = 2.82	14.70/4 = 3.67	30.14%	5%	15.43/4 = 3.85	

1	2	3	4	5	6	7	8
	AC Pipes L/L 80 mm	1.94	2.55	31.44%	5%		2.93
	Jointing of 80 mm	3.47/4 =0.86	4.55/4 =1.13	31.39%	5%		4.77/4=1.19
	AC Pipes L/L of 100mm	1.94	2.55	31.44%	15%		2.83
	Jointing of 100 mm	4.84/4 = 1.22	6.40/4 = 1.60	31.14%	5%		6.72/4=1.68

Cost of Materials including conveyance Blasting, Machine crushing
Seiognorage & Cess charges

Name of the Material	Lead in KM	Initial Cost	Conveyance charges	Blasting charges	Machine crushing charges	Seiognorage charges	25% cess charges	Total cost of the materials per KM.	Remark:
2	3	4	5	6	7	8	9	10	
Sand for Motor	15 KM	5.82	26.59	-	-	5.00	1.25	41.66	
Sand for filling	15 KM	3.19	29.59	-	-	5.00	1.25	39.03	
20 mm Machine crushed metal	30 KM	133.87	46.10	15.45	33.46	10.00	2.50	241.38	
40 mm H. G. Metal	10 KM	64.50	26.84	15.45	-	10.00	2.50	119.29	
Rough stone	10 KM	13.96	26.84	-	-	10.00	2.50	53.30	
Bricks	20 KM	528.80	58.83	-	-	15.00	3.75	660.38	
Gravel	4 KM	8.66	19.52	-	-	5.00	1.25	34.43	
Granate stone for Masonry CRS	10 KM	35.81	26.84	15.45	-	10.00	2.50	90.60	
Granate stone for Masonry BR		26.22	26.84	15.45	-	10.00	2.50	81.81	
Cement								1190/MT	
Steel								11000/MT	
Polished Surbed stone		1157.89	11.27	-	-	10.00	2.50	1181.66	
Shaded stone	10 KM	446.00							

PROJECTION OF 10 CLASS 10 RATES FOR THE YEAR 1991-92

Sl. Classification No. of pipes		During 1987-88	88-89	Percent- age increase	88-89	89-90	Percent- age increase	89-90	90-91	Percent- age increase	Average % increase	Rate of 1991-92	Notes
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	80 mm Class 10	28.02	28.02	-	28.02	32.05	13.95%	32.05	37-90	15.37%	9.75%	41.60	
2.	100 mm "	35.04	35.04	-	35.04	39.95	14.01%	39.95	46-08	15.30%	9.76%	50.56	
3.	125 mm "	45.07	45.07	-	45.07	51.39	14.02%	51.39	58-29	15.37%	9.76%	65.09	
4.	150 mm "	54.87	54.87	-	54.87	63.69	16.07%	63.69	73-48	15.37%	10.40%	81.18	
5.	200 mm "	81.77	81.77	-	81.77	96.12	19.99%	96.12	121-20	23.52%	14.50%	136.77	
6.	250 mm "	103.00	103.00	-	103.00	123.60	19.47%	123.60	152.07	23.52%	14.43%	171.54	
7.	300 mm "	133.00	133.00	-	133.00	159.60	19.77%	159.60	197.14	23.52%	14.43%	225.58	
8.	350 mm "	181.02	181.02	-	181.02	217.22	20.00%	217.22	268.22	23.52%	14.50%	307.22	
9.	400 mm "	218.28	218.28	-	218.28	261.94	20.00%	261.94	323.56	23.52%	14.50%	370.47	
10.	450 mm "	267.91	267.91	-	267.91	321.49	20.00%	321.49	397.12	23.52%	14.50%	454.70	
11.	500 mm "	337.64	337.64	-	337.64	405.17	20.00%	405.17	500.50	23.52%	14.50%	571.07	
12.	600 mm "	476.61	476.61	-	476.61	572.17	20.00%	572.17	706.79	23.52%	14.52%	809.41	
13.	700 mm "					899.11		899.11	1110.65	24.91%	15.00%	1277.24	
NOTE:													
	Sales tax	5.80	5.80%	-	5.80%	4.16		4.16%	13.05%			13.06%	
									(on excise duty)				
	Excise duty	25.00	25.00%	-	25.00%	26.15%	5%	26.25%	26.25%			26.25%	

PROJECTION OF AC CLASS 15 RATES FOR THE YEAR 1991-92

Sl. Classification No. of plant	AC RATES											
	BASELINE 1987-88	88-89	POTENTIAL CLASS INCREASE	88-89	89-90	POTENTIAL INCREASE	89-90	90-91	POTENTIAL CLASS INCREASE	AVERAGE % INCREASE	BASE R. 1991-92	
1	2	3	4	5	6	7	8	9	10	11	12	13
1. 80 mm Class 15	29.15	29.15	-	29.15	33.23	13.99%	33.23	36.30	15.37%	9.75%	42.00	
2. 100 mm fl	37.21	37.21	-	37.21	42.42	14.00%	42.42	48.94	15.37%	9.79%	50.73	
3. 125 mm φ	45.74	49.74	-	49.74	56.70	13.99%	56.70	65.42	15.37%	9.75%	71.81	
4. 150 mm φ	66.55	66.55	-	66.55	75.86	13.98%	75.86	87.53	15.35%	9.75%	96.09	
5. 200 mm φ	92.30	92.30	-	92.30	117.96	20.00%	117.96	145.70	23.52%	14.50%	166.62	
6. 250 mm φ	125.26	125.26	-	125.26	150.31	19.99%	150.31	185.67	23.52%	14.50%	212.59	
7. 300 mm φ	171.26	171.26	-	171.26	205.54	20.00%	205.54	253.90	23.52%	14.50%	290.71	
8. 350 mm φ	235.44	235.44	-	235.44	282.53	20.00%	282.53	349.00	23.52%	14.50%	399.60	
9. 400 mm φ	305.89	305.89	-	305.89	367.07	20.00%	367.07	453.43	23.52%	14.50%	519.17	
10. 450 mm φ	360.02	360.02	-	360.02	432.02	19.99%	432.02	533.66	23.52%	14.50%	611.04	
11. 500 mm φ	447.73	447.73	-	447.73	537.28	20.00%	537.28	663.69	23.52%	14.50%	759.92	
12. 600 mm φ	582.35	582.35	-	582.35	790.91	35.61	790.91	977.40	23.52	19.77	1170.15	
13. 700 mm φ					961.40		961.40	1187.00				
<u>NOTE:</u>												
Sales Tax	5.80 %	5.80%	-	5.80%	4.16%		4.16%	13.06%			13.06%	
Central Excise duty	25.00%	25.00%	-	25.00%	26.25%	5%	26.25%	26.25%			26.25%	

PROJECTION OF AS CLASS 20 RATES FOR THE YEAR 1991-92

Classification of pipes		A. S. Index											Rate
		During 1987-88	88-89	Percentage Increase	88-89	89-90	Percentage Increase	89-90	90-91	Percentage Increase	Average % Increase	Rate of 1991-92	
1	2	3	4	5	6	7	8	9	10	11	12	13	
1.	80 mm φ	31.26	31.26	-	31.26	35.66	14%	35.66	41.14	15.36%	9.76%	45.16	
2.	100 mm φ	47.09	47.09	-	47.09	53.60	14%	53.66	61.93	15.36%	9.78%	67.98	
3.	125 mm φ	56.35	56.35	-	56.35	66.52	14%	66.52	76.75	15.37%	9.79%	84.26	
4.	150 mm φ	62.32	62.32	-	62.32	91.84	14%	91.84	100.27	15.37%	9.79%	110.86	
5.	200 mm φ					149.63		149.63	184.83	23.52%	10.80%	219.02	
6.	250 mm φ	145.40	145.40	-	145.40	193.19	32.86%	193.19	236.63	23.52%	16.79%	283.46	
7.	300 mm φ	199.35	199.35	-	199.35	265.49	33.17%	265.49	327.95	23.52%	18.89%	389.89	
8.	350 mm φ	265.95	265.95	-	265.95	367.14	38.04%	367.14	453.51	23.52%	20.52%	546.57	
9.	400 mm φ	361.40	361.40	-	361.40	478.35	32.36%	478.35	590.90	23.52%	18.62%	700.92	
10.	450 mm φ	424.15	424.15	-	424.15	572.05	34.86%	572.05	706.64	23.52%	19.46%	844.15	
11.	500 mm φ	530.00	530.00	-	530.00	702.21	32.49%	702.21	867.43	23.52%	18.67%	1025.37	
12.	600 mm φ					1030.88		1030.88	1273.43	23.52%	18.67%	1511.17	
13.	700 mm φ					1304.59		1304.59	1611.54	23.52%	18.67%	1912.41	

NOTE:

Sales Tax	5.80%	5.70%	-	5.80%	4.16%	-	4.16%	13.06%	-	-	13.05%
Excise duty	15.00%	15.00%	-	25.00%	26.25%	5%	26.25%	26.25%	-	-	26.25%

C.I.P. JOINTS AND COUPLINGS FOR A.C. PIPES

Sl. No.	Classification of pipes	C.I.P. Prices										Total of 1957-52
		1957-58	58-59	Percentage Price Increase	59-60	60-61	Percentage Price Increase	61-62	62-63	Percentage Price Increase	Average % Increase	
1	2	3	4	5	6	7	8	9	10	11	12	13
<u>CIP JOINTS</u>												
1.	50 mm	34.20	37.67	9.32%	37.67	52.80	38.04%	52.00	52.00	-	15.75%	60.20
2.	100 mm	40.26	44.37	10.15%	44.37	61.00	37.45%	61.00	61.00	-	15.57%	70.60
3.	125 mm	51.28	56.50	10.57%	56.50	83.00	40.90%	83.00	83.00	-	19.02%	93.78
4.	150 mm	61.27	67.50	10.17%	67.50	94.00	38.25%	94.00	94.00	-	15.47%	109.40
<u>EXCOUPLINGS</u>												
5.	200 mm	50.92	50.92	-	50.92	61.10	19.99%	73.61	20.47	20.47%	-	63.53
6.	225 mm	-	-	-	-	-	-	-	-	-	-	-
7.	250 mm	67.10	67.10	-	67.10	80.52	20%	80.52	94.08	16.84%	12.26%	105.63
8.	300 mm	81.63	81.63	-	81.63	97.96	20%	97.96	112.34	14.67%	11.55%	129.75
9.	350 mm	100.60	100.60	-	100.60	120.72	20%	120.72	156.66	29.70%	16.89%	152.67
10.	400 mm	132.57	132.57	-	132.57	159.08	20%	159.08	203.72	28.06%	16.02%	236.35
11.	450 mm	155.23	155.23	-	155.23	186.28	20%	186.28	240.55	25.13%	16.37%	279.92
12.	500 mm	183.00	183.00	-	183.00	219.60	20%	219.60	294.66	34.46%	16.16%	348.17
13.	600 mm	236.46	236.46	-	236.46	283.75	20%	283.75	382.69	30.86%	16.26%	452.64
14.	700 mm	-	-	-	-	515.54	20%	515.54	630.74	22.34%	14.11%	714.73
15.	800 mm	-	-	-	-	-	-	-	-	-	-	-
16.	900 mm	-	-	-	-	-	-	-	-	-	-	-
17.	1000 mm	-	-	-	-	-	-	-	-	-	-	-
18.	1200 mm	-	-	-	-	-	-	-	-	-	-	-
<u>Notes</u>												
	Sales Tax	5.80%	5.80%		5.80%	4.16%	-	4.16%	-	-	-	4.16%
	Excise duty	25.00%	25%	A20	25.00%	26.25%	25%	26.25%	-	-	-	26.25%

S.I.D. JOINTS AND COUPLINGS FOR AC PIPES

CLASS 15

	2	3	4	5	6	7	8	9	10	11	12	13
CID JOINTS (for all Classes)												
1. 80 mm	34.20	37.67	9.32%	37.67	52.00	38.04%	52.00	52.00	52.00	-	15.78	60.20
1. 100 mm	40.28	44.37	10.15%	44.37	61.00	37.48%	61.00	61.00	61.00	-	15.87%	70.60
1. 125 mm	51.28	56.50	10.17%	56.50	83.00	46.90%	83.00	83.00	83.00	-	19.02%	98.76
1. 150 mm	61.27	67.50	10.17%	67.50	94.00	39.25%	94.00	94.00	94.00	-	16.47%	109.48
1. 200 mm	50.92	50.92	-	50.92	61.10	19.99%	61.10	85.16	85.16	39.37%	19.78%	102.00
1. 250 mm	67.48	67.48	-	67.48	80.98	20.00%	80.98	103.56	103.56	27.00%	15.96%	120.00
1. 300 mm	81.86	81.86	-	81.86	98.23	19.99%	98.22	120.46	120.46	20.75%	16.26%	146.99
1. 350 mm	101.78	101.78	-	101.78	122.14	20.00%	122.14	175.91	175.91	44.02%	21.34%	213.44
1. 400 mm	132.77	132.77	-	132.77	159.32	19.99%	159.32	258.94	258.94	62.52%	27.50%	330.14
1. 450 mm	157.50	157.50	-	157.50	189.00	20.00%	189.00	305.71	305.71	61.75%	27.25%	389.00
1. 500 mm	184.91	184.91	-	184.91	221.89	19.99%	221.89	368.28	368.28	65.97%	28.65%	475.80
1. 600 mm	244.35	244.35	-	244.35	293.22	20.00%	293.22	439.50	439.50	49.00%	23.29%	541.85
1. 700 mm					567.55							
1. 800 mm												
1. 900 mm												
1. 1000 mm												
1. 1200 mm												

NOTE:

Sales Tax	5.80%	5.80%		5.80%	4.16%	-	4.16%	-	-	-	4.16%	
Excise duty	25.00%	25.00%		25.00%	25.25%	5%	26.28%	-	-	-	26.25%	

C.I.D. JOINTS AND COUPLINGS FOR AC PIPES

CLASS 20

1	2	3	4	5	6	7	8	9	10	11	12	13
<u>C.I.D. JOINTS</u>												
1. 80 mm		34.20	37.67	9.32%	37.67	52.00	38.04%	52.00	52.00		15.76%	60.20
2. 100 mm		40.28	44.37	10.15%	44.37	61.00	37.48%	61.00	61.00		15.57%	70.65
3. 125 mm		51.20	56.53	10.17%	56.50	83.00	46.90%	83.00	83.00		19.02%	95.76
4. 150 mm		61.27	67.50	10.17%	67.50	94.00	39.25%	94.00	94.00		16.47%	109.48
<u>5x COUPLINGS</u>												
5. 200 mm						65.25		65.25	89.48	37.13%	12.00%	100.21
6. 225 mm												
7. 250 mm		81.76	82.76	-	82.76	101.29	22.39%	101.29	122.69	21.11%	14.50%	140.48
8. 300 mm		95.47	95.47	-	95.47	116.86	22.40%	116.86	154.20	31.95%	18.11%	182.12
9. 350 mm		114.68	114.68	-	114.68	140.36	22.39%	140.36	217.16	54.71%	23.70%	272.97
10. 400 mm		166.61	166.61	-	166.61	203.93	22.39%	203.93	324.58	59.16%	27.15%	412.80
11. 450 mm		198.56	198.56	-	198.56	243.04	22.40%	243.04	386.53	59.05%	27.15%	491.53
12. 500 mm		238.90	238.90	-	238.90	292.42	22.40%	292.42	472.31	61.51%	27.97%	604.41
13. 600 mm						337.66		337.66	555.30	64.45%	28.00%	710.78
14. 700 mm						614.83		614.83	859.87	39.05%	25.00%	1074.83
15. 800 mm												
16. 900 mm												
17. 1000 mm												
18. 1200 mm												

NOTE:

Sales Tax	5.80%	5.80%	5.80%	4.16%	4.16%	4.16%
Excise duty	25.00%	25%	25%	26.25%	5%	26.25%

PROJECTION-COST OF RCC P2 & P3 PIPES

COST OF RCC PIPES

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
		87-88	88-89		88-89	89-90		89-90	90-91				
1.	80 mm	47.09 P3		-	47.09	54.15	15%	51.15	54.15	-	15%	62.27	
2.		43.74 P2	43.74	-	43.74	50.30	15%	51.15	50.30	-	15%	57.84	
3.	100 mm	57.40	57.40	-	57.40	66.01	15%	51.15	66.01	-	15%	75.91	
4.		51.68	51.68	-	51.68	59.43	15%	51.15	59.43	-	15%	68.34	
5.	150 mm	86.63	86.63	-	86.63	99.62	15%	51.15	99.62	-	15%	114.56	
6.		73.18	73.18	-	73.18	84.16	15%	51.15	84.16	-	15%	96.78	
7.	200 mm	118.00	118.00	-	118.00	135.70	15%	51.15	135.70	-	15%	156.05	
8.		93.00	93.00	-	93.00	106.95	15%	51.15	109.95	-	15%	126.44	
9.	225 mm	130.57	130.57	-	130.57	150.16	15%	51.15	150.16	-	15%	172.68	
10.		102.00	102.00	-	102.00	117.30	15%	51.15	117.30	-	15%	134.89	
11.	250 mm	141.00	141.00	-	141.00	162.15	15%	51.15	162.15	-	15%	186.47	
12.		108.28	108.28	-	108.28	124.52	15%	51.15	124.52	-	15%	143.19	
13.	300 mm	198.50	198.13	-	198.13	227.85	15%	51.15	227.85	-	15%	262.02	
14.		158.50	158.50	-	158.50	182.28	15%	51.15	182.28	-	15%	209.62	

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
15.	350 mm					305.33	15%	54.15	305.33	-	15%	351.12	
16.						237.82	15%	54.15	237.82	-	15%	273.49	
17.	400 mm					386.46	15%	54.15	386.46	-	15%	444.42	
18.						295.78	15%	54.15	295.78	-	15%	340.14	
19.	500 mm					548.72	15%	54.15	548.72	-	15%	631.02	
20.						417.57	15%	54.15	417.57	-	15%	480.20	
21.	600 mm					710.99	15%	54.15	710.99	-	15%	817.63	
22.						585.18	15%	54.15	585.18	-	15%	672.95	
23.	700 mm					873.25	15%	54.15	873.25	-	15%	1004.24	P3
24.	800 mm					1035.52	15%	54.15	1035.52	-	15%	1190.61	
25.						920.40	15%	54.15	920.40	-	15%	1058.46	
26.	900 mm					-			-	-		-	P3
27.						1088.02	15%	54.15	1088.02	-	15%	1251.22	P2
28.	1000 mm					-			-			-	P3
29.	1000 mm					1255.63	15%	54.15	1255.63	-	15%	1443.97	P2
30.	1200 mm					-			-			-	
31.	450 mm					467.59	15%	54.15	467.59	-	15%	537.72	P2
32.						-			-			-	
33.						316.21	15%	54.15	346.21	-	15%	398.14	P3

R.C.C. COLLARS P2

1	2	3	4	5	6	7	8	9	10	11	12	13
1. 80 mm		12.26	12.26	-	12.26	14.10	15.00%	14.10	14.10	-	15%	16.21
2. 100 mm		15.72	15.72	-	15.72	18.08	15.00%	18.08	18.08	-	15%	20.79
3. 150 mm		18.86	18.86	-	18.86	21.69	25.00%	21.69	21.69	-	15%	27.94
4. 200 mm		22.94	22.94	-	22.94	26.98	14.99%	26.38	26.38	-	15%	30.33
5. 225 mm		29.08	29.08	-	29.08	33.44	14.99%	33.44	33.44	-	15%	38.45
6. 250 mm		33.33	33.33	-	33.33	36.33	15.00%	36.33	36.33	-	15%	44.07
7. 300 mm		45.00	45.00	-	45.00	51.75	25.00%	51.75	51.75	-	15%	59.51
8. 350 mm						69.40		69.40	69.40	-	15%	79.81
9. 400 mm						86.25		86.25	86.25	-	15%	99.18
10. 450 mm						95.62		95.62	95.62	-	15%	109.96
11. 500 mm						109.54		109.54	109.54	-	15%	125.97
12. 600 mm						124.55		124.55	124.55	-	15%	143.23
13. 700 mm		P2				152.38		152.38	152.38		15%	175.23
14. 800 mm		P3				357.36		357.36	357.36		15%	393.10
14. 800 mm						180.21		180.21	180.21	-	15%	207.24
15. 900 mm						206.04		206.04	206.04	-	15%	239.24
16. 1000 mm						235.67		235.67	235.67	-	15%	271.25

Sales Tax

11.67%

A25

R.C.C. COLLARS P3

2	3	4	5	6	7	8	9	10	11	12	13
80 mm	14.15	14.15	-	14.15	16.27	16.98%	16.77	16.27	-	15%	16.71
100 mm	18.24	18.24	-	18.24	20.98	15.02%	20.98	20.98	-	15%	24.12
150 mm	24.54	24.54	-	24.54	28.22	14.99%	28.22	28.22	-	15%	32.45
200 mm	35.88	35.88	-	35.88	42.26	14.99%	41.26	41.26	-	15%	47.44
225 mm	40.36	40.36	-	40.36	46.86	14.99%	46.41	46.41	-	15%	53.37
250 mm	46.35	46.35	-	46.35	53.30	14.99%	53.30	53.30	-	15%	61.29
300 mm	55.45	55.45	-	55.45	63.77	17.11%	63.77	63.77	-	15%	73.33
350 mm					105.00		105.00			15%	120.75
400 mm					141.05		141.05			15%	162.20
450 mm					177.10		177.10			15%	203.66
500 mm					213.15						
600 mm					285.26		285.26			15%	328.04
700 mm					358.36		358.36			15%	410.96
800 mm					429.47		429.47			15%	493.89
900 mm							500.00				575.00
1000 mm							650.00				747.50

CONVEYANCE FOR R.C.C. PIPES PER FWT/PER Km.

1	2	3	4	5	6	7	8	9	10	11	12	13
1.	80 mm φ P2	0.035	0.035	-	0.035	0.039	11.42%	0.039	0.038	-	-	0.042
	P3	0.035	0.035	-	0.035	0.039	11.42%	0.039	0.039	-	-	0.042
2.	100 mm φ P2	0.046	0.046	-	0.046	0.05	8.69%	0.05	0.05	-	-	0.055
	P3	0.046	0.046	-	0.046	0.05	8.69%	0.05	0.05	-	-	0.055
3.	150mm φ P2	0.058	0.058	-	0.058	0.064	10.34%	0.064	0.064	-	-	0.070
	P3	0.058	0.058	-	0.058	0.064	10.34%	0.064	0.064	-	-	0.070
4.	200 mm φ P2	0.092	0.092	-	0.092	0.101	9.78%	0.101	0.101	-	-	0.111
	P3	0.092	0.092	-	0.092	0.101	9.78%	0.101	0.101	-	-	0.111
5.	225 mm φ P2	0.109	0.109	-	0.109	0.12	10.09%	0.12	0.120	-	-	0.132
	P3	0.114	0.114	-	0.114	0.125	9.64%	0.125	0.125	-	-	0.137
6.	250 mm φ P2	0.127	0.127	-	0.127	0.14	10.23	0.14	0.140	-	-	0.154
	P3	0.138	0.138	-	0.138	0.152	10.14%	0.152	0.152	-	-	0.167
7.	300 mm φ P2	0.184	0.184	-	0.184	0.202	9.78%	0.202	0.202	-	-	0.222
	P3	0.219	0.219	-	0.219	0.241	10.04%	0.241	0.241	-	-	0.265
8.	350 mm φ P2					0.253		0.253	0.253		10%	0.278
	P3					0.292		0.292	0.292			0.321
9.	400 mm φ P2					0.317		0.317	0.317			0.348
	P3	0.345				0.341		0.341	0.341			0.375
10.	450 mm φ P2					0.341		0.341	0.341		10%	0.375
	P3	0.38									10%	0.418
11.	500 mm φ P2					0.418		0.418	0.418			0.459
	P3	0.48									10%	0.418
12.	600 mm φ P2					0.695		0.695	0.695		10%	0.764
	P3	0.632										0.63
13.	700 mm φ P2/P3					0.759						0.825
14.	800 mm φ P2											
	P3	0.75										

C.I. PIPES

	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>S/S Pipe: 'LA' Class</u>													
1. 80 (3.66)		106.09	119.64	12.77%	119.64	119.64	-	119.64	138.94	16.13%	9.88%	152.66	
2. 80 (4.00)					116.75	116.75	-	116.75	-	-			
3. 100 (4.00)		129.46	146.07	12.83%	146.07	146.07	-	146.07	169.76	16.21%	9.68%	186.19	
4. 125 (4.00)		150.55											
5. 150 (4.00)		187.64	213.70	13.85%	213.70	213.70	-	213.70	251.11	17.5%	10.46%	277.37	
6. 200 (4.00)		273.06	311.14	13.94%	311.14	311.14	-	311.14	365.81	17.41%	10.45%	404.53	
7. 250 (4.00)		386.92	419.23	13.94%	419.23	419.23	-	419.23	492.30	17.41%	10.45%	543.74	
8. 300 (4.00)		474.45	540.61	13.94%	540.61	540.61	-	540.61	635.60	17.57%	10.50%	702.23	
9. 350 (4.00)		598.32	681.70	13.94%	681.70	681.70	-	681.70	891.42	30.76%	14.90%	1024.24	
10. 400 (4.00)		726.10							975.25			1072.77	
11. 450 (4.00)		876.74							1176.83			1294.50	
12. 500 (4.00)		1031.50							1466.47			1613.10	
13. 600 (4.00)		1416.81							1883.02			2071.30	
14. 700 (4.00)		1830.93							2436.47				
15. 750 (4.00)		2050.60							2726.75				
16. 800 (4.00)		2295.37							3054.58			3360.05	
17. 900 (4.00)		2796.08							3726.02			4098.60	
18. 1000 (4.00)		3359.04							4476.20			4923.80	

10% Excess over 40-71 Rate

Sales Tax 4%

Transportation 5%

C.I. L/A Class pipes (Length = 3.66 mts)

C.I. L/A (3.66 mts.)	84-85 85-86	86-87 87-88	88-89 89-90	90-91 %	Cost	Remarks
1	2	3	4	5	6	7
<u>Lowering & Laying</u>						
150 mm Ø	2.45	2-60 (6.12)%	3.40 (30.77)%	12.30	3.82	
350 mm Ø	5.60	6.10 (8.93)%	7.80 (27.87)	12.27	8.76	
400 mm Ø	6.85	7.45 (8.76)%	9.50 (27.52)	12.09	10.65	
450 mm Ø	8.25	8.95 (8.48)%	11.45 (27.86)	12.14	12-84	
600 mm Ø	12.90	14.00 (8.53)%	17.90 (27.86)	12.13	20.07	
800 mm Ø	22.00	23-10 (5.00)%	30.40 (31.69)	12.20	34.11	
1000 mm Ø	32.05	33.65 (4.99)%	44.40 (31.95)	12.31	49.87	
300 mm Ø	4.45	4.80 (7.87)%	6-20 (29.17)	12.35	6.97	
<u>Jointing</u>						
150 mm Ø	3.75	3.93 (3.08)%	5.19 (32.06)	12.30	5.83	
300 mm Ø	7.28	7.65 (5.08)%	10.10 (32.03)	12.37	11.35	
350 mm Ø	7.68	8.06 (4.95)%	10.64 (32.01)	12.32	11.95	
400 mm Ø	9.93	10.42 (4.93)%	13.76 (32.05)	12.33	15.46	
450 mm Ø	11.09	11.65 (5.05)%	15.38 (32.02)	12.36	17.28	
600 mm Ø	15.83	16.83 (5.05)%	21.94 (31.93)	12.31	24.65	
600 mm Ø	20.63	21.67 (5.04)%	26.59 (31.93)	12.32	32.11	
1000 mm Ø	27.19	28.55 (5.00)%	37.68 (31.98)	12.33	42.33	

P.S.C PIPES 18 Kgs/Cum

Sl. No.	Diameter	Rates of 1990-91	Rates of 1991-92
1	2	3	4
1.	300 mm	380.00	437.00
2.	350 mm	475.00	546.00
3.	400 mm	530.00	609.00
4.	450 mm	570.00	655.50
5.	500 mm	621.00	714.15
6.	600 mm	745.00	856.75
7.	700 mm	885.00	1017.75
8.	800 mm	1110.00	1276.50
9.	900 mm	1290.00	1483.50
10.	1000 mm	1545.00	1776.75
11.	1200 mm	2130.00	2449.50

Note: 15 % Average annual increase is noticed in respect of R.C.C pipes over the past years. The same average increase is considered for P.S.C pipes also and Rates of 1991-92 rates worked out operating average annual increase on 1990-91 rates.

RATES OF AC.CL.10 PIPES

Dia	INITIAL COST			EXCISE DUTY		SALES TAX			TRANSPORTATION			T O T A L			Cost of E/T and refilling W & T pipe- **	L/L & Joining of pipe- per RMT. L/L J	Total cost per RMT.	Cost of Specials @ 16% on cost.	Sundries	Total cost of pipe-line per RMT.		
	Pipes	CID	Couplings	Pipes	Couplings	Pipes	CID	Couplings	Pipes	S.T.	Couplings	Pipes	CID	Couplings							Total	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
80	41.60	15.05	-	10.92	-	5.43	0.62	-	1.66	0.21	-	59.82	15.67	-	75.49	23.08	2.93	1.19	102.69	15.40	0.01	118.10
100	50.56	17.67	-	13.27	-	6.60	0.73	-	2.02	0.26	-	72.73	18.40	-	91.13	23.08	2.93	1.68	118.82	17.82	0.01	136.65
125	65.09	24.69	-	17.08	-	8.50	1.02	-	2.60	0.33	-	93.60	25.71	-	119.31	23.08	2.93	1.68	147.00	22.07	0.00	169.05
150	81.18	27.37	-	21.30	-	10.60	1.13	-	3.24	0.42	-	116.74	28.50	-	145.25	25.00	3.10	1.91	175.35	26.30	0.00	201.65
200	138.77	-	20.88	36.42	3.43	18.12	-	2.72	2.77	-	0.41	196.08	-	27.44	223.52	25.00	3.73	1.91	254.16	38.12	0.02	292.30
250	174.54	-	26.40	45.81	4.28	22.79	-	3.44	3.49	-	0.52	246.63	-	34.64	281.27	25.00	4.31	2.41	312.99	46.95	0.01	359.95
300	225.58	-	32.43	59.21	5.30	29.46	-	4.23	4.51	-	0.64	318.76	-	42.60	361.36	29.91	5.17	2.41	398.85	59.83	0.02	458.70
350	307.22	-	45.66	80.64	7.87	40.12	-	5.96	6.14	-	0.91	434.12	-	60.40	494.52	29.91	8.85	2.88	536.16	80.42	0.02	616.60
400	370.47	-	59.08	97.24	10.42	48.38	-	7.71	7.40	-	1.18	523.49	-	78.39	601.88	33.55	10.00	2.88	648.31	97.25	0.04	745.60
450	454.70	-	69.98	119.35	12.46	59.38	-	9.13	9.09	-	1.39	642.52	-	92.96	735.48	33.55	11.09	3.37	783.49	117.52	0.04	901.05
500	573.07	-	87.04	150.43	15.33	74.84	-	11.36	11.46	-	1.74	809.80	-	115.47	925.27	37.61	12.19	3.37	975.44	146.32	0.04	1121.80
600	809.41	-	113.16	212.47	20.69	105.70	-	14.77	16.18	-	2.26	1143.76	-	150.88	1294.64	43.59	13.34	3.85	1355.42	203.31	0.02	1556.75

*Transportation upto 150 mm dia 4% on Pipes value + Sales Tax at 13.06%. About 200 mm dia 2% on pipes & Couplings value.

** E/T: Excavation & Trenches

** W/T: Watering & Tamping.

RATES OF AC. CL. 15 PIPES

Size	INITIAL COST			EXCISE DUTY		SALES TAX		TRANSPORTATION			T O T A L			Total	Cost of E/T and refilling W & T	L/L & Joining of pipeline per RMT. L/L J	Total cost per RMT.	Cost of Specials @ 16% on cost.	Sundries	Total cost of pipeline per RMT.		
	Pipes	CID	Cou- Joints	Pipes	Cou- lings	Pipes	CID	Cou- nts.	Pipes	S. T. % up- to 150 dia.	Cou- on pi- pes. (2.00 %).	Pipes	CID								Cou- per	
	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
80	42.08	15.05	-	11.05	-	5.50	0.63	-	1.68	0.22	-	60.53	15.68	-	76.21	23.08	2.93	1.19	103.41	15.51	0.08	119.00
00	53.73	17.67	-	14.10	-	7.02	0.74	-	2.15	0.28	-	77.28	18.41	-	95.60	23.08	2.93	1.68	123.29	18.49	0.02	141.80
25	71.81	24.70	-	18.85	-	9.38	1.03	-	2.87	0.38	-	103.29	25.73	-	129.02	23.08	2.93	1.68	156.71	23.50	0.04	180.25
50	96.09	27.37	-	25.22	-	12.55	1.14	-	3.84	0.50	-	136.20	28.51	-	166.71	25.00	3.10	1.91	196.72	29.51	0.02	226.25
100	166.82	-	25.50	43.79	4.19	21.79	-	3.33	3.33	-	0.52	235.73	-	33.54	269.27	25.00	3.73	1.91	299.91	44.99	-	344.90
150	212.59	-	30.02	55.80	4.91	27.76	-	3.92	4.25	-	0.60	300.40	-	39.45	339.85	25.00	4.31	2.41	371.57	55.74	0.04	427.35
200	290.71	-	36.75	76.31	6.22	37.97	-	4.80	5.81	-	0.74	410.80	-	48.51	459.31	29.91	5.17	2.41	496.80	74.52	0.03	571.35
250	399.60	-	53.36	104.90	9.13	52.19	-	6.97	7.99	-	1.07	564.68	-	70.53	635.21	29.91	8.85	2.88	676.85	101.53	0.02	778.40
300	519.17	-	82.53	136.28	14.05	67.80	-	10.75	10.38	-	1.65	733.63	-	108.98	842.61	33.55	10.00	2.88	889.04	133.36	-	1022.40
350	611.04	-	97.25	160.40	16.73	79.80	-	12.70	12.22	-	1.94	863.46	-	128.62	992.08	33.55	11.09	3.37	1040.09	156.01	-	1196.10
400	759.92	-	118.45	199.48	20.17	99.25	-	15.47	15.20	-	2.37	1073.85	-	156.46	1230.31	37.61	12.19	3.37	1283.48	192.52	-	1476.00
450	1170.15	-	135.46	307.16	24.42	152.82	-	17.69	23.40	-	2.71	1653.53	-	180.28	1833.81	43.59	13.34	3.85	1894.59	284.19	0.02	2178.80

RATES OF AC, CL, 20

Dia	INITIAL COST		EXCISE DUTY		SALES TAX		TRANSPORTATION			T O T A L			Cost of E/T and refilling W & T	L/L & Joining of pipe-line per RMT.	Total cost per RMT.	Cost of Specials @ 16% on cost.	Sundries	Total cost of pipe-line per RMT.				
	Pipes	CID — Coup- Joints lings.	Pipes	Coup- lings	Pipes	CID Coup- lings	Pipes	S. T. on	Cou- pli- ngs.	Pipes	CID Coup- per	Joi- nts Per							pli- ngs. Per	Total		
	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
80	45.16	15.05	-	11.85	-	5.00	0.63	-	1.81	0.24	-	64.96	15.68	-	80.64	23.08	2.93	1.19	107.84	16.17	0.04	124.05
100	67.98	17.67	-	17.84	-	8.88	0.74	-	2.72	0.36	-	97.78	18.41	-	116.19	23.08	2.93	1.68	143.88	21.58	0.04	165.50
125	84.26	24.69	-	22.11	-	11.00	1.02	-	3.37	0.44	-	121.18	25.71	-	146.89	23.08	2.93	1.68	174.56	26.18	0.04	200.80
150	118.86	27.37	-	31.20	-	15.52	1.14	-	4.75	0.62	-	170.95	28.51	-	199.46	25.00	3.10	1.91	229.43	34.41	0.01	263.85
200	219.02	-	25.05	57.49	4.47	26.60	-	3.27	4.38	-	0.50	305.49	-	33.29	342.78	25.00	2.73	1.91	373.42	56.00	0.03	429.45
250	283.46	-	35.12	74.41	6.16	37.10	-	4.59	5.67	-	0.70	400.64	-	46.57	447.21	25.00	3.73	1.91	477.84	71.67	0.04	549.55
300	389.89	-	45.53	102.35	8.04	50.92	-	5.94	7.80	-	0.91	550.96	-	60.42	611.38	29.91	4.31	2.41	648.01	97.20	0.04	745.25
350	546.87	-	68.24	143.47	11.83	71.38	-	8.91	10.93	-	1.36	772.35	-	90.34	862.69	29.91	5.17	2.41	900.18	135.02	-	1035.20
400	700.92	-	103.20	183.99	18.36	91.54	-	13.47	14.02	-	2.06	990.47	-	137.09	1127.56	33.55	8.85	2.88	1172.84	175.92	0.04	1348.80
450	844.15	-	122.88	221.59	22.04	110.25	-	16.04	16.88	-	2.46	1192.87	-	163.42	1356.29	33.55	10.00	2.88	1402.72	210.40	0.03	1613.15
500	1029.37	-	151.10	270.21	27.00	134.44	-	19.73	20.58	-	3.02	1454.60	-	200.85	1655.45	37.61	11.09	3.37	1707.52	256.12	0.01	1963.65
550	1511.17	-	177.69	396.68	32.02	197.36	-	23.20	30.22	-	3.55	2735.43	-	236.46	2971.89	43.59	12.19	3.37	2431.04	364.65	0.01	2795.70
700	1912.41	-	269.68	502.00	50.07	249.76	-	35.08	38.25	-	5.37	2702.42	-	359.20	3061.62	43.59	13.34	3.85	3122.40	468.36	0.04	3590.80

RATES OF CI. I/A CLASS PIPES

Sl. No.	Size of pipe in M.M	Cost of pipe per RMF	Cost of loading, unloading @ 20% including taxes	Total cost of the pipe	Earth work excavation	Cost of laying	Cost of lead and jointing @ 35/1 Kg	Rate of yarn jointing @ Rs. 20/1 Kg	Labour charges for jointing	Total cost of laying, jointing/R.M.	Total cost of pipe line/metre.	Specials Valves, chamber etc., 15% excess.	Sundries	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.	150 mmØ	277.37	55.47	332.84	23.08	3.82	39.02	1.31	5.83	49.98	405.90	60.89	0.01	466.80
2.	300 mmØ	702.23	140.45	842.68	29.91	6.97	82.62	3.17	11.35	104.11	976.70	146.51	0.04	1123.25
3.	350 mmØ	1024.24	204.85	1229.09	29.91	8.76	96.39	3.93	11.95	121.03	1380.03	207.00	0.02	1587.05
4.	400 mmØ	1072.77	214.55	1287.32	33.55	10.65	109.02	4.92	15.46	140.05	1460.92	219.14	0.04	1680.10
5.	450 mmØ	1294.50	215.90	1553.40	33.55	12.84	160.66	6.23	17.28	197.01	1783.96	267.50	-	2051.55
6.	600 mmØ	2071.30	414.26	2484.56	43.59	20.07	218.03	7.87	24.65	217.62	2798.77	419.82	0.01	3218.60
7.	800 mmØ	3360.05	672.01	4032.06	43.59	34.11	286.89	9.51	32.11	362.62	4438.27	665.74	0.04	5104.05
8.	1000 mmØ	4923.80	984.76	5908.56	43.59	49.87	470.49	13.44	42.33	576.13	6528.28	979.24	0.03	7507.53

A N N E X U R E - 5
PROVISION OF C.I. SPECIALS - MODEL ESTIMATE
RECAST ESTIMATE FOR RAW WATER PUMPING MAIN FROM JACKWELL TO HEAD WORKS (FILTER BEDS)
C.P.W.S. SCHEME AT IBRAHIMPUR

ESTIMATED COST: Rs. 4.80 LAKHS

PROVISION IS MADE IN THE RECAST ESTIMATE AS FOLLOWS:

PIPES AND OTHER MATERIALS			SPECIALS, VALVES & CHAMBERS		
S.NO.	Details	Amount	S.NO.	Details	Amount Provided.
1.	700 Hmt. Ac.C.I.L pipes 400 mm dia	Rs. 2,05,310	1.	1 No. 400 mm dia Sluice valves	Rs. 26,000
2.	150 Nos. Ac.Couplings 400 mm dia	Rs. 28,320	2.	1 No. 400 mm dia Reflex valves	Rs. 6,200
3.	97.50 Hmt. C.I.L/A Class pipes 400 mm dia.	Rs. 1,09,600	3.	1 No. 80 mm dia Air valves	Rs. 720
4.	20 Nos. C.I.D.Joints, 400 mm dia	Rs. 5,57	4.	1 No. 200 mm dia Scour valve	Rs. 4,620
5.	Cost of jointing with kumber sheet for C.I.L/A pipes.	Rs. 915	5.	4 Nos. 400 mm dia C.I.Tail pieces.	Rs. 1,600
6.	Labour charges for Bloolowering, jointing of CI L/A pipes with Nut Bolts.	Rs. 1,983	6.	1 No. CI Air T 400x400x80	Rs. 800
7.	Earth excavation of trench work for AC pipes including laying & jointing.	Rs. 25,620	7.	1 No. CI Scour T 400x400x200	Rs. 900
8.	Earth work excavation for CI D/F pipes and jointing .	Rs. 4,202	8.	3 Nos. CI D/F, 0.60 mtrs. length. 200 mm dia.	Rs. 1,680
9.	Bed Concrete for CI L/A S/S pipes	Rs. 1,500	9.	1 No. 200 mm dia CI duckfoot bend.	Rs. 770
10.	400 mm dia CI D/F pipes.		10.	1 No. 200 mm dia CI Semi Circular Bend .	Rs. 600
	a) 2 mtrs. long 7 Nos		11.	2 Nos. 400 mm dia CI 90° bends.	Rs. 1,500
	b) 0.90mtrs. long. 1 No	Rs. 29,186	12.	1 No. 400 mm dia CI Duck foot bend.	Rs. 850
	c) 0.60 mtrs. long. 1 No		13.	3 Nos. Construction of Chambers for valves,	Rs. 9,000
		Rs. 4,12,215	14.	1 No. -do- Air valve.	Rs. 2,200
-	Percentage of provision for specials, chambers, earth work etc., complete.		15.	Earth work for D/F CI Pipes.0.60 m .	Rs. 150
		$\frac{100}{412215} \times 62833 = 15.26\%$	16.	Labour charges for Valves & Specials.	Rs. 5,343
					Rs. 62,933

ANNEXURE-6

UNIT RATES FOR VARIOUS TECHNICAL COMPONENTS

	<u>OHSRs</u>	<u>Rate per Litre</u>	
1)	40,000 litres OHSR	Rs. 4.50	
2)	60,000 Litres OHSR	Rs. 3.50	
3)	80,000m& 1.00 lakh litres OHSR	Rs. 4.00	(due to extra column)
4)	1.50 lakh litres OHSR	Rs. 3.00	
5).	Above 1.50 lakh litres OHSR	Rs. 3.00	

	<u>GLSRs</u>	
1)	10,000 litres GLSR	Rs. 3.50
2)	20,000 litres GLSR	Rs. 2.75
3)	40,000 litres GLSR	Rs. 1.70
4)	60,000 litres GLSR	Rs. 1.20
5)	80,000 litres GLSR to 2.00 lakh litres GLSR	Rs. 1.00
6)	2.50 lakhs litres GLSR	Rs. 0.56

	<u>OTHER WORKS</u>	
1)	SUMPS	Rs. 0.75/lit
2)	RAPID GRAVITY FILTERS	Rs. 0.56/lit
3)	PUMP SETS	Rs. 3,000/H.P.
4)	PUMPING STATIONS	Rs. 2,000/SQm
5)	OTHER BUILDINGS	Rs. 2,430/SQm.

ANNEXURE-7-a

UNIT ESTIMATES

ABSTRACT ESTIMATE FOR CONSTRUCTION OF SLUICE AT THE
CANAL FOR INTAKE POINT FOR CPWS SCHEME - AP II - NALGONDA.

Sl. No.	Quantity	Particulars	Rate	Per	Amount
1)	3240.00 Cum	Earth Work excavation and depositing at soil with an initial lead of 10 Mts. and lift 2mts. for cutting the canal bank and refilling the same after construction of sluice including sectioning and rolling etc., complete.	200.00	10 Cum	64800-00
2)	120.00 Cum	Laying of C.C. (1:3:6) using 40 mm gauge metal for leveling course including cost and conveyance of all materials and labour charges complete including seignorage and cess charges complete.	537-45	1 Cum	76494-00
3)	36.00 Rmt	Cost of 900 mmØ RCC P2 class pipes with necessary collars including cost and conveyance of all materials and labour charges	L. S.	-	50000-00
4)	36.00 Rmt	Laying and jointing of 900 mmØ RCC P2 class pipes including lifting, alignment and jointing the collars including all labour charges	18.00	1 Rmt	648-00
5)	100.00 Cum	Construction of CRS masonry in CM (1:5) 2nd sort including cost and conveyance of all materials and labour charges including seignorage and cess charges complete.	432.60	1 Cum	43260.00
6)	70.00 Sqm	Plastering with cement mortar (1:3) 20 mm thick including cost and conveyance of all materials and labour charges complete including seignorage and cess charges complete.	390.00	10 Sqm	2730-00
7)	L.S.	Supplying and Fixing of mild steel works such as M.S. rods, channels, gate with wiremesh etc.	L.S.	-	20000-00
8)	L.S.	Provision for unforeseen items.			32068-00
Grand Total					300000-00

DETAILED ESTIMATE FOR THE CONSTRUCTION OF SLUICE AT THE
CANAL AT ALWAL VILLAGE FOR C.P.W.S. SCHEME NALGONDA.

Sl. No.	Particulars	No.	L	B	D	Quantity
1)	Earth Work excavation and depositing at soil with an initial lead of 10 Mts. and lift 2mts. for cutting canal bank and refilling the same after construction of sluice including sectioning and rolling etc., complete.	1x1	$\frac{6+24}{2}$	$\frac{6+42}{2}$	9.0	3240.00 Cum
2)	Laying of C.C. (1:3:6) using 40mm gage metal, for levelling course including cost and conveyance of all materials including seainorage & cess charges complete.	1x1	21.00	6.00	0.50	63.00
	Around the pipes for improving base at canal	1x1	18.00	3.00	1.50	81.00
	Add for additional soundness					<u>4.29</u>
	Deduct for pipe portation	$2 \times \frac{3.142}{4}$	(1x1x18.00)			148.28Cum 28.28Cum
	Net quantity					148.28-28.28 = 120.00 Cum.
3)	Cost of 900 mmØ RCC p2 class pipes with necessary collars including cost and conveyance of all materials and labour charges.	1x2	18.00	-	-	36.00R.M
4)	Laying and jointing of 900 mm Ø RCC p2 class pipes including lifting, alignment and jointing xxthe collars including all labour charges	1x2	18.00	-	-	36.00R.M
5)	Construction of CRS masonry in Cm(1:5) 3rd sort including cost and conveyance of all materials and labour charges including s/c charges complete.	1x1	6.00	$\frac{(3.6+0.45)}{2}$	9.00	97.20
	Construction of two retaining walls in front of the pipes L.S.	2x½	3.00	3.00	0.90	8.00
	Deduct pipe portation	$1 \times 2 \times \frac{3.142}{4}$	(1x1x3.6)			<u>0.35</u> 105.65Cum 5.65
	Net quantity					100.00Cum

1	2	3	4	5	6	7
6. Plasterin with cement Motor (1:3) 20 mm thick including c/c of all materials and labour charges complete. including seprise cess charges complete.						
Water side	1x1		6.00	-	9.00	54.00
for retaining walls	2x4/2		3.00	-	1.00	9.00
Add L.S for top of retaining wall						<u>3.57</u>
						71.57 Sq.mts.
Deduct pipe portion	1x2	(<u>3.142</u>)	1.00	1.00	-	<u>1.57</u> Sq. mts
		4				
					Net quantity	70.00 Cum
7) Supplying and Fixing of mild steel works such as M.S rods, channels gate with wiremesh etc. L.S						
8) L.S. for unforeseen item L.S.						

C.P.W.S. SCHEME FOR VILLAGES IN NALGONDA DISTRICT

ABSTRACT ESTIMATE FOR CONVERTING THE EXISTING RAMSAMUDRAM
TANK TO SUMMER STORAGE TANK AT ALWAL (V).

Sl. No.	Description	Quantity	Rate	Per	Amount
1.	Clearing light Jungle from existing tank bund both sides U/S & D/S	19200 Sq.m	1.88	10 Sq.m	3610.00
2.	Earth work excavation and depositing on bank with an additional lead of 0.50 Km over initial lead of 10 m and two additional left over initial left of 2 m in hard stiff clay, stiff B.C and red earth soils including consolidation with 2T. Roller including watering etc., complete for raising and strengthening of existing tank bund and forming new tank bund.	245000 Cum	29.00	1 Cum	7105000/-
3.	Collection and supply of gravel and storing at site for premeasurements and spreading the same over tank bund for gravel casing including cost and conveyance of all materials and bayer charges complete.	4467.00 Cum.	33.00	1 Cum	147411.00
4.	Rough stone dry packing 300 mm thick for revetment including cost and conveyance of all materials and labour charges complete.	4467.00 Cum.	123.35	1 Cum	551004.00
5.	L.S. for unforeseen works such as grouting to revetment and blasting the boulders etc.,		L.S		692975.00
					<u>8500000.00</u>

DETAILED ESTIMATE FOR CONVERTING THE EXISTING
RANASAMUDRAM TANK TO SUMMER STORAGE TANK AT ALMAL (V).

Sl. No.	Description	No.	L	B	D	Quantity
1	2	3	4	5	6	7
1.	Clearing of light Jungle from existing tank bund both sides	1X2	800.00	12.00 m	-	19200 Sqm.
2.	Earth work excavation and depositing on bank with an additional lead of 0.5 Km over initial lead of 10 m and with two additional lifts over initial lift & of 2 m in stiff B.C, red earth and ordinary soils including breaking clods and sectioning and rolling xxx with 2 Ton Roller including watering for raising and strengthening the bund and to level the tank bund area.	1X1	740.00 m	$\frac{3+39 \times 9}{2}$	$\frac{2.5+23 \times 5}{2}$	92685 Cum.
	Levelling the tank bund area	1X1	700	700	0.50 A.V	245000 Cum.
245000 - 92685 = 152315 Cum will be utilised for forming the new bunds in the other four four sides.						
3.	Gravel casing to U/S side of the tank bund.	1X1	740	20.12	0.30	4467 Cum.
4.	Rough stone dry packing 30 cm thick for revetment including cost and conveyance of all materials and labour charges complete.	1X1	740	20.12	0.30	4467 Cum.
5.	L.S for unforeseen items such as grouting to revetment if necessary etc.,				L.S.	

DATA SHEET

1. Earth work excavation and depositing on bank with an additional lead of 0.50 Km over initial lead of 10 m and two additional lift over initial lift 2 m in hard stiff clay, stiff B.C and red earth soils including consolidation with stone roller (2) Tonnes including watering for raising the bund.

10 cum cost of Earth work		= 99.84/10 cum
0.50 Km lead for earth work @ 16.50/1Cum		= 153.00
Add 3 lifts	11.30/3 lifts	= 11.30
Add watering and consolidation with stone roller of 2 Tonnes		= 12.00
Sundries		= 1.86
		<hr/>
		290.00
		<hr/>

Rate per 1Cum = 29.00/1Cum

2. Collection of gravel and stocking at site for premeasures and spreading the same for gravel base to tank bund.

1 Cum cost of gravel	8.86/ 1Cum	= 8.86
1 Cum lead for gravel (4Km)	19.52/ 1Cum	= 19.52
1 Cum spreading gravel 4.82/ 1Cum		= 4.82
		<hr/>
		33.00
		<hr/>

3. Rough stone dry packing 30 cm thick for revetment including cost and conveyance of all materials and labour charges complete.

1.10 Cum cost of Rough stone of size 300 mm @ 13.95		= 15.35
0.40 Nos woder or stone packer @ 21.95/each		= 8.78
1.10 Nos Man Mazdoors @ 22.53/each		= 24.78
0.70 Nos. women Mazdoors @ 22.53/each		= 15.77
1.10 Cum lead for Rough stone (10Km) @ 53.30/1Cum		= 58.63
		<hr/>
		123.35/1 Cum
		<hr/>

4. Clearing light Jungle = 1.88.

DETAILED CUM ABSTRACT ESTIMATE FOR CONSTRUCTION OF OFFICERS

QUARTER FOR N.A.P. NALGONDA.

Sl. No.	Description of item.	No.	L	B	D	Qty	Rate	Amount
1	2	3	4	5	6	7	8	9
1.	Earth work excavation in H.G.soils for foundations with initial xxx lead and lift as per standard specification							
	Alround Building	1x1	47.28	1.20	1.20	68.083		
	C/W between drawing room and kitchen, Dining,	1x1	8.18	1.20	1.20	11.779		
	C/W of Drawing room	1x1	3.34	1.20	1.20	4.809		
	C/W of Dining room Kitchen.	1x1	1.54	1.20	1.20	2.217		
	C/W of Bed room, Bath room.	1x1	7.75	1.20	1.20	11.160		
	L/W of Bath room	1x2	2.74	1.20	1.20	7.891		
	C/W of Bath room	1x1	1.24	1.20	1.29	1.786		
	L/W of Verandah	1x1	3.30	1.20	1.20	4.752		
	C/W of Varandah	1x1	1.50	1.20	1.20	2.150		
	Add for Projecting pillars.	1x2	0.34	1.24	1.20	1.011		
	Add for Steps in front.	1x1	2.00	1.20	0.15	0.360		
	Add for Steps in Reard.	1x1	0.90	1.20	0.15	0.162		
					Total	<u>116.132</u>	134-20	1558-00
							10 cum.	

2. Cement concrete (1:4:8) using of 40mm guage H.G. broken metal including cgst

and conveyance of all material and labour charges, water leads, curing for filling foundations as per standard specifications.

Alround	1x1	47.28	1.20	0.30	17.020
C/W between drawing, dining and Kitchen.	1x1	8.18	1.20	0.30	2.945
C/W of Drawing room	1x1	3.34	1.20	0.30	1.202
C/W of Drawing and Kitchen	1x1	1.54	1.20	0.30	0.554
C/W of Deb room A Bath	1x1	7.75	1.20	0.30	2.790
C/W of Bathroom	1x2	2.74	1.20	0.30	1.972
C/W of Bath room	1x1	1.24	1.20	0.30	0.448
L/W of Verandah	1x1	3.39	1.20	0.30	1.188
C/W of Verandah	1x1	1.50	1.20	0.30	0.540
Add for projection in pillars	1x2	0.34	1.20	0.30	0.244
Add for steps in front	1x1	2.00	1.20	0.150	0.360
Add for steps in rear	1x1	0.90	1.20	0.150	0.152

Total

29.127 cum 533.30 15693
1 cum 00

3. R.R. Stone masonry in CM (1:5) using H.G. stone including cost and conveyance of all material, labour charges, curing etc, complete for filling of foundation as per S.S. for finished item of work.

1	2	3	4	5	6	7	8	9
<u>1st FOOTING:</u>								
Alround the building	1x1	17.70	0.90	0.45	10.110			
L/W between drawing room and Kitchen	1x1	8.49	0.90	0.45	3.434			
C/W of Drawing room	1x1	3.61	0.90	0.45	1.434			
C/W of Drawing room and Kitchen	1x1	1.84	0.90	0.45	0.745			
C/W of Bed room, A bath	1x1	9.05	0.90	0.45	3.260			
L/W of Bath room	1x2	3.04	0.90	0.45	2.162			
C/W of Bath room	1x1	1.54	0.90	0.45	0.623			
L/W of Verandah	1x1	3.50	0.90	0.45	1.159			
C/W of Verandah	1x1	1.80	0.90	0.45	0.729			
Add for Projection of pillars.	1x2	0.34	0.90	0.45	0.275			
<u>2nd FOOTING</u>								
Alround the Building	1x1	47.28	0.75	0.45	15.257			
L/W Between Drawing room-Dining-Kitchen room	1x1	8.63	0.75	0.45	2.913			
C/W Drawing room	1x1	3.79	0.75	0.45	1.239			
C/W Drawing & Kitchen	1x1	1.99	0.75	0.45	0.672			
C/W Bed room A Bath	1x1	9.20	0.75	0.45	2.767			
L/W of Bath room	1x2	3.19	0.75	0.45	2.153			
C/W of Bath room	1x1	1.63	0.75	0.45	0.570			
L/W of Verandah	1x1	3.75	0.75	0.45	1.266			
C/W of Verandah	1x1	1.95	0.75	0.45	0.669			
Add for pillars.	1x2	0.34	0.75	0.45	0.230			
						Total	62.053	395.40
							Cum	Cum.
								245.44
								00.2

4. C.R.S. masonry in C.M 1:5
 2nd sort using HG stone
 including C/C of all material
 labour charges, curing etc.,

1	2	3	4	5	6	7	8	9
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complete for finished item of work as per standard specification for Basement								
Around the building	1x1	47.28	0.60	0.60	17.02			
L/W between Drawing, Dining	1x1	9.67	0.60	0.60	3.10			
C/W of Drawing room	1x1	3.99	0.60	0.60	1.41			
C/W of Dining and Kitchen	1x1	2.14	0.60	0.60	0.77			
C/W of Bed, Bath and Bed	1x1	9.35	0.60	0.60	3.006			
L/W of Bath	1x2	3.34	0.60	0.60	2.404			
C/W of Bath	1x1	1.84	0.60	0.60	0.662			
L/W of Verandah	1x1	3.90	0.60	0.60	1.404			
C/W of Verandah	1x1	2.10	0.60	0.60	0.756			
Add for projection of pillars.	1x2	0.34	0.60	0.60	0.245			
Add for steps front	1x1	2.00	0.90	0.20	0.36			
	1x1	2.00	0.60	0.30	0.24			
	1x1	2.00	0.30	0.20	0.12			
Add for steps Rear	1x1	0.90	0.90	0.20	0.162			
	1x1	0.90	0.60	0.20	0.109			
	1x1	0.90	0.30	0.20	0.054			
					Total	<u>32.17</u>	432.60	<u>13917</u>
						Cum	Cum	00

5. Flush pointing to basement with C.M. (1:3) to C.R.S. Masonry including C/C of all material, labour charges curing etc., complete for finished item of work

Around the building.	1x1	48.94	-	0.60	29.364	<u>156.45</u>	<u>459</u>
					Sqm	10Sqm	00

1	2	3	4	5	6	7	8	9
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6. Refilling the basement with excavated soils other than sand with watering and tamping complying to the standard specification.

Drawing room	1X1	5.24	3.94	0.44	9.29
Dining room	1X1	3.60	2.14	0.45	3.466
Kitchen room	1X1	3.34	2.14	0.45	3.216
Verandah	1X1	3.20	1.22	0.45	1.756
Bed room	1X2	3.34	3.94	0.45	11.843
Bath room	1X1	2.14	1.84	0.45	1.771
Hall	1X1	1.74	3.94	0.45	3.085

Total	34.627	56.45	195.00
	Cum	to cum.	

7. Super structure with brick masonry in C/M (1:6) using IInd class bricks including cost and conveyance of all material, labour charges, scaffolding, curing etc., complete for finished item of work as per S.S.,

Around the building	1X1	47.28	0.35	3.60	52.572
L/W between Drawing-Kitchen.	1X1	7.84	0.35	3.60	9.878
C/W of Drawing	1X1	4.20	0.35	3.60	5.292
C/W of Kitchen-Dining	1X2	2.40	0.35	3.60	6.048
C/W of Hall	1X1	6.51	0.35	3.60	8.202
C/W of Hall	1X1	2.10	0.35	3.60	2.646
Add for Brick pillars	1X1	0.35	0.35	3.60	0.441

1	2	3	4	5	6	7	8	9
	Add for parapet wall	1X1	47.28	0.23	0.45	1.893		
							<u>96.972</u>	
							Cum	
a)	Deduct for Doors and windows							
	D	1X9	0.90	0.35	2.00	5.570		
	D ₁	1X1	0.75	0.35	1.83	0.480		
	W	1X4	1.50	0.35	1.20	2.520		
	W ₁	1X7	0.90	0.35	1.20	2.646		
	V	1X14	0.50	0.35	0.30	0.882		
	(Almirah) A	1X5	1.20	0.23	1.83	2.525		
b)	Deduct for Lintels over						<u>14.723</u>	
	D	1X9	1.38	0.35	0.15	0.652		
	D ₁	1X1	1.21	0.35	0.15	0.052		
	W	1X4	1.96	0.35	0.15	0.411		
	W ₂	1X7	1.36	0.35	0.15	0.499		
	A	1X5	1.66	0.35	0.15	0.435		
							<u>2.059</u>	
							Cum	
c)	Deduct for Bed blocks	2X2	2x2.2	2x2.2	2x1.7	2x2.1		
	D	2X9	0.23	0.35	0.15	0.211		
	D ₁	1X2	0.23	0.35	0.15	0.023		
	W	2X4	0.23	0.35	0.15	0.093		
	W ₂	7X2	0.23	0.35	0.15	0.164		
	A	2X5	0.23	0.35	0.15	0.120		
							<u>0.611</u>	
							Cum	
	Total Deductions =				17.362 Cum	79.590	<u>586.70</u>	<u>46695</u>
	Net quantity of Brick work					Cum	Cum	00

A51

1	2	3	4	5	6	7	8	9	10
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8. R.C.C. (1:2:4) mix prop. using 20mm HG crushed metal including cost and conveyance of all material labour charges, curing, watering centering, including cost and fabrication of steel as per S.S.,

a) For Lintels over

D	1X9	1.36	0.35	0.15	0.642			
D1	1X1	1.21	0.35	0.15	0.662			
W	1X4	1.96	0.35	0.15	0.411			
W1	1X7	1.36	0.35	0.15	0.499			
A	1X5	1.66	0.35	0.15	0.435			

b) For Brasseur for verandah

					2.019	1206.35	2472.00
					<u>Cum</u>	<u>Cum</u>	

	1X1	1.67	0.35	0.15	0.130		
	1X1	3.82	0.35	0.15	0.10		
					0.13	1206.35	519.00
					<u>Cum</u>	<u>Cum</u>	

9. C.C. (1:2:4) for Bed blocks using HG metal including C/C of all material, labour curing etc., complete for finished item of work.

Qty. as per item No.7(C)

					0.511	1206.35	737.00
					<u>Cum</u>	<u>Cum</u>	

1	2	3	4	5	6	7	8	9
10.	R.C.C. (1:2:4) mix using 20mm HG crushed metal including C/C of all materials, labour charges centering, curing but excluding cost of steel and its fabrication for sun shades of 2.60cm projection beyond face of wall as per S.S.,							
	On windows	.1X1	4.30	-	-	4.30		
	From Portion	.1X1	2.00	-	-	2.00		
	Windows W	.1X2	1.96	-	-	3.92		
	Windows W2	.1X6	1.36	-	-	8.16		
	Verandah	.1X1	3.60	-	-	3.60		
	Add for shelves	5X3	1.35	-	-	20.35		
							42.21	55.55 2346.00
							Pmt	A.W.

12.	R.C.C. (1:2:4) mix using 20mm gauge HG metal including cost and conveyance of all materials, labour charges, curing, centering for Roof slab.							
	Dining, Kitchen, Drawing	1X1	8.18	7.92	0.125	7.792		
	Verandah	1X1	3.80	1.50	0.125	0.750		
	Hall	1X1	2.44	2.14	0.125	0.310		
	Bath & Bed room	1X1	4.20	11.86	0.125	6.236		
							15.492	
	Deduct for open portion	1X1	3.20	3.00	0.125	0.800		
							14.692	1244.20 18280
							Cum	00

1	2	3	4	5	6	7	8	9
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12. Plastering with C.M(1:3)
12mm thick including cost and conveyance of all material, labour charges, curing with all water leads, as per S.S. for finished item of work for ceiling.

Drawing	1X1	8.50	7.30	-	23.30		
Dining	1X1	3.90	2.40	-	9.36R		
Kitchen	1X1	3.60	2.40	-	9.54		
Verandah	1X1	3.50	1.80	-	6.41		
Bed	1X2	3.50	4.20	-	30.24		
Bath	1X1	2.40	2.10	-	5.04		
Corridor	1X1	2.78	0.90	-	2.50		
Hall	1X1	2.00	4.20	-	8.40		
					<u>93.762</u>		
Deduct for opening	1X1	3.20	2.00	-	6.400		
				Net	<u>87.362</u>	<u>215.10</u>	<u>1879</u>
					Sqm	10.59. m	00

13. Impervious coat over R.C.C. roof slab with C.M. (1:3) 12mm thick with Accoproof powderx at 1Kg 1 Bag of cement including cost and conveyance of all material, labour charges, curing with all water leads for finished item of work as per S.S.,

Dining-Kitchen-Drawing	1X1	8.18	7.62	-	62.33		
Verandah	1X1	3.80	1.60	-	6.080		
Hall	1X1	2.44	2.34	-	5.709		
Bath and Bed	1X1	4.20	11.86	-	46.1506	<u>294.35</u>	<u>3428</u>
					<u>120.371</u>	10.59. m	00

1	2	3	4	5	6	7	8	9
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14. Plastering in C.M(1:5)
12mm thick to inside
walls including cost
and conveyance of all
material and labour
charges, curing etc.,
complete for finished
item of works as per
standard specification.

Drawing		1X2	(5.50+3.20)		3.60	59.84		
Dining		1X2	(3.9+2.10)		3.60	43.36		
Kitchen		1X2	(3.6+2.4)		3.60	43.20		
Hall		1X2	(2+4.2)		3.60	44.64		
Bed		2X2	(3.6+4.2)		3.60	112.92		
Corridor		1X2	(2.78+C)		3.60	20.02		
Bath		1X2	(2.40+2.10)		3.60	32.40		
						<u>367.77</u>		
Deductions	D	1X6	0.90	-	2.00	10.80		
	D1	1X1	0.75	-	2.00	1.37		
						<u>12.17</u>	<u>182.00</u>	<u>6472.00</u>
Net Quantity.						355.60	10.59M	
						sq. m.		

15. Plastering with C.M(1:4)
12mm thick for outside walls
including cost and conveyance
of all material, labour curing
etc., complete for finished
item of work as per S.S.,

Drawing & Dining		1X1	7.62	-	3.60	27.432		
Drawing & Dining		1X1	5.84	-	3.60	21.024		
Hall		1X1	2.00	-	3.60	7.20		
Hall		1X1	2.00	-	3.60	7.20		
Bed		1X1	4.28	-	3.60	15.40		
Bed-Bath-Bed		1X1	11.95	-	3.50	42.50		
Bed		1X1	4.28	-	3.60	15.30		

1	2	3	4	5	6	7	8	9
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18. Supplying and fixing of best teak wood windows duly fixed with 16mm ϕ H.S. rods at 10cm. C/C including fixtures, tower bolts handle etc, complete as per A.P.D.S.S.								
	W	1X4	1.50	-	1.20	7.20		
	W1	1X7	0.90	-	1.20	7.56		
						<u>14.76</u>	<u>82.00</u>	13019.00
						or 158.79	Sft.	
						Sft.		

19. Supplying and fixing of R. Jallies (0.60x0.30m) 1X14						14 Nos	50.00	700.00
							P.R	

20. White washing with best shell-lime in two coats to the walls inside and ceiling including cost and conveyance of all material, labour charges for finished item of work as per S.S.								
	Qty. As per Item No (13)	ceiling				87.36		
	Qty. As per Item No. (14)					355.60		
						<u>442.96</u>	<u>16.50</u>	731.00
						Sqm.	16.50	

21. Snowcem painting in two coats over priming coat including cost and conveyance of all materials labour charges, etc., complete.								
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1	2	3	4	5	6	7	8	9
	Qty. as per Item No. (15)					194.16		
	Qty. as per ItemNo. (5)					29.36		
						<u>223.82</u>	<u>187.65</u>	<u>4200.00</u>
						Sum	Sum	

22. Painting to new wood work to Doors and Windows with ready mixed synthetic Enamel paint in two coats over priming coat including cost of a paint, labour charges, all incidental charges such as brushes and papers etc., complete for finished item of work as per S.S.,

Doors D	9x2 1/4	0.90	-	2.00	36.45		
D1	1x2 1/4	0.75	-	1.93	3.06		
Window W	4x2 3/4	1.50	-	1.20	19.80		
W1	7x2 3/4	0.90	-	1.20	20.79		
				Total	80.10	223.00	1802.00
					Sum.	10 Sum	

23. Fabrication charges of steel including cost of binding wire for finished item of work as per drawings and Designs.

1.5 T	900.00	1350.00
	m.T	

1	2	3	4	5	6	7	8	9
24.	Cost and Conveyance of Steel					1.5 T	<u>11000/-</u> m.T	<u>16500/</u>
25.	Provision for water supply and sanitary installations					5%		10000.00
26.	Provision for Electrical fittings					10%		20000.00
27.	L.S. for other un- forseen items of work.					L.S		<u>11681.00</u>
						Officers Quatter Per no.	Rs.	<u>250000.00</u>

Rate for Sq.m (Average) = $\frac{250000}{103}$ = 2427.10
 Say Rs. 2430.00/Sq.m

MODEL DETAILED CUM ABSTRACT ESTIMATE FOR CONSTRUCTION OF O.H.S.Ws

No	Item	No	L	B	D	40000 OHSR			60000 OHSR			1.00 Lk Lts OHSR			1.5 Lk Lts OHSR		
						Qty	Rate Per	Amount	Qty	Rate Per	Amount	Qty	Rate Per	Amount	Qty	Rate Per	Amount
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1.	Earth work excavation and depositing as bank with initial lead of 80 m and lift of 2 m in hard gravelly soils as per S.S 208 for foundation																
	1) for outer columns	1x4	2.00	2.00	1.50							24.00					
	11) for inner columns	1x4	2.00	2.00	1.50	14.42	134.30	194.00	17.34	134.30	233.00	24.00			74.73	134.30	1004.00
						Cum	10 Cum		Cum	10 Cum		Cum			Cum	10 Cum	
												48.00	134.30	645.00			
												Cum	10 Cum				
2.	Laying of Plain cement concrete (1:4:8) processing 40 mm H.G. metal including c/c of all materials and labour charges mixing water lead, tamping and other incidental or operational charges etc., complete for foundation bed.																
	1) for Outer columns	1x4	2.00	2.00	0.30							4.80					
	11) for inner columns	1x4	2.00	2.00	0.30	2.853	533.30	1538.00	3.468	533.30	1850.00	4.80			11.21	533.30	5979.00
						Cum	1 Cum		Cum	1 Cum		4.80			Cum		
												9.60	533.30	5120.00			
												Cum	1 Cum				
3.	MCC (1:1 1/2:3) Prop. using 20 mm H.G metal of granite variety obtained by blasting including c/c of all materials and labour charges mixing water lead, curing etc., complete for finished item of work as per S.S. for footings																

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
i) For base	1x4	1.70	1.70	0.15		1.734			1.176			1.734					
ii) For Trapezoidal portion	1x4	$0.36 \frac{(1.7^2 + 0.4^2)}{2} + 4 \frac{(1.2^2 + 0.4^2)}{2}$				1.46	$\frac{1333.10}{1 \text{ Cum}}$	1946.00	$\frac{0.13}{1.406 \text{ Cum}}$	$\frac{1333.10}{1 \text{ Cum}}$	2008						
For inner columns																	
i) For base	1x4	1.70	1.70	0.15								1.734					
ii) For trapezoidal portion	1x4	$0.36 \frac{(1.70^2 + 0.4^2)}{2} + 4 \frac{(1.2^2 + 0.4^2)}{2}$										2.135					
iii) Ring beam												7.738	$\frac{1333.10}{1 \text{ Cum}}$	10316	10.72	$\frac{1333.10}{1 \text{ Cum}}$	14291.00
															3.77	$\frac{1333.10}{1 \text{ Cum}}$	5026.00

4. V.K.C.(1:1:2:1) prop. using 20 mm H.G metal granite variety obtained by blasting including c/c of all materials and labour charges mixing, water lead and curing etc., complete for finished item of work as per S.8 for columns for outer columns.

i) Below ground level	1x4	0.30	0.30	0.70								0.282					
ii) 0 to 5 mt.	1x4	0.30	0.30	5.00	2.124	$\frac{2007.90}{1 \text{ Cum}}$	4265.00		2.106	2007.90	4120	1.80	$\frac{2007.90}{1 \text{ Cum}}$	4120	2.16	$\frac{2007.90}{1 \text{ Cum}}$	4237.00
iii) 5 to 8 m	1x4	0.30	0.30	3.00	1.08	$\frac{2022.75}{1 \text{ Cum}}$	2185.00		1.08	2022.75	2185	1.08	$\frac{2022.75}{1 \text{ Cum}}$	2185	1.08	$\frac{2022.75}{1 \text{ Cum}}$	2185.00
iv) 8 to 9.05 m	1x4	0.30	0.30	1.05	0.36	$\frac{2037.60}{1 \text{ Cum}}$	734.00		1.08	2037.60	2201	0.378	$\frac{2037.60}{1 \text{ Cum}}$	770	0.378	$\frac{2037.60}{1 \text{ Cum}}$	771.00

For inner columns

i) Below ground level	1x4	0.30	0.30	0.70								0.252					
ii) 0 to 5 m	1x4	0.30	0.30	5.00								1.80	$\frac{2007.90}{1 \text{ Cum}}$	4120	2.82	$\frac{2007.90}{1 \text{ Cum}}$	5663.00
iii) 5 m to 8m	1x4	0.30	0.30	3.00								1.08	$\frac{2022.75}{1 \text{ Cum}}$	2185	1.47	$\frac{2022.75}{1 \text{ Cum}}$	2974.00
iv) 8 m to 9.15m	1x4	0.30	0.30	1.15								0.414	$\frac{2037.60}{1 \text{ Cum}}$	844	0.612	$\frac{2037.60}{1 \text{ Cum}}$	1247.00

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

5. V.R.C.C (1:1 1/2:3) prop. using 20 mm H.G. metal with required quantity of steel including c/c of all materials, labour charges, curing water lead, centering charges, incidental charges etc., complete but excluding cost of steel and its fabrication charges for finished item of work as per S.S for braces.

1. for outer columns

1) below ground level	1x4	5.22	0.25	0.45								2.35 Cum			4.761 Cum	<u>1946.00</u> Cum	9269.00
11) 0 to 5 mt.	1x4	5.22	0.25	0.45								2.35 Cum	<u>1946.90</u> Cum	9150			
111) 5 m to 8 mt.	1x4	5.22	0.25	0.45								2.35 Cum	<u>1961.75</u> Cum	4610	2.38 Cum	<u>1961.75</u> Cum	4665.00

2. for inner columns

1) below ground level	1x4	2.53	0.25	0.45	2.02 Cum	<u>1946.90</u> Cum	3933.00	1.134 Cum	<u>1946.90</u> Cum	2208.00	1.14 Cum						
11) 0 to 5 mt.	1x4	2.53	0.25	0.45								1.14 Cum	<u>1946.90</u> Cum	4439	2.232 Cum	<u>1946.90</u> Cum	4246.00
111) 5 m to 8 mt.	1x4	2.53	0.25	0.45	1.01 Cum	<u>1961.75</u> Cum	1961.00	1.134 Cum	<u>1961.75</u> Cum	2225.00	1.146 Cum		<u>1961.75</u> Cum	2236	1.166 Cum	<u>1961.75</u> Cum	2189.00

6. V.R.C.C (1:1 1/2:3) prop. using 20 mm H.G. metal with required quantity of steel including c/c of all materials labour charges, curing, water lead, centering charges such as operational and incidental charges, etc., complete, but excluding cost of steel and its fabrication charges for finished item of work as per S.S. for bottom ring girder.

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1) for outer columns		II	7.85	0.35	0.40							3.45 Cum	I I I		4.521 Cum	1837.95 Cum	8438.00
11) for inner columns		II	4.00	0.30	0.30	1.03 Cum	1837.95 Cum	1893.00	1.31 Cum	1837.95 Cum	2408	1.13 Cum	1837.95 Cum	8418	1.429 Cum	1837.95 Cum	2627.00
7. V.K.C.C (1:1 1/2:3) prop. using 20 mm H.G. metal with required quantity of steel including c/c of all materials and labour charges such as operational and incidental charges etc., complete but excluding cost of steel and its fabrication charges for finished item of work as per S.8 for bottom slab.		II 4	8.2	-	0.30	4.78 Cum	1839.40 Cum	8892.00	5.30 Cum	1839.40 Cum	9749	15.84 Cum	1839.40 Cum	29136	17.59 Cum	1839.40 Cum	32355.00
8. V.K.C.C. (1:1 1/2:3) prop. using 20 mm H.G. metal with required quantity of steel including c/c of all materials and labour charges, curing water lead, centering charges, such as operational and incidental charges etc., complete, but excluding cost of steel and its fabrication charges for finished item of work as per S.5. for cantilever slab.		II§	9.10	0.90	0.10							2.57 Cum	3025.70 Cum	7776	2.60 Cum	3025.70 Cum	7867.00
9. V.K.C.C (1:2 1/2:3) prop. using 20 mm H.G. metal with required quantity of steel including c/c of all materials and labour charges, curing water lead, centering charges, etc., complete but excluding cost of steel and its fabrication charges for finished item of work as per S.6																	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
charges such as operational and incidental charges for finished item of work as per S.S. for top slab.	$\frac{II}{4}$	8.5 ²	-	0.15	2.342	<u>1855.30</u>	1853	2.37	<u>1855.30</u>	4397	8.51	<u>1855.30</u>	15789	8.47	<u>1855.30</u>	15715.00	
					Cum	Cum		Cum	Cum		Cum	Cum		Cum	Cum		
13. Refilling the foundation and basement with excavated soils, (other than sand) complying with standard specifications with watering, tamping, including breaking of clods etc., complete.					10.077	<u>56.45</u>	57.00	<u>10.99</u>	<u>56.45</u>	62.00	48.00	<u>56.45</u>	271.00	48.28	<u>56.45</u>	273.00	
Net quantity.					Cum	10 cum		Cum	10 Cum		Cum	10 Cum		Cum	10 Cum		
14. Supplying and fixing of R.C.C. purlin of 600 mm as per standard practice.	1 No.				1 No.	<u>808.00</u>	700.00	1 No.	<u>700.00</u>	700.00	1 No.	L.S	700.00	1 No.	<u>700.00</u>	700.00	
						Each			Each						Each		
15. S/F of fly proof C.S light type manhole cover 600 mm ϕ	2 No.				1 No.	<u>750.00</u>	750.00	1 No.	<u>750.00</u>	750.00	1 No.	L.S	1500.00	1 No.	<u>750.00</u>	750.00	
						Each			Each						Each		
16. S/F of fly proof ventilation with necessary copper wire.	2 No.				2 No.	<u>750.00</u>	750.00	1 No.	<u>750.00</u>	750.00	2 No.	L.S	1500.00	1 No.	<u>750.00</u>	750.00	
						Each			Each						Each		
17. S/F of R.C.C ladder of approved design 450 mm ϕ width inside.	1 No.				1 No.	<u>2000.00</u>	2000.00	1 No.	<u>2000.00</u>	2000.00	1 No.	L.S	2000.00	1 No.	<u>2000.00</u>	2000.00	
						Each			Each						Each		
18. S/F of R.C.C stairs cap outside the Tank	1 No.				1 No.	<u>20000.00</u>	20000.00	1 No.	<u>20000.00</u>	20000.00	1 No.	L.S	20000.00	1 No.	<u>20000.00</u>	20000.00	
						Each			Each						Each		
19. S/F of water level indicator	1 No.				1 No.	<u>3000.00</u>	3000.00	1 No.	<u>3000.00</u>	3000.00	1 No.	L.S	3000.00	1 No.	<u>3000.00</u>	3000.00	
						Each			Each						Each		
20. S/F of lightning arrester of approved practice.	1 No.				1 No.	<u>6000.00</u>	6000.00	1 No.	<u>6000.00</u>	6000.00	1 No.	L.S	6000.00	1 No.	<u>6000.00</u>	6000.00	
						Each			Each						Each		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
21. G.I. Hand railing with M/S angular iron at top all round the tank including c/c of all materials and labour charges, placing in position, centering and curing etc., complete its fabrication charges as per drawing L.S -	-	-	-	-	-	1 No.	5000.00	5000.00	1 No.	5000.00	5000.00	-	L.S	5000.00	1 No.	5000.00	5000.00
22. Painting with snow cem of approved colour, three coats over a primary coat including c/c of all materials labour charges etc., complete	-	-	-	-	-	$\frac{181.73}{\text{sqm}}$	$\frac{187.65}{10 \text{ sqm}}$	3410.00	$\frac{187.20}{\text{sqm}}$	$\frac{187.65}{10 \text{ sqm}}$	3513.00	$\frac{446.33}{\text{sqm}}$	$\frac{187.65}{10 \text{ sqm}}$	8748.00	$\frac{490.874}{\text{sqm}}$	$\frac{187.65}{10 \text{ sqm}}$	92.02
23. Provision for GI/CI pipe connection for inlet and outlet, overflow scan arrester arrangements including sluice valves, wheel duct foot, bands, ball mounts bands, etc., complete.	-	-	-	-	-	L.S	50000.00	50000.00	L.S	50000.00	50000.00	L.S	-	50000.00	L.S	50000.00	50000.00
24. Provision for fixing charges for pipes specials accessories, wheel, valves, sluice valves, threading charges and other labour charges c/c of all materials and all labour charges etc., complete.	-	-	-	-	-	L.S	6000.00	6000.00	L.S	6000.00	6000.00	-	L.S	6000.00	L.S	6000.00	6000.00
25. Provision for lettering with paint of approved colour as suggested by department officer etc., complete.	-	-	-	-	-	L.S	2000.00	2000.00	L.S	2000.00	2000.00	-	L.S	2000.00	L.S	2000.00	2000.00
26. Provision for drain, near scour over flow arrangements and fixing at site of necessary and bridge on edge and in ca(1:6) near pipe cap etc., complete.	-	-	-	-	-	L.S	2000.00	2000.00	L.S	2000.00	2000.00	-	L.S	2000.00	L.S	2000.00	2000.00
27. Cost of steel and conveyance	-	-	-	-	-	2.00 MT	$\frac{11000.00}{\text{MT}}$	22000.00	2.40 MT	$\frac{11000.00}{\text{MT}}$	26400.00	7.00 MT	$\frac{11000.00}{\text{MT}}$	77000.00	10 MT	$\frac{11000.00}{\text{MT}}$	11000.00
28. Fabrication charges of steel including cost of building wire and placing in position etc., complete.	-	-	-	-	-	2.00 MT	$\frac{900.00}{\text{MT}}$	1800.00	2.40 MT	$\frac{900.00}{\text{MT}}$	2160.00	7.00 MT	$\frac{900.00}{\text{MT}}$	6300.00	10 MT	$\frac{900.00}{\text{MT}}$	9000.00
29. Provision for unforeseen items such clearing and levelling the site to the required level etc., complete & escalation etc.,	-	-	-	-	-	L.S	-	17441.00	-	-	34326.00	-	L.S	81801	-	-	70298.00
								180000.00			210000.00			400000.00			450000.00
						UNIT PRICE	A66		4.50/Lit.		3.50/Lit			4.00/Lit			3.00/Lit

MODEL DETAILED CUM ABSTRACT ESTIMATE FOR CONSTRUCTION OF R.C.C. G.L.S.R OF

Description of work	No.	10,000 litres capacity						30,000 ltrs. capacity			60,000 ltrs. capacity			1,50 lakhs ltrs.			
		L	B	D	Qty	Rate per	Amount	Qty	Rate per	Amount	Qty	Rate per	Amount	Qty	Rate per	Amount	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Earth work Excavation in foundation and depositing on bank with initial lead of 10 mts. and lift of 2 mts. in loamy and clay soils like H.C. red earth and ordinary gravels including bailing out of water etc., complete as per S.S. 20B		2.75	0.90	0.90	9.67 Cum	134.30	94.00	6.13 Cum	134.30 10 Cum	82-00	14.92 Cum	134.30 10 Cum	200-00	18.56 Cum	134.30 10 Cum	249-00	
Laying of plain cement concrete (1:1:8) mix using 40 mm H.G. metal of trap variety obtained by blasting including cost and conveyance of all material and labour charges, watering, tamping, curing, mixing charges etc., complete for finished item of work as per S.S. for foundation bed.		2.75	0.90	0.90	3.22 Cum	533-30 Cum	1243.00	6.13 Cum	533-30 Cum	3269-00	14.92	533.30 Cum	7957.00	23.02	533.30 Cum	12277/-	
R.R. Stone masonry in Cement mortar (1:5) using H.G. stone including cost and conveyance of all material and labour charges such as mortar mixing, curing, watering and other incidental and operational charges for finished item of work as per S.S. for filling foundations.		2.75	0.60	0.60	4.29	395.40	1235-00							10.71	395.40	4235/-	

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

<p>4 C.R.S. masonry in C.M (1:1.5) using 2nd sort H.G. stone including cost and conveyance of all materials and labour charges at site such as mixing mortar, curing watering and other incidental and operational charges for finished item of work as per S.S. for Basement</p>	$\frac{11}{4} \times 3.2^2$	0.45	0.50	$\frac{2.41}{\text{Cum}}$	432.60	841-00	13.32 432.60 5762/				
<p>5 Refilling the basement and foundation with the excavated soils other than sand complying to the standard specification including watering tamping and breaking of clods and all labour charges etc., complete.</p>	$\frac{11}{4} \times 3.2^2$	0.50	$\frac{2.077}{\text{Cum}}$	56-45	12-00						
<p>6 Laying of plain cement concrete (1:4:8) mix using 40 mm H.G metal of trap variety obtained by blasting including cost and conveyance of all material and labour charges, curing tamping mixing etc., complete for finished item of work as per S.S. for bottom flooring.</p>	$\frac{11}{4} \times 3.2^2$	0.15	$\frac{2.12}{\text{Cum}}$	533-30	645-00						
<p>7 V.R.C.C. (1:1.5:3) prop. using 20 mm H.G. metal with required steel quantity including cost and conveyance of all material and labour charges curing mixing, centering charges such as incidental and operational charges etc., complete but excluding cost of steel and its fabrication charges for floor slab as per S.S.</p>	$\frac{11}{4} \times 3.2^2$	0-10	1.41	1245.40	1001.00	2.04	1245.40	2541.00	4.14	1245.40	5156.00

A68.

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<p>V.R.C.C. (1:1½:3) Prop. using 20 mm H.G. metal with required quantity of steel including cost and conveyance of all material and labour charges, curing mixing centering charges such as incidental and operational charges etc., complete but excluding cost of steel and fabrication charges for side walls as per standard specifications.</p>			IT x 3.10	0.10	1.75	<u>3.24</u> Cum	2522.40	4288.00	<u>4.34</u> Cum	2522.40	<u>10947</u> 00	5.126	2522.40	<u>129301</u> 00	11.179	<u>2572</u> 00	23198/-
<p>V.R.C.C. (1:2:4) prop. using 20 mm H.G. metal with required steel quantity including cost and conveyance of all materials and labour charges, mixing centering charges incidental and operational charges etc., complete but excluding cost of steel and its fabrication charges for Top roof slab as per S.S.</p>			IT x 3.4 ²	-	0.10	0.908	1244.20	1097.00								<u>6.30</u>	1244.00 1330.00
<p>Deduct for manhole cover</p>			IT x 0.6 ²		0.10	<u>1.519</u> 0.882 Cum											
<p>Flush pointing in C.m (1:3) 12 mm thick to C.Rs, masonry including cost and conveyance of all material labour charges, curing, watering lead etc., complete for basement.</p>			IT x 3.2	-	0.35	<u>4.67</u> sqm	156.45	55-00									

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
V.R.C.C. hand railing with VRCC posts at top around the tank including c/c of all material, labour charges placing in position cementing and curing etc., complete but excluding cost of steel and fabrication charges as per drawing posts at 1.5m intervals. Railing @ 0.3m intervals.							L.S	-	750.00	L.S	-	750.00	L.S	1000.00	L.S		750-00	
Snow cem painting in two coats even primary coat including cost and conveyance of all material and labour charges etc., complete for finished item of work as per S.S.																		
Basement			TTx3.2	-	0.35		3.52											
Side Walls			TTx3.2	-	1.75		17.50											
Top slab			TTx0.6 ²	-	-		11.00											
							<u>32.02</u>											
							Sqm											
Deduct for manhole cover			TTx0.6 ²				0.28											
							<u>34.71</u>	187.65	596.00	<u>52.11</u>	<u>187.65</u>	978.00	92.62	<u>187.65</u>	1738.00	<u>167.700</u>	<u>187.65</u>	3147.00
							sqm			sqm	10 sqm	sqm		10 sqm	sqm	10 sqm		
Earth work excavation for foundation and depositing on bank with initial lead of 10m and lift of 2m in loamy and clay soils like E.C.Red soils and ordinary gravel soils etc., complete for plat form around the tank.			TTx 4.35	1.00	0.15	2.54	<u>86.80</u>	18.00										
							10 Cum											

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
laying of plain cement concrete (1:1:8) proc. using 40 mm H.G. metal of trap variety obtained including cost and conveyance of all material and labour charges watering curing, mixing tamping with all water leads etc., complete for finished item of work as per S.S. for platform			4.35	1.00	0.15	2.54	533.30	1093.00									
								Cum									
laying of plain cement concrete (1:2:4) proc. using 20 mm H.G. metal including cost and conveyance of all materials, labour charges, curing, mixing water lead tamping etc., complete for finished item of work for platform.			4.275	1.075	0.15	2.164											
for Tim of platform (Korb) outside			5.15	0.10	0.10	0.165	1206.35	2810.00									
								2.65									
								Cum									
Supplying and fixing 1 No. of R.C.C. phenial 600 mmφ as per standard specifications.							L.S.	700-00	L.S.	-	700	L.S.	-	700.00	L.S.	-	700-00
Supplying and fixing of C.I. light type manhole cover with frame of 600 mmφ		1 No.					L.S.	500.00	L.S.	500 each	1000	L.S.	750.00	L.S.	500 each	1000-00	
Supplying and fixing 2 Nos. of fly proof ventilators with necessary copper wire.							L.S.	1000.00	L.S.	500 each	1000	L.S.	500 each	1000.00	L.S.	500 each	1000.00
Supplying and fixing of M.S. pipe ladder 40 mm φ with 300 mm width and G.I. Poles 3/4" steps at 0.3m o/c																	

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
including cost and 1 No. conveyance cutting, welding and all labour charges etc., complete and embedded and bottom flooring and top slab outside.							L.S.	2000.00	L.S.		2000.00	L.S.		3000.00	L.S.		3000.00	
20 Supplying of RCC 1 No. inside ladder.							L.S.	1000.00	L.S.		1000.00				L.S.		1000.00	
21 Provision for GI/CI pipe specials connecting for inlet, outlet overflow, and scour arrangements, duck foot bends etc., complete.							L.S.	7500.00	L.S.		7500.00	L.S.		10000.00	L.S.		10000.00	
22 Provision for fixing charges of C.I. inlet outlet pipes etc., complete.							L.S.	750.00	L.S.		750.00	L.S.		750.00	L.S.		750.00	
23 Provision for lettering with painting of approved colours.							L.S.	750.00	L.S.		750.00	L.S.			L.S.		750.00	
24 Supplying and fixing 1 No. of water level indicator of approved pattern with necessary wire gauge pulley including cost and conveyance of all material and labour charges etc., complete.							L.S.	500.00	L.S.		500.00	L.S.		500.00	L.S.		500.00	
25 Cost and conveyance of steel used for R.C.C. items of work.							0.90	11000/MT	9900.00	0.40	11000/MT	4400.00	500Kg	11000/MT	5500.00	2.284	11000	25124.00
							MT			MT				MT		MT		

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Fabrication charges of steel including cost of binding wire and plying in position etc., complete.						0.90 MT	900/MT	810.00	0.40 MT	900/MT	360.00	500Kgs	900/MT	450.00	2.284 MT	900/MT	2956.00
Provision for unforeseen items like plastering etc.						L.S.		2147.00	L.S.		6572.00	L.S.		12133.00	L.S.		41601.00
Total cost of								35000.00			50000.00			70000.00			175000.00

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice G. D. Ritchie, Chief Justice of the Supreme Court of the Province of Ontario" and "The Hon. Mr. Justice J. G. MacKay, Chief Justice of the Supreme Court of the Province of Quebec".

2. The second part of the document is a list of names and titles, including "The Hon. Mr. Justice J. G. MacKay, Chief Justice of the Supreme Court of the Province of Quebec" and "The Hon. Mr. Justice G. D. Ritchie, Chief Justice of the Supreme Court of the Province of Ontario".

3. The third part of the document is a list of names and titles, including "The Hon. Mr. Justice G. D. Ritchie, Chief Justice of the Supreme Court of the Province of Ontario" and "The Hon. Mr. Justice J. G. MacKay, Chief Justice of the Supreme Court of the Province of Quebec".

1	2	3	4	5	6	7	8	9						
b) 11)	Steing upto GL & 30 Cm above GL.	$\frac{22}{7}$	10.15	x	0.25	x	4.30	34.25	2522.40	86417/-				
4.	RCC (1:4:8) mix for 20mm guage trap crushed metal inclu- ding C/c of all materials and all labour charges etc., complete for dome top slab with 0.075 mts.	2x11x22x4xT	2	x	11	x	9.10	x	1.50	x	0.075	=	6.43	Cm
5.	RCC (1:1:3) mix for top ring beam.	$\frac{22}{7}$	10.45	x	0.30	x	0.30	2.95	2087.55	6158/-				
	Deduct Man lob cover	1x1	0.60		0.60		0.075	$\frac{0.30}{6.40}$	1855.30	11874/-				
6	Supplying & Fixing of RCC Ladder inside 45Cm wide with steps 30 Cm C/C inside the sump for top of dome slab to floor slab duly embeded in CC bed including c/c of all materials labour charges etc., complete.	1 No.			1 no.				1200.00	2000/-				
7.	S/F of fly proof venti- lator with copper wire mesh of approved pattern				4 Nos.				400.00	3000/-				
8.	S/F of C.I. light type man lob cover with frame 60 x 60 cm size in dome slab.				1 No.				500.00	750/-				
9.	S/F of RCC phenoil 60 cm dia on top of slab of approved pattern.				1 No.				400.00	700/-				
10.	Cost and conveyance of steel for RCC stemming.				3.50 @ MT				11000.00	38500/-				
11.	Fabrication charges of steel for RCC.				3.50 @ MT				900.00	3150/-				
12.	L.S. for U/F item as per actual work done and inside plastering and for over flow inlet pipes etc.,								L.S.	25660/-				
13.	Snow cem paint 3 coats for top dome, side wall above GLt etc.,				105.00 @ Sqm.				$\frac{187.65}{10}$ Cm	1970/-				
14.	Hand railing over top dome.				1 No.				L.S.	2000/-				

1	2	3	4	5	6	7	8	9
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Provision for over
 flow and drainage
 pipe including
 drainage area U/S
 items and escalating.

27970/-

Total Rs. 3,00,000-00

Unit prise = 0.75/litre.

MODEL DETAILED AND ABSTRACT ESTIMATE FOR THE WORK
CONSTRUCTION OF PUMP HOUSE OF SIZE 10 X 4 MTRS. @

Sl No.	Description of work.	No.	Measurements			D	Qty	Rate Per	Amount
			L	B	H				
1.	2.	3.	4.	5.	6.	7.	8.	9.	
1.	Earth work excavation in H.G. soils with an initial lead and lift including all labour charges etc., complete.								
	Long walls	1x2	11.25	0.90	1.20	24.30	134.20		
	Cross walls	1x2	3.45	0.90	1.20	7.45			
						<u>31.75</u>			426.00
2.	Laying of plain cement concrete bed (1:4:8) using 40 mm H.G. metal of trap variety obtained by blasting including C/C of all materials and all labour charges etc., complete for finished item of work as per S.S. for filling foundations.								
	Long walls	1x2	11.25	0.90	0.30	6.07			
	Cross walls	1x2	3.45	0.90	0.30	1.86			
						<u>7.93</u>	533.30	4229.00	
						<u>cum.</u>			
3.	R. W. Stone masonry in c.m. (1:5) using H.G. stone including c/c of all materials and labour charges at site such as mortar mixing, curing watering, and other incidental and operational charges for finishing item of work etc., complete.								

1	2.	3.	4.	5.	6.	7.	8.	9.
3.	Long walls	1x2	10.95	0.60	0.90	11.82		
	Cross walls	1x2	3.75	0.80	0.90	4.05		
						<u>25.87</u>		
							cum. 395.40	6275.00
4.	C.R.S.Masonry in CM(1:5) H.G. stone including c/c/ of all materials and labour charges at site such as mortar, mixing curing water lead etc., complete for finished item of work.							
	Long wall	1x2	10.80	0.45	0.60	5.83		
	Cross wall	1x2	3.90	0.45	0.60	<u>2.10</u>		
						7.93	432.50	
						cum.		3431.00
5.	Filling basement with excavated soils other than sand complying with S.S.							
	Room	1x1	9.90	3.90	0.45	17.37	56.45	98.00
						cum.	cum.	
6.	Brick masonry in cm(1:6) using 2nd class brick and all labour charges at site such as mortar mixing, curing water lead etc., complete for finished item of work as per S.S.							
	Long wall	1x2	10.70	0.35	3.00	22.47		
	Cross wall	1x2	4.00	0.85	3.00	<u>9.40</u>		
						30.87		
	for parapet wall around.	1x1	29.88	0.23	0.30	<u>2.06</u>		
						32.93		
						cum.		
<u>DEDUCTIONS:</u>								
	Qty of Lintel & bed	1x1	1.65	0.35	0.10	0.05		
	Windows	1x4	1.45	0.35	0.10	0.20		
	Openings Door	1x1	1.22	0.35	0.10	0.90		
	Openings Windows	1x4	0.30	0.35	0.45	0.18		
	Beams	2x2	0.30	0.35	0.15	0.06		
	Bed	1x6	0.30	0.35	0.15	0.09		
		4x4	0.30	0.35	0.15	<u>0.25</u>	3.41	
	Net Qty.		32.93	- 3.41	= 29.52	cum.	586.70	17319.00

1	2	3	4	5	6	7	8	9
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7. S/B of Door with best teak wood including wrought and put up etc., complete.

1x1	1.22	-	2.13	1 No or 2.50 Sqm. or 28.00 Sft.	
				<u>85.00</u> 1 Sq.ft.	2380.00

8. S/F of RCC jally ventilators including c/c of all materials and all labour charges etc., complete.

1x4	0.45	-	0.30	4 Nos	<u>30.00</u> Each	120.00
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9. S/F of fully panelled windows made of teak frame with shutters and fixing of 15 mm Iron roads 10 cm c/c including c/c of all materials and labour charges etc., complete.

1x4	1.00	-	1.20	4.32 sqm. or 52.00 sq.ft.	<u>82.00</u> Each.	4264.00
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10. Concrete cement (1:2:4) using 20 mm H.G. metal including c/c of all materials and labour charges etc. complete for bed beam

For doors	1x6	0.30	0.35	0.15	0.09	
For Windows	4x4	0.30	0.35	0.15	0.25	
For Beaming	4x2	0.30	0.35	0.15	<u>0.16</u>	
					0.40	1206.35
					cum.	483.00

11. RCC (1:2:4) prop. using 40 mm H.G. Metal and required quantity of slace including c/c of all materials and labour charges etc., complete with as centering, mixing, laying curing, water lead and other operational charges excluding cost of steel for Lintels.

Doors	1x1	1.65	0.35	0.10	0.85	
For Windows	1x4	1.45	0.35	0.10	<u>0.20</u>	
					0.25	1206.35
					cum.	302.00

1.	2.	3.	4.	5.	6.	7.	8.	9.
12.	RCC (1:2:4) using 20 mm H.G. Metal including c/c of all materials and all labour charges etc., complete for Survey shades of 0.60 mtrs. Projection excluding constructing steel & its fabrication.							
	for Doors	1x1	1.65	-	-	1.63		
	for Windows	1x4	1.45	-	-	5.80		
						7.45	<u>55.55</u>	414.00
						Pmt.	1 Pmt.	
13.	RCC (1:2:4) using 20 mm H.G. Metal including c/c all materials and labour charges using 100 Kgs. of steel but excluding cost of steel and fabrication charges.							
	for T beams	1x2	4.70	0.30	0.45	1.269	<u>1206.35</u>	1531.00
						cum.	1 cum.	
14.	RCC (1:2:4) using 20 mm H.G. Metal including c/c of all materials and labour charges etc., using 80 Kgs. of steel but excluding cost of steel and fabrication for roof slab 0.114 mtrs. thick.	1x1	11.90	5.90	0.114	8.00	<u>1244.20</u>	9954.00
						cum.	1 cum.	
15.	Improving coat plastering with CM(1:3) 12 mm thick using 1 Kg of Acco proof powder per bag of cement including curing water lead and all materials etc., complete.							
	Roof slab	1x1	11.90	5.90	-	70.21	<u>284.35</u>	1996.00
						Sqm.	10 Sqm.	
16.	Plastering with CM(1:4) 12mm thick including c/c of all materials, labour charges, curing scaffolding water lead etc., complete							
	Outside alround	1x1	30.80	-	3.30	101.64		
	Top of parapet	1x1	29.88	0.23	-	7.47		
	Inside parapet	1x1	28.96	-	0.23	6.66		
						<u>115.77</u>		

1	2	3	4	5	6	7	8	9
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16. DEDUCTIONS

Doors	1x1	1.22	-		2.13	5.19		
Windows	1x4	1.00	-		1.20	4.80		
Ventilators	1x4	0.45	-		0.30	<u>0.54</u>		
							10.53	190.15 2001.00

Net quantity = 115.77 - 10.53 = 105.24 Sqm.

17. Plastering with CM(1:5)
12 mm thick including c/c
of all materials and all
labour charges etc., for
inside wall.

Inside room	1x1	28.00	-		3900	84.00	182.00	1529.00
							Sqm.	

18. Plastering with CM(1:3)
12 mm thick including c/c
of all materials and all
labour charges etc.,

Ceiling	1x1	10.00	-		4.00	40.00	215.10	860.00
							Sqm.	

19. Flooring with cement
concrete(1:5:10) using
40 mm H.G.Metal 100 mm
thick and top plastered
with CM(1:4) 12 mm thick
including c/c if all ma-
terials and all labour
charges.

	1x1	10.00	4.00	-		40.00	561.25	2645.00
							Sqm.	

20. Pointing with CM(1:3) to
CRS Masonry for basement
cost and conveyance of
all materials and labour
charges etc., complete

Around.	1x1	31.20	-		0.60	18.72	156.45	293.00
							Sqm.	

21. Painting to Doors and
Window with best enamel
paint in two coats including
c/c etc., complete.

Doors.	1x2 1/4	1.22	-		2.13	5.84		
Windows	4x23/4	1.00	-		1.20	<u>13.20</u>		
						19.04	225.00	
						Sqm.	10 Sqm.	428.00

1	2	3	4	5	6	7	8	9
22.	White washing in two coats with best shell line including c/c of all materials & labour charges etc.,							
	Qty. as per item no.18 & 19				124.00	16.50		
					Sqm.	10	Sqm.	205.00
23.	Colour washing to basement and outside walls with gray colour including c/c of all materials and labour charges etc.,							
	Qty. as per painting item no. 16 + 20.				123.96	24.75		307.00
24.	Provision for Electrification including rain water spouts.						LS	500.00
25.	Provision for I.S.S.M.B. 200 girder for lifting the pumps and lowering the pumps.							
	2 Nos	4.60	25.40	-	233.68	L.S.		5000.00
26.	Cost and conveyance of Steel.						500	
							Kgs.	5500.00
27.	Fabrication charges of Steel.				500	900.00		
					Kgs.	MT.		450.00
28.	L.S. for Filter u/s item.						L.S.	7060.00

						TOTAL:		80000.00

10 x 4 mtrs. size pump room = ~~Rs.~~
Rs. 80,000.00

ANNEXURE-7b

MODEL DATA SHEET

Sl. No.	Quantity	Description of work	Rate	Per	Amount
1	2	3	4	5	6
1.	10.00 Cum	Earth work excavation in foundation and depositing on bank in all available soils like hard stiff clay soils like ordinary gravel soils with initial lead of 10 M and lift of 2M including bailing out of water and all labour charge etc., complete. Add 3 extra leads 3x340.	89.51	10 Cum	895.1
2.	1.00 Cum	Laying of plain cement concrete bed (1:5:10) using 40 mm HZ metal of trap variety obtained by blasting including cost & conveyance of all materials and labour charges tamping, complete for finished item of work as per 3.3 for filling foundation.			
	0.90 Cum	Cost of 40 mm HZ metal & conveyance	119.29	Cum	107.36
	0.46 Cum	Cost of sand and conveyance	41.55	"	19.15
	0.132 Cum	Cost of cement & conveyance	1900.00	MT	250.80
	0.46 Cum	Hand mixing charges	8.82	Cum	4.07
	0.06 Nos.	1st class mason	38.64	Each	2.32
	0.14 Nos.	IIInd class mason	29.10	"	4.07
	1.180 Nos.	Man mazdoor	22.53	"	26.58
	1.40 Nos.	Woman mazdoor	22.53	"	31.54
		13% labour importation			10.20
					<u>471.10</u>
		13% labour importation Sundries on 81.34.			
3.	1.00 Cum	Laying of plain cement concrete bed (1:4:8) using 40 mm HZ metal of trap variety obtained by blasting including cost and conveyance of all materials and labour charges tamping, watering, curing mixing etc., complete for item of work as per 3.3 for filling foundation			
	0.90 Cum	Cost of 40 mm HZ metal	119.29	Cum	107.36
	0.46 Cum	Cost and conveyance of sand	41.55	"	19.15
	0.156 MT	Cost of cement & conveyance	1900.00	MT	295.80
					<u>422.31</u>

1	2	3	4	5	6
	0.46 Cum	Hand mixing charges	5.83		2.57
	0.05 Nos.	1st class masons	38.54		2.21
	0.14 Nos.	IIInd class masons	29.20		4.07
	1.80 Nos.	Man mazdoor	22.53		40.55
	1.40 Nos.	Woman mazdoor			31.58
					10.20
		13% labour importation			<u>533.30</u>
4.1.00	Cum	R.R stone masonry in CH (1:5) using H3 stone including cost and conveyance of all material and labour charges at site such as mixing taking, watering and other incidental and operational charges for finished item of work.			
1.10	Cum	Cost of R.R stone and conveyance	53.30	Cum	53.30
0.34	Cum	Hand mixing charges	5.83	"	1.53
0.34	Cum	Cost of sand and conveyance	41.55	"	13.16
0.097	MT	Cost of cement and conveyance	1300.00	MT	134.30
0.54	Nos.	1st class masons	38.04		20.05
1.26	Nos.	IIInd class masons	29.10		35.53
1.40	Nos.	Man mazdoor	22.53		63.03
1.40	Nos.	Woman mazdoor			15.00
		13% labour importation			0.05
		Sundries			<u>392.10</u>
1.10		Scarfolding charges for stone			
0.34		1.10 RR acccharges			
		13% for labour importation on 134.06			
5.	10.00 Cum	Refilling the foundation and basement with excavated and other than sand complying with standard specification including watering, tamping and breaking of clods and all labour charges etc., complete. 1/2 the rate of E/W excavation add for watering and tamping Diff: SS20A and 20B			<u>81.71</u> 43.35 17.07 <u>56.15</u>
6.	100 Cum	C-3 masonry in CH (1:5) 2nd in basement using H3 stone including cost and conveyance of all materials and labour charges at site as mixing mortar, curing watering and other including and operational charges for finished item of work per S.8			

1	2	3	4	5	6
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6.

0.60	Cum	Cost of cut stone & conveyance	90.60		51.36
0.50	Cum	Cost of R.R. Stone and conveyance	53.30		26.63
0.32	Cum	Cost of sand and conveyance	11.66		13.33
0.75	Nos.	Ist class mason	38.65		23.93
0.092	MT	Cost of cement conveyance	1200.00		171.30
0.320	Cum	Hand mixing charges	5.23		1.05

252.53

1.75	Nos	IIInd class masons	29.11	Each	50.51
1.10	Nos	Man mazdoor	22.53		63.20
1.10	Nos.	Woman mazdoor			

13% labour importation Sundries 17.39

10.01

111.80

1.60 Scaffolding & charges

1.50 0.32 gage stone

7.

Super structure with brick:

on C.M (1:5) prop. using bricks including cost and of all materials and labour scaffolding, curing charges with complete for finished item for S.B

5.12	Nos.	Cost of bricks and conveyance	660.38	1000 No	332.11
0.23	Cum	Cost of sand and conveyance	41.66		11.66
0.28	Cum	Hand mixing charges	5.83		1.22
0.06	MT	Cost of cement and conveyance	1200.00		127.30
0.42	Nos.	Ist class brick layer	38.64		16.22
0.23	Nos.	IIInd class brick layer	29.10		20.51
0.70	Nos.	Man mazdoor	22.53		
2.10	Nos.	Woman mazdoor	22.53		63.00

5.12 No. Sc charges for 8.23

Sundries 11.01

526.70

8. 1.00 Cum Cement concrete in CM (1:2:4) using 20 mm HJ metal obtaining including cost and of all materials and labour charges such as mortar mixing curing centering etc., complete for finished item of as per S.S

1	2	3	4	5	6
0.92 Cum	Cost of 20 mm HG metal & conveyance		241.38	Cum	22.06
0.46 Cum	Cost sand and conveyance		41.66		19.16
0.330 RT	Cost of cement and conveyance		1900.00		621.00
0.160 Cum	Machine mixing charges		9.79		4.19
0.12 Nos.	1st class mason		38.64		4.93
0.28 Nos.	IInd class mason		29.10		8.140
2.10 Nos.	Man mazdoors		22.53		126.16
3.50 Nos.	Woman mazdoor				
	13% labour importation				13.05
	38.93				<u>1320.70</u>
0.92	Scavangs for 20 mm metal				
0.40	" Sand				
9.1.00 Cum	Cement concrete for bottom wear cast in (1:2:4) prop. using 20 m metal obta ned by blasting inclu- ding cost and conveyance of materials and labour charges mixing curing, cen- tering etc., finished item of work as per S.S				1029.70
1.00 Cum	Rate of (1:2:4) as per item NO.				
1.00 Cum	centering charges base S.S.R 232-L-13		44.76	Sundries	44.76
					<u>1073.30</u>
10. a)					
1.00 Cum	Cement concrete in (1:2:4) prop. 20 mm HG metal including cost and conveyance of all materials and labour charges such mortar mixing centering etc., complete for filling item of work as per S.S for Bed				1029.70
1.00 Cum	Rate of C.C (1:2:4) as item No.				
1.00 Cum	Centering charges for bed block		177.62		177.62
Int				Sundries	0.03
					<u>1207.35</u>
11. 1.00 Cum	R.C. S (1:2:4) prop using 20 mm guage HG metal & required quantity of site including cost and con- veyance of all materials and labour charges etc., plate such as centering, mixing, labouring water lead & other operational & including charges but excluding of steel and fabrication charges for lintels.				1029.70
1.00 Cum	Cost of (1:2:4) item No. 8				
1.00 Cum	Centering charges				8773 177.62 0.03
					<u>1706.35</u>

12. 1.00 RMT RCC (1:2:4) Prep using 20 mm IS metal
 0.60 mt wide projection beyond face
 for chajjes with required quantity
 of including and other operation
 nal and incidental charges inclu-
 ding curing water lead etc., com-
 plete for finish of work as per
 S. 12. for SUN SHADES.

0.215	Cost of C.C(1:2:4) as per item No. 8			46.29
		1022.70		
	Centering charges	9.29	for Rmt	9.29 Sundries
				0.02
				<u>55.25</u>

13. 1.00 Cum RCC (1:2:4) prop. using 20 mm
 guage IS broken metal with required
 quantity of steel including cost and
 conveyance of all materials, labour
 charges curing watering lead centering
 charges such as operational and inci-
 dental charges etc., complete but
 excluding cost of steel and fabrica-
 tion charges 11 mm thick SLAB

1.00 Cum	Rate of CC (1:2:4) as item No. 8			1022.70
0.86 Cum	Centering charges	92.33	220.30	Cum
				73.55
				<u>0.01</u>
				<u>1102.55</u>

14. 1.00 Cum RCC (1:2:4) prop. using 20 mm
 guage broken metal with required
 quantity steel materials labour charge
 water lead centering charges opera-
 tional and incidental charge complete
 but excluding cost its fabrication
 charges side walls (10 cm thick)

1.00 Cum	Rate of cc (1:2:4) as per item no. 8			1022.70
0.8	Centering charges		92.33	Cum
				73.55
				<u>0.01</u>
				<u>1102.55</u>

15. 10.00 Sqm Impervious coat plastering with
 CM(1:3) 12 mm thick using 1 kg
 of A proof power per bag of cemen-
 ting curing water lead and ball
 material etc., complete for
 finished item work as per S. 9

0.15 Cum	Cost of sand and conveyance	41.75		6.24
0.15 Cum	Hand mixing charges	5.72		0.87
0.072	Cost of cement and conveyance	1900.00		136.80
0.33 Nos.	Ist class mansen	38.61		12.73
0.77 Nos.	IInd class mansons	AS7	25.10	19.43

1	2	3	4	5	6
	0.50 Nos.	Man mazdoor	22.53		36.04
	0.10 Nos.	Woman mazdoor	22.53		
	1.51 Kgs.	Acceproof cement	40.00	Kg	60.00
		Scenarage charges for sand			9.75
10.00	Sqm	Plastering with C,M(1:3) 12 mm including c/c of all material charges, curing scaffolding etc., complete for finished items.			
	0.15 Cum	Cost of sand and conveyance	41.83		6.24
	0.15 Cum	Hand mixing charges	5.32		0.87
	0.072 MT	Cost of cement & conveyance	1900.00		138.60
	0.33 Nos.	Ist class mason	38.64		12.75
	0.77 Nos.	IInd class mason	29.10		22.40
	0.50 Nos.	Manmazdoor	22.53		36.04
	1.10 Nos.	Wemanmazdoor			
					213.10
10.	10.00	Sqm			
		Flush painting to CRS masonry CM (1:3) prep. including cost and conveyance of all materials labour charges, curing water lead charges etc., complete as per S.S			
	0.60 Cum	Cost of Sand and conveyance	41.66		2.19
	0.06 Cum	Hand mixing charges	5.32		0.31
	0.029	Cost of cement and conveyance	1900.00		55.10
	0.18 Nos.	Ist class bricke layers	38.64		19.51
	1.12 Nos.	IInd class brick layers	29.10		33.53
	0.50 Nos.	Man mazdoor	22.53		36.59
	1.10 Nos.	Weman mazdoors	22.53		
		13% Labour F			11.33
					0.02
					135.35
17.	10.00	Sqm			
		Plastering with CM(1:4) 12 mm thick including cost and conveyance of all materials and labour charges curing, scaffolding, water lead etc., complete for finished item of work as per S.S			
	0.15 Cum	Cost of sand and conveyance	41.66		6.71
	0.15 Cum	Hand mixing charges	5.32		0.87
	0.051 MT	Cost of cement and conveyance	1900.00		102.60
	0.33 Nos.	Ist class brick layer	38.64		12.75

1	2	3	4	5	6
	0.77 Nos.	II nd class brick layer	29.10		22.40
	0.50 Nos.	Man mazdoor			
	1.10 Nos.	Woman mazdoor	22.53		36.04
		71.19 13% L.I			9.25
					<u>190.15</u>
18.	10.00 Sqr	White washing in two coatings with best shelllime including cost and conveyance of all materials and labour charges etc., complete for finished item of work as per S.S			
19.	10.00 Sqr	Painting to doors and windows with best enamel paint in two coats including cost and conveyance etc., complete. S.E. (PR) Kurnool approved rate Memo.No.			
20.	1.00 Cum	Cement concrete in (1:1/2:3) prep. using 20 mm HG metal obtained by blasting including cost and conveyance charges such as mortar curing centering etc., complete for finished item of work as per S.S.			
	0.92 Cum	Cost of 20 mm HG metal and conveyance	241.38		222.06
	0.46 Cum	Cost of sand and conveyance	41.66		19.16
	0.441 MT	Cost of cement and conveyance	1900.00		837.90
	0.28 Nos.	IInd class masons	29.10		8.14
	0.12 Nos.	Ist class masons	38.64		4.63
	0.10 Nos.	Man mazdoor	22.53		126.16
	3.50 Nos.	Woman mazdoors	22.53		
	1.10 Cum	Vibrating charges	9.28		9.28
			138.93		Sundries 0.01
					<u>1245.40</u>
21.	1.00 Cum	RCC (1:1/2:3) prep. using 20 mm HG gauge broken metal with required steel quantity including cost and conveyance of all materials, labour charges curing, water lead centering charges such as operation and incidental charges etc., but excluding cost of steel and fabrication charges for floor slab			
	1.00 Cum	Rate of C.C (1:1/2:3) as per item No. 20			1245.40
	1.00 Cum	Centering charges SSR 232L-13 vibrating charges			23.38
					10.03
					<u>1468.80</u>

22.	1.00 Cum	VRCC (1:1 1/2:3) prop. using 20 mm HG with required steel quantity including cost and conveyance of all material labour charges, curing water lead centering charges such as operation and incidental charges etc., complete but excluding cost of steel and fabrication charges of steel as S.S for side walls			
	1.00 Cum	Rate of C.c (1:1 1/2:3) as per item 20.			1247.40
	10.00 Cum	Centering charges Circular surface	124.73	Sundries	1117.30
		Add (2) lifts	14.84	Cum	29.63
					<u>1247.40</u>
		Straight			1245.10
	10.00 Sqm		92.33		<u>933.30</u>
					<u>2068.70</u>

23. Sft Supply and delivery of fully pannelled Doors made of Teak wood frames with 4"x3" scantings with double shutters inclusive of all fixtures and furniture etc., complete as per A.P.S.S but exclusive of fixing at site for the following sizes (approved by the S.E., (PR(Kurnool dt:10.4.1967)).

- a) 4'-6" X 7'-0"
- b) 3'-8" X 7'-0"
- c) 3'-0" X 7'-0"
- d) 3'-3" X 6'-6"
- e) 3'-3" X 6'-6"
- f) 3'-0" X 6'-6"

05/SRT

24. Supply and delivery of fully pannelled windows made of Teak frame with 4"x3" scanting with shelters and fixing of 16 mm iron rods inclusive cost of all material, furniture and fixtures etc., complete as A.P.S.S. But exclusive of fixing charges at site for the following sizes (approved by S.E., PR Kurnool dt: 14.4.1967)

- a) 8'-0" X 4'-6"
- b) 6'-0" X 4'-6"
- c) 3'-0" X 4'-0"
- e) 3'-3" X 4'-0"

A90

1	2	3	4	5	6
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25.	10 Sqm	Flooring with shabad stone 40 mm thick set in CM (1:6) over CI bed 1:5:10 using 40 mm gauge H.B.3 metal and pointing with CM(1:3) including cost and conveyance of all material, labour charges curing etc., complete for finished item of work as per standard specification			
	0.47 Cum	Shabad stone	1131.65	10Sqm	475.00
	0.13 Cum	Cement mortar 1:6	503.48		60.41
	0.96 Cum	I class mason	38.61		37.09
	2.24 Cum	II class mason	29.10		65.18
	2.20 Cum	Man mazdoors	22.53		73.34
	2.10	Woman mazdoors	22.53		
	1 Cum	Cost of C.C 1:5:10	471.10		471.10
	0.05	Deduct cost of CM 1:3	959.48		(-) 47.97
		13% labour importation		Sundries	22.05
					<u>1139.10</u>

26.	1 cum	V.R.C.C (1:1 1/2:3) prep. for Braces			1245.40
	1 Cum	Cost of C.C (1:1 1/2:3)			
	10.22 Sqm	Centering charges 0-5mts.	68.64		701.50

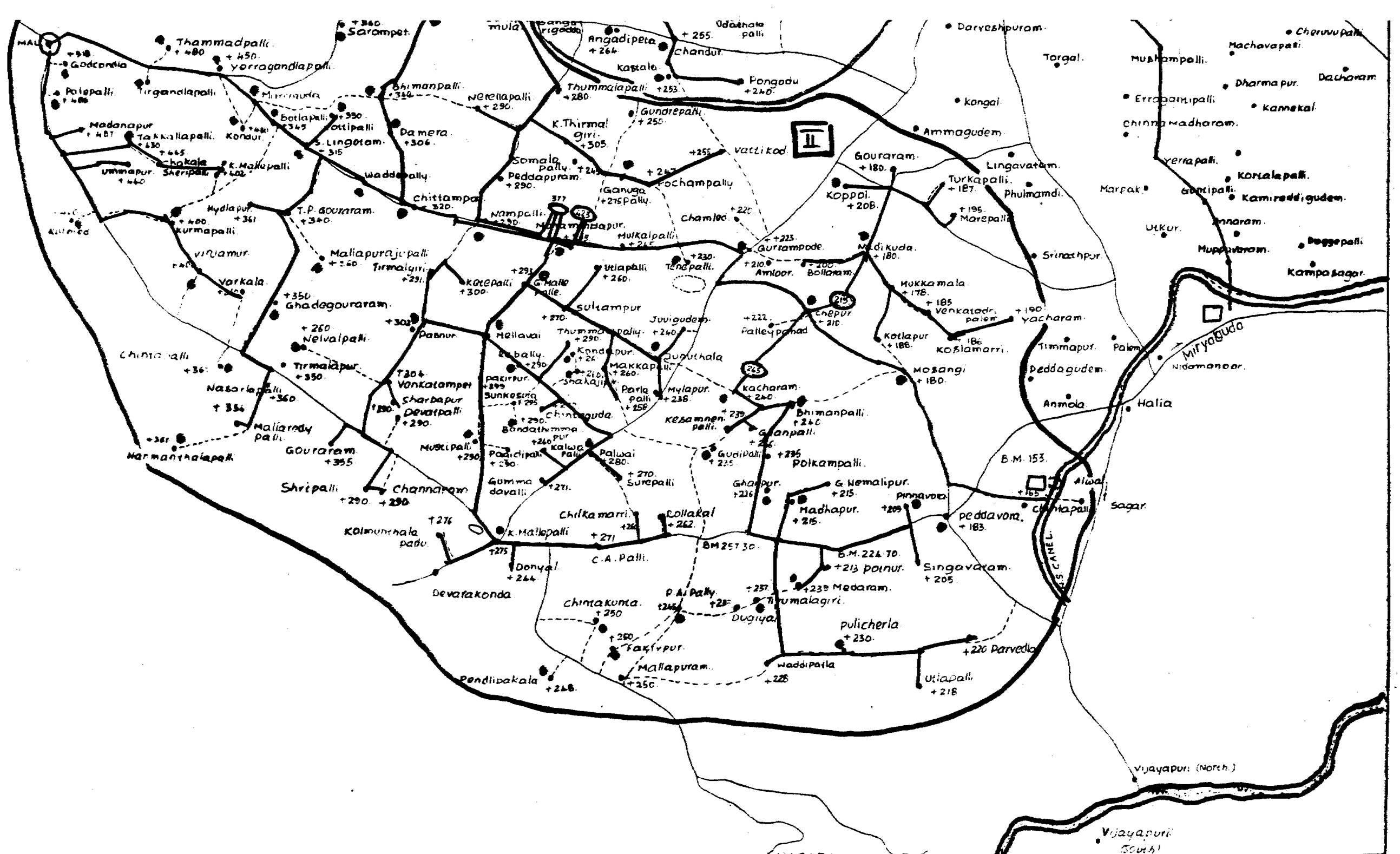
	<u>C.M</u>		<u>For 5-8 MTs</u>		
1:6	1:3		1 Lift	10.84	1861.74
1.00 x 41.66	1.0 X 41.66	Sand	For 5 - 11 MT		
0.24 x 1900	0.48 x 1900	Cement			
1.00 x 5.82	2.52	mixing	1 Lift	14.34	1976.58
	1.00 x 5.82				
	<u>503.48</u>				
	<u>959.48</u>				

27)	10 Sqm	Snow cem painting in two coats over primary coat including cost and conveyance of all material and labour charges etc., complete for finished item of work as per S.S			
	3.5 Kg	Cost of snow cem paint	30.00	M.R	105.00
	0.50 No	I class mason	38.64	Each	19.32
	1.50 No.	Man & woman mazdoors	22.53	"	32.79
	10. Sqm	Scaffolding charges for I and II floor as per item No. 232 to 234. A91	8.98	10 Sqm	8.98

1	2	3	4	5	6
	L.S	Brushes 100 mm wide 4 Nos..		LS	14.50
	L.S	For coir rope for scaffolding		LS	0.50
		13% Labour importation	42.77		5.36
					<u>167.53</u>
28.10	Sqm	Plastering with CM (1:5) 12 mm thick including c/c of all material labour charges, curing etc., complete			
0.15	Cum	Cost of sand	41.66	Cum	6.24
0.15	Cum	Mixing charges	5.02	"	0.97
0.813	MT	Cost of cement	1900.00	MT	91.70
0.33	No.	I class mason	38.34	Each	12.75
0.77		II class mason	29.10	"	22.40
1.5	No.	Man and woman mazdoor	22.53	"	47.31
0.5	Km	1/2 K.M water lead		K.M	10.71
		13%labour importation		Sundries	0.02
					<u>182.00</u>
29.	10	Sqm Flooring with C.C (1:5:10) using 40 mm H.B.G metal 100 mm thick and Top plastered with C.M(1:4) 12 mm thick including cost and conveyance of all material, labour and other operational and incidental charges including during mixing, water lead etc., complete for finished item of work as per S.S.			
	1.00	Cum Cost of C.C (1:5:10)	471.10	Cum	471.10
	10	Sqm Plastering with C.C 1:4 we mm thick	190.15		170.25
30.	1	Cum V.R.C.C (1:1/2:3) prop. for footings of OHSR.	1245.40		1245.40
	1	Cum Cost of R.C.C (1:1/2:3)	1245.40	Cum	1245.40
	1	Cum centering Charges	87.68		87.68
31.	1	Cum V.R.C.C (1:1/2:3) prop. for columns of OHSR			
	1	Cum Cost of C.C (1:1/2:3)	57.20		762.47
	13.33	Centering charges 0-5 mts			0.03
					2005.93
					14.84
		Add 1 Lift	14.84		0.01
					<u>2022.75</u>

1	2	3	4	5	6
32.	1 cum V.R.C.C (1:1 1/2:3) prep. for bottom Ring girder (outer)				1245.40
	1 Cum Cost of C.C (1:1 1/2:3)				1245.40
	8.2 Sqm Centering Charges	68.64	Sqm		562.84
	Add 2 lifts upto 8 m	14.84	each		29.68
					0.03
					<u>1837.95</u>
33.	1 Cum V.R.C.C (1:1 1/2:3) prep. for bottom slab				1245.40
	1 Cum Cost of C.C (1:1 1/2:3)				1245.40
	3.33 Centering charges	171.00	Sqm		564.30
	Eqm				
	Add 2 lifts	14.84	each		29.63
					0.02
					<u>1837.10</u>
34.	1 cum V.R.C.C (1:1 1/2:3) prep. for Top slab				1245.40
	1 cum Cost of C.C (1:1 1/2:3)				1245.40
	6.66 Centering charges	814.89	Sqm		565.76
	Eqm				
	Add 3 lifts	14.84	each		44.52
					0.01
					<u>1055.30</u>
35.	1 Cum V.R.C.C (1:1 1/2:3) Top ring Beam				1245.40
	1 cum cost of C.C (1:1 1/2:3)	1281.00			1245.40
	11.66 Sqm Centering charges	68.64	Sqm		797.53
	Add 3 lifts	14.84	each		44.52
					0.04
					<u>2971.53</u>
36.	1 cum V.R.C.C (1:1 1/2:3) prep for cantileur slab				1245.40
	1 cum cost of c.c (1:1 1/2:3)				1245.40
	10 Sqm Centering charges	171.60			1760.00
	Add 2 lifts	2x14.84			3005.10
	Side walls OHSR				29.58
					0.02
					<u>3025.70</u>
	1 cum VRCC (1:1 1/2:3)				<u>1333.10</u>
	Centering charges				92.33

1	2	3	4	5	6
37.	10.33 Cum	Earth work excavation and depositing as bank with an additional bed of 0.5 K.m over initial lead of 10 m and 2 additional lifts over initial lift of 2m in Hard stiff, B.C and red earth soils including consolidation with stone roller of 2 T including 1/2 Km lead	99.84	10 Cum	99.34
			12.00	10 Cum	12.90
		1/2 Km lead	15.18	1 Cum	15.18
		13% L.I			13.74
					0.94
					<u>145.50</u>
38.		Collection of gravel and stacking at site for pie measurements and spreading the same for gravel base to tank bund			
	1 Cum	Cost of gravel	34.43		34.43
	1 cum	lead for gravel(3Km)	9.83		9.83
	1 cum	spreading gravel 34.00			0.09
					<u>44.40</u>
39.		Rough stone dry packing 30 cm thick, revetment including c/c of all material and labour charges complete.			
	1.10	Cost of rough stone of size 300 @	153.30		59.63
	0.40 Nos	wadder	2135.00		0.78
	1.10 "	Man mazdoor	22.53		40.55
	0.70 "	Woman mazdoor			
		13% Labour Importation	49.33		0.41
				Sundries	0.03
					<u>101.20</u>
		clearing heavy angle as per 1990-91		10 Sqa	2.30
		lish			1.83
		scrubb			1.00
40.	10 cum	Earth work open well excavation in loamy clayey, B.C soils, red earth and ordinary gravel depositing as bank with lead of 20 mts inclusive all lifts above water level.			
		a) 1st mattu(above water level) ordinary gravel as per No. 9B PWD SSR	89.51	10 Cum	82.51
	10.00	b) Below water level, rate as above Add for Boiling of water			200.00
					<u>282.77</u>



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---	Z.P. Roads
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□	S.S. TANK
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—	PUMPING MAINS
—	GRAVITY MAINS
●	EXISTING PUCC SCHEMES
○	NO PUCC SCHEMES
○	O.H.B.R.S

1	2	3	4	5	6
II	Earth work excavation in H.P. soil below water level and depositing on bank with initial lead of 20 m including all lifts and bailing out water.				
	a) <u>Second matter</u> Thick the rate as per item No. 12B 86.77 deduct 15%		10 cum	260.31	
				(-) 39.01	
10 cum	Bailing out water			200.00	
				0.03	
				<u>421.35</u>	
	b) <u>Third Matter</u>				
	5 times initial rate @ 86.77				
	Deduct 15%			432.35	
10 cum	Bailing out water			(-) 65.07	
				200.00	
				0.02	
				<u>567.30</u>	
	c) <u>Fourth matter</u>				
	7 times the initial rate @ 86.77				
	Deduct 15%				
10 cum	Bailing out water.				
	d) <u>Fifth matter</u>				
	9 times initial rate 86.77		780.93		
	Deduct 15%		117.13		603.79
10 cum	Bailing out water				200.00
					0.01
					<u>863.90</u>
	e) <u>Sixth matter</u>				
	12 times initial rate of item 12B				873.04
	86.87				
	Deduct 15%				200.00
10 cum	Bailing of water				0.01
					<u>1073.05</u>
III	Earth work excavation in S. M.R removable by pickaxe, brow bar below water level and depositing on bank with a lead of 20 m inclusive of all lifts and bailing of water.				
	a) <u>Sixth matter</u>				
	12 times the initial rate 99.00				1017.87
					1198.90
					179.82
	Deduct 15%				200.00
		A95			

1	2	3	4	5	6
	10 cum	Bailing out water			0.03
					<u>1473.75</u>
43.		Refilling with excavated soils (other than sand) complying with standard specification (50% of normal rates of earth work be adopted and difference of S.S 20 A and 20B rates for breaking clods, watering & tamping).			
	a)	Ordinary gravel as per item No. 9B @ 5% of rate difference of 20B & 20A	86.77		43.38
					<u>10.30</u>
		99.84-89.51			<u>53.88</u>
	10 Cu b)	Hard gravel as per item 12 B			43.38
		Difference of 20B & 20A			10.33
		99.84-89.31			<u>53.71</u>
	c)	Soft disintegrated rock as per item no. 14 @ 50%			99.90
		Difference of 20 A & 20B			<u>99.90</u>

1	2	3	4	5	6
	10 cum	Bailing out water			0.03
					<u>1473.75</u>
43.	Refilling with excavated soils (other than sand) complying with standard specification (50% of normal rates of earth work be adopted and difference of S.S 10 A and 20B rates for breaking clods, watering & tamping).				
	a)	Ordinary gravel as per item No. 9B @ 5% of rate difference of 20B & 20A	86.77		43.38
					<u>10.30</u>
		99.84-89.51			<u>53.68</u>
	10 Cu b)	Hard gravel as per item 12 B			43.35
		Difference of 20B & 20A			10.33
		99.84-89.31			<u>53.71</u>
	c)	Soft disintegrated rock as per item no. 14 @ 50%			99.90
		Difference of 20 A & 20B			<u>99.90</u>