

CHECK LIST

Name of Block : CHANDIL WANIGAM (RETROFITTING)


Name of Water Supply Scheme : CHANDIL WANIGAM


Programme: JJM

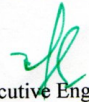
Cost under JJM : 342.25 Lacs

Name of Division : FBI Division Tangmarg

S. No.	Observations	Remarks
1	Whether check list duly signed / authenticated by the superintendent Engineer (Nodal Officer) appended or not.	Yes
2	Whether source certificate duly signed by the superintendent engineer appended or not as per JJM guidelines.	Yes
3	Whether 100% households FHTC in terms of quality and quantity.	Yes
4	Has the water requirements been worked out as per norms or JJM guidelines along pipe design (55LPCD)	Yes
5	Has designed period adopted for 30 years as per CPHEEO norms?	Yes
6	Whether new scheme / retrofitting of existing schemes.	Retro Fitting
7	Whether any kind of technology proposed in the scheme.	No.
8	Whether action plan approved by District Development Commissioner as per JJM guidelines DAP & VAP'S No.	Yes
9	Whether overlapping of the scheme does not consist.	No
10	Target date for completion of JJM December 2024	2022
11	Justification in any regarding additional proposal.	No.
12	For new proposal justification explained.	--
13	Is any provision for land compensation in DPR.	No.
14	Whether DPR for SVS, MVS, SB, MB.	MVS
15	Any provision for O&M.	No
16	Any provision for water meters.	Yes
17	Whether water quality test report at source & FHTC appended or not.	Yes
18	Provision for cattle troughs.	Yes No


Junior Engineer / Assistant Engineer


Assistant Executive Engineer
PHE Div. Tangmarg

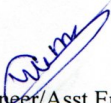

Executive Engineer
FBI Div. Tangmarg


Superintending Engineer
Hydraulic Circle
Baramullah / Bandipora
HQ Sore

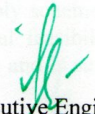
CERTIFICATE

The DPR of the Water Supply Scheme has been framed by PHE Sub-Division Tangmarg after due site visits and consultation with Pani Samiti's and PRI's of the target villages / habitations.

The proposal in the DPR are well conceived and the scheme is sure to provide lasting water supplies to the inhabitants at the rate of 55 LPCD and to all the institutions viz. Schools, Anganwadi's Helath Centres, Wellness Centres or any other institution within the target habitation and villages


Junior Engineer/Asst Engineer


Assistant Executive Engineer
PHE Sub Division
Tangmarg


Executive Engineer
PHE Division
Tangmarg

Source Certificate

Scheme : Water Supply Scheme Chandil Wanigam
Source: : Ferozpora Nallah
1 The source of the scheme is free from any dispute.
2 Discharge will cater the need of the designed population proposed to be covered under the scheme.
3 The scheme has been properly investigated proposals are viable to techno economic consideration.

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Assistant Executive Engineer
PHE Div. Tangmarg

Executive Engineer
FBI Div. Tangmarg

Superintending Engineer
Hydraulic Circle Baramullah / Bandipora
HQ Sopore

Feasibility Certificate

Scheme : Water Supply Scheme Chandil Wanigam
It is certified that the detailed project report for Water supply scheme Wailoo Kralpora has been prepared after determining the technical feasibility. It is further certified that the scheme has strong perennial source and is sustainable in the long run subject to geological changes.

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Hydraulic Circle Baramullah / Bandipora
HQ Sopore

Non-Duplicacy Certificate

Scheme : Water Supply Scheme Chandil Wanigam
Certified that the villages / Habitations proposed to be covered under water supply scheme Chandil Wanigam do not figure in the scope of any other ongoing scheme / project.

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Hydraulic Circle Baramullah / Bandipora
HQ Sopore

**APPLICATION FOR ACCORD OF ADDMITRATIVE APPROVAL FOR
WATER SUPPLY SCHEME CHANDIL WANIGAM (RETROFITTING).**

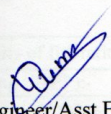
1	Name of Scheme	Water Supply Scheme Chandil Wanigam. (retrofitting)
2	Authority	Government of Jammu & Kashmir
3	Tehsil	Tangmarg.
4	District	Baramulla
5	Block	Chandil Wanigam
6	Panchayat	Chandil Wanigam, dewpora Dardpora, Kulhama, Tangmarg and Kunzar.
7	Type of Scheme	Gravity.
8	Type of Source	Ferozpora Nallah.
9	Planning	The objective of a public protected water supply system is to supply safe and clean water in adequate, conveniently and as economically as possible. The planning may be required at national level, state level or for region or community level. Though the responsibility of the department in charge of planning of water supply system in each of these cases is different, they still have to function within the priorities fixed by the national and the state governments taking into consideration the areas to be provided with water supply and the most economical way of doing it, keeping in view the overall requirements of the entire area.
10	Location	The villages under the scope of water supply scheme Chaldil Wanigam are located on lift side of NTR at an average distance of 10km from Tehsil head quarter Tangmarg. The area is topographically semi hilly and the villages are comparatively backward.
11	History and Necessity	The inhabitants of these village are presently getting water from Water Supply Scheme Chaldil Wanigam which is ongoing scheme under NRDWP. Due to existance of new colonies/ bastis the present water supply scheme can not Catter the scattered population because of laying and fitting of pipe networks. Also it has been found necessary to extend the present head works and to replace the existing worn out QC pipe line at various spots and also providing of concreat block supports to raw water main as being passing along the nallah


		<p>alignment.</p> <p>The scheme if proposed to be completed @55 LPCD as the guidelines of Jal Jeevan Mission. The DPR is submitted for accord of Administrative Approval from the competent authority so that the work can be taken up in hand for execution.</p> <p>The government of India has launched a massive programme namely JalJeevan Mission (JJM) to achieve the above target in the country by 2024 with the aim "Har Ghar Nal Sey Jal" by installing 100% functional Household Tap Connections(FHTC) in every rural household.</p> <p>Subsequently the Government of Jammu & Kashmir has decided to connect each and every household of the Union Territory with piped water supply by December 2021 for ensuring water security to its population. This shall be achieved by providing 100% potable water supply @55 LPCD in rural areas.</p> <p>Since with the launch Jal Jeevan Mission or providing water supply to every household (Har Ghar Nal Sey Jal), and as such immediate need to ensure supply of neat and clean water to the areas concerned has risen and an early accord of this proposal will be a step ahead in making this programme a success.</p>
12	Scope of the Scheme	The water supply sheme Chaldil Wanigam has been designed for providing water supply 13 habitation of the scheme .
13	Proposals:	
i)	Laying & Fitting of Pipes	It has been proposed to extend raw water main and stebalized damaged spots from source to site Greavity main. Beside sub main of 100/80/65mm dia are required in addition to the distribution system.
ii)	Anchor blocks	it has been proposed to construct anchor blocks for stabilization of existing raw/supply water main at spots.
iii)	Chainlink fancing	It is proposed to construct chainlink fancing around various structure to safe guard the vital structures.
iv)	Chowkidar quarter	It is proposed to construct gang huts / Chowkidar quarter near filtration plant / SR site for operational staff for proper maintains / operation of the scheme .

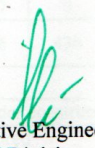
Estimated Cost	The estimated cost of the scheme works out to be Rs. 342.25 Lacs as per the Abstract of cost of various items enclosed.
Time of Completion	The time period of completion of this entire scheme will be two working seasons subject to availability of funds and key construction materials.
Executing Authority	Jal Shakti Department (PHE) Kashmir through FBI Division Tangmarg.

Recommendations:-

Supply safe and adequate water supply y way of functional household tap connection to every household of the target black under JalJeevan Mission, it is strongly recommended that the proposals may be accorded and funds be made available for implementation of the project.


Junior Engineer/Asst Engineer


Assistant Executive Engineer
PHE Sub Division
Tangmarg


Executive Engineer
FBI Division
Tangmarg

Sailent feature of Water Supply Scheme Chandil Wanigam

Under JJM (Retrofitting)

Name of Water Supply Scheme . Water Supply Scheme Chandil Wanigam

Source of Scheme . Feroz Pora Nallah

Type of Scheme . Gravity

Name of District . Baramullah

Name of Block. Chandil Wanigam

Scope of the Scheme .

Block	Name of Panchayat.	Name of village.	Name of Habitation.	Total H / H	Contd H/H	Uncontd H/H
Chandil Wanigam	Chandil Wanigam	Chandil Wanigam	Chandil - A	56	21	35
Chandil Wanigam	Chandil Wanigam	Chandil Wanigam	Chandil - B	56	55	1
Chandil Wanigam	Chandil Wanigam	Chandil Wanigam	Wanigam - A	107	49	58
Chandil Wanigam	Chandil Wanigam	Chandil Wanigam	Wanigam - B	38	28	10
Chandil Wanigam	Devpora Dardpora	Devpora Dardpora	Checki Frasti Reshi	27	16	11
Chandil Wanigam	Devpora Dardpora	Devpora Dardpora	Devpora Dardpora	93	42	51
Chandil Wanigam	Devpora Dardpora	Devpora Dardpora	Ganibaba A	5	5	0
Chandil Wanigam	Devpora Dardpora	Devpora Dardpora	Ganibaba B	31	31	0
Chandil Wanigam	Kulhama	Darhama	Darhama	49	29	20
Chandil Wanigam	Kulhama	Kulhama	Kulhama	57	41	16
Chandil Wanigam	Kulhama	Tumberhama	Tumberhama	125	106	19
Chandil Wanigam	Tangmarg	Check Terran	Langiwara	15	7	8
Chandil Wanigam	Kunzer	Pareswani	Pareswani	127	0	127
Total.				786	430	356

Capacity of fillration Plant.	
Existing (SSFP):-	0.16 MGD RSFP(under construction
Proposed (New) :-	Not Required
Capacity of Service Reservoir .	
Existing :-	0.50 + 0.30 = 0.80 Lac. Gallon
Proposed (New) :-	Not Required
Designed Population (ultimate stage)	5836 Souls
Designed Population (intermitent stage)	5216 Souls
Estimated cost :-	325.65 lacs.
Cost per House hold :-	
Cost per capta (Over) :-	
Present Population 4421 Souls:-	0.080
Intermitent population :-	0.070
Designed population :-	0.060
Executing agency:-	Jal Shakti Kashmir PHE Dept. through Jal Shakti F . B . I . Division Tangmarg.

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PHE Sub-Div. Tangmarg

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FBI Div. Tangmarg

Superintending Engineer
Hydraulic Circle Baramuula/Bandipora
HQ Sopore

Population Detail & Water Requirement of W.S.S Chandil Wanigam						
No.	Panchayat	Village	Habitation	Pop. 2020 YDU	Pop. 2036 @ 18%	Pop. 2051 @ 32%
1	Chandil Wanigam	Chandil Wanigam	Chandil - A	323	381	426
2	Chandil Wanigam	Chandil Wanigam	Chandil - B	323	381	426
3	Chandil Wanigam	Chandil Wanigam	Wanigam - A	647	763	854
4	Chandil Wanigam	Chandil Wanigam	Wanigam - B	365	431	482
5	Devpora Dardpora	Devpora Dardpora	Checki Frasti Reshi	143	169	189
6	Devpora Dardpora	Devpora Dardpora	Devpora Dardpora	565	667	746
7	Devpora Dardpora	Devpora Dardpora	Ganibaba A	31	37	41
8	Devpora Dardpora	Devpora Dardpora	Ganibaba B	187	221	247
9	Kulhama	Darhama	Darhama	238	281	314
10	Kulhama	Kulhama	Kulhama	295	348	389
11	Kulhama	Tumberhama	Tumberhama	560	661	739
12	Tangmarg	Check Trerran	Langiwara	61	72	81
13	Kunzer	Pareswani	Pareswani	683	806	902
	TOTAL			4421	5217	5836
	Total Ultimate Population =			5836	Souls	
	Add 15% Floating Population =			875	Souls	
	Total =			6711	Souls	
	Rate of Supply =			55	LPCD	
	Water Requirement			369109	Litres	
	Add 5% Cattle Population			18455	Litres	
	Total =			387565	Litres	
	Add 15% for System Losses			58135	Litres	
	Full Day Requirement =			445699	Litres	
	Or =			98172	Gallons	
	Half Day Requirement =			222850	Litres	
	Or =			49086	Gallons	
	Capacity of Existing Filtration Plant =			MGD		
	Capacity of Existing SR =			0.50 + .030 = 0.80 Lac Gallons		

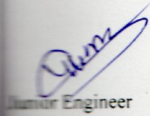
Junior Engineer/Asst. Engineer


Assistant Executive Engineer
PHE Sub-Div. Tangmarg


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FBI Div. Tangmarg

House Hold Details of Water Supply Scheme Chandil Wanigam

Block	Name of Panchayat.	Name of village.	Name of Habitation.	Total H / H	Contd H/H	Uncontd H/H
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Chandil Wanigam	Kulhama	Darhama	Darhama	49	29	20
Chandil Wanigam	Kulhama	Kulhama	Kulhama	57	41	16
Chandil Wanigam	Kulhama	Tumberhama	Tumberhama	125	106	19
Chandil Wanigam	Tangmarg	Check Trrran	Langiwara	15	7	8
Chandil Wanigam	Kunzer	Pareswani	Pareswani	127	0	127
			Total.	786	430	356


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
**DETAILED ESTIMATE FOR LAYING AND FITTING OF DIFFERENT DIA OF PIPES FOR WATER
SUPPLY SCHEME CHANDIL WANIGAM**


S. No.	Particulars	Unit	Quantity	Rate	Amount
1	Earthwork in excavation in trenches for pipes cables etc in all sorts of soils.				
	200mm DI pipe 2000 x 0.60 x 0.8 = 960.00				
	150mm DI pipe 1000 x 0.60 x 0.8 = 480.00				
	100mm DI pipe 2000 x 0.60 x 0.6 = 720.00				
	100mm GI pipe 1500 x 0.40 x 0.5 = 300.00				
	80mm GI pipe 1500 x 0.30 x 0.5 = 225.00				
	65mm GI pipe 3500 x 0.30 x 0.5 = 525.00				
	50mm GI pipe 5000 x 0.30 x 0.5 = 750.00				
	40mm GI 3800 x 0.30 x 0.5 = 570.00				
	25mm GI 5900 x 0.30 x 0.5 = 885.00				
	20mm GI 6800 x 0.30 x 0.5 = 1020.00				
	15mm GI 2500 x 0.30 x 0.5 = 375.00				
	Total: = 6810.00				
	80% all kjnds of soil = 5448.00	Cum	5448.00	436.00	2375328.00 ✓
	20% ordinary rock = 1362.00	Cum	1362.00	967.85	1318211.70 ✓
2	Dismantelling of DI/GI pipes (External work) including earthwork & refilling of trenches after taking out pipes				
a	100mm dia DI/GI : = 300.00				
	80mm dia DI/GI : = 300.00				
	Total: = 600.00	Rm	600.00	110.65	66390.00 ✓
b	20 to 40mm GI = 1000.00	Rm	1000	99.75	99750 ✓
3	Providing and fixing of 10mm thick MS flanges of required size including cost of nut bolts, welding charges, cutting of threaded portion etc with all leads lifts & carriages complete (rocky and hanging spots)				
	100mm dia GI : = 700 Rm @ 6.00 = 117	Joint	117	1200.00	140000.00
	80mm dia GI : = 600 Rm @ 6.00 = 100	Joint	100	1000.00	100000.00
4	Laying/fitting charges of pipes.				
	100mm GI pipe = 2000	Meter	2000.00	107.05	214100.00
	80mm GI pipe = 1500	Meter	1500.00	73.05	109575.00
	65mm GI pipe = 3500	Meter	3500.00	73.05	255675.00
	50mm GI pipe = 5000	Meter	5000.00	40.80	204000.00
	40mm dia GI : = 1500.00	Meter	1500.00	40.80	61200.00
	25mm dia GI : = 1500.00	Meter	1500.00	30.65	45975.00
	20mm dia GI : = 2000.00	Meter	2000.00	20.25	40500.00
	15mm dia GI : = 6000.00	Meter	6000.00	20.25	121500.00
5	Laying of Pipes in position in trenches.				
	200mm dia DI : 2000 Rm @ 32.33 Kg/Rm = 64660	Qtl.	646.60	245.55	158772.63
	150mm dia DI : 1000 Rm @ 24.00 Kg/Rm = 24000	Qtl.	240.00	245.55	58932.00
	100mm dia DI : 2000 Rm @ 18.00 Kg/Rm = 36000	Qtl.	360.00	245.55	88398.00

Particulars	Unit	Quantity	Rate	Amount
Providing push on joints to DI pipes including testing joints and including cost of rubber gaskets				
200mm dia K7 Pipe : 2000 Rm @ 5.5 Joint/Rm 364	Joint	364	213.00	77454.55
150mm dia K7 Pipe : 1000 Rm @ 5.5 Joint/Rm 182	Joint	182	144.00	26181.82
100 mm dia K7 Pipe : 2000 Rm @ 5.5 Joint/Rm 364	Joint	364	89.90	32690.91
Making connection of GI pipes distribution branches with mains of following sizes by providing and fixing of T's including cutting and threading of pipes complete				
25 to 40 mm dia	No.	65.00	666.60	43329.00
50 to 80 mm dia	No.	55.00	1268.85	69786.75
Backfilling of earth in trenches after laying & fitting of pipes				
90% of item no. 1 = 6129	Cum	6129.00	198.70	1217832.30
Fabricating, providing & fixing MS bends, Tees, Surface Boxes in pipe lines as per ground profile at site including all carriages	Kg	400	200	80000.00
Welding charges of leakage joints in GI pipe lines including earthwork, refilling & carriage of welding / DG set upto site of work complete job, 25mm to 100mm Dia GI	Job	60	700	42000.00
Carriage of pipes form divisional store upto dumping site of work by mechanical transport avergae lead 20 kms				
200mm dia DI : 2000	% Rm	2000	20.02	40040.00
150mm dia DI : 1000	% Rm	1000	12.31	12310.00
100mm dia DI : 2000	% Rm	2000	8.36	16720.00
100mm GI pipe 1500 Rm @9.94 Kg / Rm = 14910 Kgs				
80mm GI pipe 1500 Rm @6.61 Kg / Rm = 9915 Kgs				
65mm GI pipe 3500 Rm @5.81 Kg / Rm = 20335 Kgs				
50mm GI pipe 5000 Rm @5.29 Kg / Rm = 26450 Kgs				
40mm dia GI : 1500 Rm @3.25 Kg / Rm = 4875 Kgs				
25mm dia GI : 1500 Rm @2.01 Kg / Rm = 3015 Kgs				
20mm dia GI : 2000 Rm @1.41 Kg / Rm = 2820 Kgs				
15mm dia GI : 6000 Rm @1.00 Kg / Rm = 6000 Kgs				
Total = 88320 Kgs	M.T	88.32	301.6	26637.31
Extra carriage of pipes form dumping site to actual site of work by head load avergae lead 500 meters				
200mm dia DI : 2000	% Rm	2000	17.67	35340.00
150mm dia DI : 1000	% Rm	1000	11.78	11780.00
100mm dia DI : 2000	% Rm	2000	11.78	23560.00
100 to 15 mm GI pipe	MT	88.32	226.8	20030.98

Particulars	Unit	Quantity	Rate	Amount
Providing & fixing of approved brand regulating / sluice valves				
200mm dia sluice valve :	No.	2	25000	50000.00
150mm dia sluice valve :	No.	4	22000	88000.00
100mm dia sluice valve :	No.	4	20000	80000.00
50mm dia gate valve :	No.	4	5000	20000.00
40mm dia gate valve :	No.	5	4000	20000.00
25mm dia gate valve :	No.	5	2500	12500.00
20mm dia gate valve :	No.	5	1500	7500.00
15mm dia gate valve :	No.	5	1000	5000.00
TOTAL				7517000.94
Add 15% above on Item No. 11 & 12 only				30967.39
TOTAL				7547968.33
Say In Lacs				75.48


Junior Engineer / Asstt. Engineer


Asstt. Ex. Engineer
PHE Sub. Div. Tangmarg


Executive Engineer
PB Div. Tangmarg

**DETAIL ESTIMATE FOR CONSTRUCTION OF SADDLE / ANCHOR BLOCKS FOR WSS CHANDIL
WANIGAM**

No.	Particulars	Unit	Quantity	Rate	Amount
✓	Earthwork in excavation by manual means in foundation (exceeding 30cm in depth 15m in width as well as 1 Sqm on plan.				
	1 x 0.9 x 0.9 x 0.9 = 0.73				
	Total: = 0.73				
	70% all kinds of soil = 0.51	Cum	0.51	436.00	222.49
	30% ordinary rock = 0.22	Cum	0.22	967.85	211.67
✓	Providing and laying of boulder stone soling, size (hand packed).				
	1 x 0.9 x 0.9 x 0.152 = 0.12	Cum	0.12	816.4	100.52
✓	Providing/laying in position cement concrete of specified grade (1:4:8) 1 cement: 4 coarse sand : 8 graded stone aggregate 40mm nominal size (crushed) Mudmat.				
	1 x 0.9 x 0.9 x 0.101 = 0.08	Cum	0.08	4419.85	361.59
	Providing & Laying Cement concrete in position Cement concrete of specified grade excluding cost of centering and shuttering in 1:3:6 mix				
	1 x 0.9 x 0.9 x 0.647 = 0.52	Cum	0.52	4943.4	2590.69
✓	Reinforcement for R.C.C work incl. binding, cutting etc. (TMT Bars)				
	Qty. Vide item no. 4 = 0.52 @ 0.35 Qtls. / Cum = 0.18	Kgs	18.34	78.55	1440.80
✓	Centering and shuttering including strutting, providing etc. in:- Foundation, footings, bases of columns				
	1 x 4 x 0.9 x 0.9 = 3.24	Sqm	3.24	262.3	849.85
✓	12mm cement plaster finished with a neat coat of floating coat neat cement (1:4 mix)				
	1 x 0.6 x 0.9 = 0.54				
	Top: 1 x 0.9 x 0.9 = 0.81				
	Total = 1.35	Sqm	1.35	260.05	351.07
	Providing & fixing of nuts bolts and chip including one end fixin. anchor block				
	1 x 2.00 Kgs / block = 2	Kgs	2.00	92.85	185.70

**DETAILED ESTIMATE FOR CONSTRUCTION OF HEAD WORKS BY WAY OF CRATE WORKS OF
WSS CHANDIL WANIGAM**


S. No.	Particulars	Unit	Quantity	Rate	Amount
1	Earthwork in excavation (Bulk) by mechanical means over areas exceeding 30cm in Depth 1.5m in width Qty for making of new head works Intake channel 7 x 0.90 x 0.4 = 2.52 Intake Bowli 5 x 5.00 x 0.9 = 22.50 Total: = 25.02 40% all kinds of soil = 10.01 60% ordinary rock = 15.01	Cum Cum	10.01 15.01	188.80 378.8	1889.51 5686.55
2	Craete work of approved mesh incl. weaving / binding / tippingncl. Breaking of stones / layingof stones/ boulders incl. cost of stones / boulders incl. collecting of stones / boulders locally within/L of 1000 mtrs upto working site. Qty.: Double Tyre Back side: 1 x 1 x 4.8 x 1.5 x 0.90 = 6.48 Back side: 1 x 1 x 4.8 x 1.2 x 1.20 = 6.91 Sides: 1 x 2 x 2.6 x 1.5 x 0.90 = 7.02 Sides: 1 x 2 x 2.6 x 1.2 x 1.20 = 7.48 Front side: 1 x 2 x 1.8 x 1.5 x 0.90 = 4.86 1 x 2 x 1.8 x 1.2 x 1.20 = 5.18 Total = 37.93 Deduct 15% for voids = 32.24	Cum	32.24	2400	77377.20
3	Providing / filling of empty cement bags with sand / earth including cost of sewing, laqying in position incl.of cost EC bags & all carrages upto site of work Qty. Vide item no. 02 inside crate works for 2.40 x 2.60 size of each layer 0.20m thick including (intake channel) for depth of 2.20 m of intake bowli & 0.90 of intake channel	Bag	500	50.00	25000.00
4	Providing & laying of heavy duty polythene for aresting of leakages inside bowli including all carrages upto site of work	Sqm	100.00	80.00	8000.00
TOTAL					117953.26
Say In Lacs					1.18


Junior Engineer / Asstt. Engineer


Asstt. Ex. Engineer
PHE Sub. Div. Tangmarg

Executive Engineer
PB Div. Tangmarg

DETAILED ESTIMATE FOR CHAINLINK FENCING FOR WEST TANGMARG, WANGJAM				
Particulars	Unit	Quantity	Rate	Amount
Carriage of all materials from their respective source to site of work by mechanical transport				
a. Stone soling avg lead of 30 kms	Cum	0.123	513.22	63.13
b. Stone aggregate avg lead of 35 kms	Cum	0.55	479.72	263.85
c. Sand for an avg lead of 35 kms	Cum	0.29	479.72	139.12
d. Carriage of cement for an avg lead of 35 kms	Mt.	0.15	426.19	63.93
e. Carriage of steel for an avg lead of 35 kms	Mt.	0.02	426.19	8.52
Carriage of materials by manual means (head load 500m)				
a. Stone soling	Cum	0.123	540.18	66.44
b. Stone aggregate	Cum	0.55	540.18	297.10
c. Sand	Cum	0.29	309.3	89.70
d. Carriage of cement	Mt.	0.15	526.92	79.04
e. Steel	Mt.	0.02	526.92	10.54
TOTAL				7395.73
Add 10% on item 3,4 & 7 only				739.57
Add 15% on item 9 & 10 only				162.20
TOTAL				8297.50
Cost For Such 20 No.'s			165950 248925.10	
Say In Laes			1.66 Lacs 2.49	


Junior Engineer / Asstt. Engineer


Asstt. Ex. Engineer
PHE Sub. Div. Tangmarg

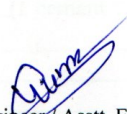

Executive Engineer
PB Div. Tangmarg


DETAILED ESTIMATE FOR CHAINLINK FENCING FOR WSS CHANDIL WANIGAM


No.	Particulars	Unit	Quantity	Rate	Amount
1	Earthwork in excavation by manual means in foundation (exceeding 30cm in depth 15m in width as well as 1 Sqm on plan. 1 x 60 x 0.9 x 0.6 = 32.40 Total: = 32.40 80% all kinds of soil = 25.92 20% ordinary rock = 6.48	Cum Cum	25.92 6.48	436.00 967.85	11301.12 6271.67
2	Providing and laying of boulder stone soling, size (hand packed). 1 x 60 x 0.9 x 0.15 = 8.10	Cum	8.10	816.4	6612.84
3	Providing/laying in position cement concrete of specified grade (1:4:8) 1 cement: 4 course sand : 8 graded stone aggregate 40mm nominal size (crushed) Mudmat. 1 x 60 x 0.9 x 0.10 = 5.40	Cum	5.40	4419.85	23867.19
4	Providing & Laying Cement concrete in position Cement concrete of specified grade excluding cost of centering and shuttering in 1:2:4 mix 1 cement: 2 course sand : 4 graded stone aggregate 20mm nominal size UG: 1 x 60 x 0.60 x 0.60 = 21.60 AG: 1 x 60 x 0.45 x 0.60 = 16.20 Total = 37.80 Add 5% for additional concreting for slopes & corners = 1.89 Total = 39.69	Cum	39.69	5877.45	233275.99
5	Structural steel work in built up sections and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (including carriage of materials from source to site) Angle Iron 50 x 50 x 6mm I) Vertical Posts : 42 x 2.82 = 118.44 Rm 118.44 @ 4.50 Kgs / Rm = 532.98 Kgs Angle Iron 45 x 45 x 5mm II) Horizontal (Top & Bottom): 2 x 60 = 120.00 Rm Diagonal: 21 x 3.4 = 71.40 Rm Total = 191.40 Rm 191.40 @ 3.40 Kgs / Rm = 650.76 Kgs Flat Iron 40 x 5mm III) Flat: 2 x 60 = 120.00 Rm Diagonal: 21 x 3.4 = 71.40 Rm Total = 191.40 Rm 191.40 @ 1.60 Kgs / Rm = 306.24 Kgs TOTAL = 1489.98 Kgs	Kgs	1489.98	82.75	123295.85

No.	Particulars	Unit	Quantity	Rate	Amount
5	Providing & fixing of Chain link fencing of approved quality of mesh 1 x 60 x 1.82 = 109.2	Sqm	109.20	733.50	80098.20
7	Centering and shuttering including strutting, providing etc. in:- Foundation, footings, bases of columns UG: 2 x 60 x 0.60 = 72.00 AG: 2 x 60 x 0.60 = 72.00 Sides: 2 x 0.45 x 0.60 = 0.54 2 x 0.45 x 0.60 = 0.54 Total = 145.08	Sqm	145.08	262.30	38054.48
8	✓ 12mm cement plaster finished with a neat coat of floating coat neat cement (1:4 mix) Walls: 2 x 60 x 0.6 = 72.00 Top: 1 x 60 x 0.45 = 27.00 Total = 99.00	Sqm	99.00	260.05	25744.95
9	✓ Painting with synthetic enamel paint of approved brand and manufacture of required shade and colour to give smooth finish with two or more coats on new steel work Walls: 1 x 60 x 1.82 = 109.20 Total = 109.20	Sqm	109.20	121.95	13316.94

S. No.	Particulars	Unit	Quantity	Rate	Amount
10	Carriage of all materials from their respective source to site of work by mechanical transport				
	a. Stone soling avg lead of 2 kms	Cum	8.1	322.8	2614.68
	b. Stone aggregate avg lead of 2 kms	Cum	40.58	274.41	11135.56
	c. Sand for an avg lead of 50 kms	Cum	21.43	609.02	13051.30
	d. Cement for an avg lead of 25 kms	Mt.	14.06	313.04	4401.34
	TOTAL				593042.11
	Add 10% above on item no. 3, 4, 5 & 8				40618.40
	Add 15% above on item no. 10 & 11				4680.43
	Cost for 60 Meters				638340.94
	Cost for 1 Meter				10639.02
	Cost for 153 Meters				1628833.29
	Say In Lacs				16.29


Junior Engineer / Asstt. Engineer


Asstt. Ex. Engineer
PHE Sub. Div. Tangmarg


Executive Engineer
FB Div. Tangmarg

Detailed estimate for construction of Sluice Chamber

Description	Unit	Qty	Rate	Amount
Excavation by manual means over areas (exceeding 30cm x 1.5mtr in width as well as 10sqm on plan) including disposal of earth upto 1mtr. For cutting edge, disposal earth to be leveled & dressed in all kinds of soil.				
1 x 2.500 x 2.500 x 2.100 = 13.125				
Total = 13.13				
Ordinary Rock 30% = 3.94	Cum	3.94	967.85	3811
All kinds of soil 70 % = 9.19	Cum	9.19	436	4006
and laying of stone soling (hand packed) in excavated including carriage by mechanical transprot at site of work				
1 x 1.820 x 1.820 x 0.152 = 0.505				
Total = 0.50	Cum	0.50	816.40	412
and laying in position cement concrete of specified grade including cost of centring and shuttering- All work upto plinth level. Cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal				
1 x 1.820 x 1.820 x 0.152 = 0.505				
Total = 0.50	Cum	0.50	4419.85	2231
and laying specified grade of reinforced cement concrete in cement : 2 sand: 4graded stone aggregate 20mm nominal				
1 x 1.820 x 1.820 x 0.300 = 0.994				
4 x 2.100 x 0.300 x 1.800 = 4.536				
1 x 1.82 x 1.820 x 0.152 = 0.50				
Total = 6.03	Cum	6.035	6344.25	38284
and fixing of MS main hole cover of 0.75 x 0.75 size fixed with				
	Job			2500
reinforcement in position including necessary cuttings, placing in position including cost of binding wire				
vide Item No:4 @ 0.60 Qtls/cum = 362.07	Kgs	362.07	71.00	25707
shuttering, strutting and propping etc and removal of form				
Footings, bases of columns				
4 x 1.820 x 0.300 = 2.18	Sqm	2.18	179.25	391
8 x 2.10 x 1.800 = 30.24	Sqm	30.24	342.80	10366
1 x 1.82 x 1.820 = 3.31	Sqm	3.31	372.40	1234
and plaster in 1:4 mix (1 cement :4 sand)				
4 x 1.820 x 2.100 = 15.288 sqm				
Slab 1 x 1.820 x 1.820 = 3.312 Sqm				
Total = 18.600 Sqm				
Manhole cover (0.75 x 0.75) = 0.563 Sqm				

Net Qty = 18.60 - 0.563 = 18.04				Sqm	18.04	158.00	2850
Providing and Laying and fitting of washout supply main and over flow 100 mm dia GI							
	1	x	50.000	Rm			
				Rm	50.00	1135.35	56768
Carriage of materials by mechanical transport including loading, unloading complete							
Stone Soling 8 Kms				Cum	0.50	256.80	130
Stone Aggregate 12 Kms				Cum	5.82	288.42	1679
Sand Avg Lead of 32 Kms				Cum	11.06	453.50	5016
Cement Avg lead of 12 Kms				MT	3.49	235.87	822
Angle Iron/ Steel of 12 kms				MT	3.6	235.87	854
Carriage of materials by manual means (head load 500m)							
Stone Soling				Cum	0.50	635.48	321
Stone Aggregate				Cum	5.82	583.96	3399
Sand				Cum	11.06	540.18	5974
Cement				MT	3.49	309.30	1078
Angle Iron/Steel				MT	3.62	309.30	1120
Total = Rs						168952	
Add 15 % above on all items						25343	
Total = Rs						194295	

Cost for such 5 No = Rs 9.71 lacs

Junior Engineer/Asst. Engineer

Asstt. Ex. Engineer,
PHE Div. Tangmarg

Executive Engineer,
FBI Div Tangmarg

Detailed Estimate for Construction of approach road to structures

(3.50m road way)

S.No.	Name of Items	Unit	Qty	Rate	Amount
1	Earth work in cutting /filling by mechanicals means including ramming of sides areas exceeding 30mm in depth 1.5mm width as well as 10 sqm as plan including disposal of excavated earth as directed by the site Engineers complete.				
	$1 \times 100.00 \times 3.50 \times 0.601\text{m} = 210.35 \text{ cum}$				
	Add 5% for curves = 10.52 Cum				
	Total = 220.88Cum	Cum	220.87	188.75	41689
	Supply and stacking of Graded stone aggregate at site of size range excluding carriages (most)				
	a. 90-45mm (Stone agg)				
	$1 \times 100\text{m} \times 3.50 \times 0.15\text{m} = 52.50\text{cum}$				
	Add 5 % for curves = 2.63 Cum				
	Total = 55.13 Cum	Cum	55.13	492.75	27165
	b. 63 - 45 mm (Quarry stone aggregate)				
	Two coats = $1 \times 2 \times 100\text{m} \times 3.50 \times 0.075 = 52.50\text{cum}$				
	Add 5 % for curves = 2.63 Cum				
	Total = 55.13 Cum	Cum	55.13	564.6	31126
	Laying of WBM with specified stone aggregate stone screening and building material including screening sorting, spreading to taplate and consolidation with PRR of 8 to 10 ton capacity etc complete payment for stone aggregate, screening kankar, maroom and real bajrietc& be made separately.				
	Base course with 90mm - 45mm size				
	Qty vide item no 2 a = 55.13 cum				
	Base course with 63mm - 45mm size				
	Qty vide item no 2 b = 55.13 cum				
	Total = 110.26	Cum	110.26	574.6	63355
5	Supply and stacking of stone screening /chippings at site excluding carriage 13.2mm nominal size type (a)				
	Base course with 90mm - 45mm size				
	Qty Vide No 2a= 55.13cum@23%=12.68Cum				
	Base course with 63mm - 45mm size				
	Qty Vide No 2b= 55.13cum@16%=8.83Cum				
	Total = 21.500	Cum	21.5	504.4	10845
6	Supply and stacking of maroom excluding carriages				
	Qty Vide No 2(a+b)=110.26cum@8%=8.83Cum	Cum	8.83	528.5	4667
7	Providing and applying of thick coat using not straight run bituminous of grade 80 - 100 including heating of bituminous and spraying the bitumen with mechanically sprite spray unit fitted in bitumen boiler cleaning and preparing the excluding road surface to remove all dust and dirt grass. Vegetation including finally Booming the surface as per required specification on new surface uses for @ 0.75 kgs/sqm including all carriage tools, plants etc.				
	$1 \times 100 \text{ m} \times 3.50 = 350 \text{ sqm}$ ----- "A"				

Add 5 % for curves = 17.50 sqm				
Total = 367.5sqm—"B"		Sqm	367.5	55.45 20378
8	Providing and laying of 50mm thick compacted premix Bituminous Macadam base course with stone aggregate of quantity size and grading as specified in most specification and straight run bituminous of grade 80-100 @ 3% by weight of total mix including hot mixing plant transporting and laying mixed material with paper finished to required level and grade rodding with road rotter of 8-10 tonne capacity to achieve the required gradients density including cost and all carriage material involved from source to site complete job same surface area its.			
Qty vide item no 7 marked as "A"=350 Sqm		Sqm	350	381.8 133630
9	Providing and laying of 25mm thick semi-dense Bitumin concrete using material satisfying and gradation set on as specification with 5% binder content by weight of total mix Bitumin 80/ @ 2.88kgs /SM with aid of hot mix plant and power finisher including lolling with 8-10 tonne capacity road roller to achieve requires compact and density with Bitumin 80/100 including rolling finishing complete including all carriages materials involved complete job.			
Qty vide item no 8 marked as "B" 367.55Sqm		Sqm	367.55	618.8 227440
10	Providing and laying of 6mm thick seal coat premix fine aggregate passing 2.36mm and retained as 180ml sieve with Bitumin 128 kgs of Bitumin of grade 80 to 100 Bitumin per cm fine aggregate per 8768kgs of Bituminous /SM 0.60cm of fine aggregate per 100 SM of road surface including rolling and finishing complete including all carriage Materials complete job.			
Qty vide item No 7 = 367.55 Sqm		Sqm	367.55	78.15 28724
11	Carriage of Material from source to site of work by mechanical transport.			
(a)	Stone aggregate (63-45mm) from avg as lead 4km			
Qty vide item No 3= m		Cum	110.26	179.35 19775
(b)	Screening from average lead of 4 km			
Qty vide item No 5		Cum	21.5	165.00 3548
(c)	Maroom from average lead of 4km			
Qty vide item No 6		Cum	8.83	165.00 1457
Total				613799
Add 15% above on all items				92069.85
Total				705868.9

Cost of 1 M= Rs 7059
Cost for such 100m = Rs 7.06- Lacs

6.13 lacs.

Junior Engineer/Asst. Engineer

Asstt. Ex. Engineer,
PHE Div. Tangmarg

Executive Engineer,
FBI Div Tangmarg

Detailed estimate for the construction of Chowkidar Quarter.

No	Particulars	Unit	No.	Length	Width	Height	Qty	Rate	Amount
1	Earthwork in excavation for trenches for all kinds of soil.	m ³	2	7.400	0.600	0.860	7.637		
			3	2.750	0.600	0.860	4.257		
			1	2.280	0.600	0.860	1.176		
			2	1.220	0.600	0.860	1.259		
			1	5.200	0.600	0.860	2.683		
	Verandah		1	8.000	7.310	0.600	35.088		
	Platform cutting								
							52.101	539.35	28100.415
2	Filling of excavated earth (excluding Rock). vide item 1	m ³					15.630		
							15.630	198.70	3105.712
3	Providing & Laying of Stone Soling.	m ³	2	7.400	0.600	0.150	1.332		
			3	2.750	0.600	0.150	0.743		
			1	2.280	0.600	0.150	0.205		
			2	1.220	0.600	0.150	0.220		
			1	5.200	0.600	0.150	0.468		
							2.967	600	1780.380
4	Providing & Laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work upto plinth level 1:4:8.	m ³	2	7.400	0.600	0.100	0.888		
			3	2.750	0.600	0.100	0.495		
			1	2.280	0.600	0.100	0.137		
			2	1.220	0.600	0.100	0.146		
			1	5.200	0.600	0.100	0.312		
							1.978	4419.85	8743.347
5	Providing & Laying in position plain cement concrete of specified grade excluding the cost of centering and shuttering, finishing and reinforcement. All works upto plinth level in 1:2:4 mix (1 Cement : 2 Sand : 4 Graded stone aggregates)	m ³	Under ground						
			2	7.400	0.600	0.600	5.328		
			3	2.750	0.600	0.600	2.970		
			1	2.280	0.600	0.600	0.821		
			2	1.220	0.600	0.600	0.878		
			Above ground						
			2	7.400	0.450	0.600	3.996		
			3	2.750	0.450	0.600	2.228		
			1	2.280	0.450	0.600	0.616		
			2	1.220	0.450	0.600	0.659		
			1	5.200	0.450	0.600	1.404		
							18.899	5877.45	111078.515
6	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttress, plinth and string, cures, columns, fillets etc upto floor v-level excluding cost of centering, shuttering, and reinforcement in 1:1.5:3 mix (1 Cement : 1.5 Sand : 3 Graded stone aggregates) M20	m ³	Lintel Band						
			2	7.40	0.23	0.300	1.021		
			1	3.50	0.23	0.300	0.242		
			1	6.200	0.23	0.300	0.428		
			1	1.830	0.23	0.300	0.126		
							1.817	6344.25	11526.043
			Slab						
			1	6.780	6.200	0.125	5.255	8953.95	47048.530
			Kitchen counter						
			1	3.000	0.600	0.100	0.180	8953.95	1611.711

7	Boulder filling in rooms including handpacking and laying etc. complete	m ³	1	3.650	3.000	0.600	6.570		
			1	2.430	3.000	0.600	4.374		
			1	1.830	1.830	0.600	2.009		
			1	1.520	3.000	0.600	2.736	TR	
						LSM	15.689	650.00	10198.07
8	Reinforcement for RCC works including straightening , cutting, bending and placing in position all complete (TMT). @ 0.8 Q/m ³	Kg				7.251	5.801		
							580.10	79.25	45973.05
9	Form work: Centering and Shuttering including strutting, propping etc and removal of same for. a) Foundation	m ²	2	6.700		0.600	8.040		
			2	4.110		0.600	4.932		
			4	2.890		0.600	6.936		
			1	2.280		0.600	1.368		
			1	1.980		0.600	1.188		
			2	2.130		0.600	2.556		
			2	1.980		0.600	2.376		
							36.168	262.30	9486.87
	Verandah	m ²	2	5.180		0.600	6.216		
	b) Slab		1	3.650		3.000	10.950		
			1	2.430		3.000	7.290		
			1	1.830		1.830	3.349		
			1	1.830		4.420	8.089		
	c) Kitchen counter		1	3.000		0.600	1.800		
							37.694	635.600	23957.99
10	Brick work with common burnt clay F.P.S.(non-modular) bricks of class designation 75 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 fine sand)	m ³	2	6.780	0.230	2.750	8.577		
			3	3.040	0.230	2.750	5.768		
			1	2.280	0.230	2.750	1.442		
			2	1.830	0.230	2.750	2.315		
			Brick Column						
			1	0.350	0.350	2.750	0.337		
			Extra for kitchen counter						
			5	0.600	0.230	0.600	0.414		
							18.853		
			Deductions						
			3	0.910	0.230	2.130	1.337		
			4	1.520	0.230	1.520	2.126		
			1	0.910	0.230	1.210	0.253		
							3.716		
							15.137	6183.75	93602.04
11	Extra for brick work in superstructure above plinth level upto floor V level. (By manual means)	m ³					15.137	1323.65	20035.79
12	Cement concrete flooring (1:2:4) mix 50mm thick in floors.	m ²	1	3.650	3.000		10.950		
			1	2.430	3.000		7.290		
			1	1.830	1.830		3.349		
			1	1.520	3.000		4.560		
							26.149	505.00	13205.19

Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or with dash fasteners shall be paid for separately): 2nd class kailwood	m3	Truss T1 (4 trusses)						
		No	Length	Area				
		1	8.020	0.013		0.105		
		2	4.720	0.011		0.106		
		1	2.440	0.009		0.023		
		2	1.220	0.009		0.023		
		2	2.335	0.009		0.044		
		16	7.400	0.008		0.888		
		128	0.150	0.008		0.144		
						0.445		
Bottom Chord (3"x 7")						2.67	92065.4	245628.05
Principle rafter (3"x 6")								
Posts (3"x 5")								
Purlin (3"x 4")								
Cleats (40x40x6)								
4 Providing corrugated G.S sheets roofing fixed with ploymer coatd J or L hooks, nuts & bolts 8mm dia with bitumen and G.I limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto a pitch of 60 degrees) excluding the cost of purlins, rafters and trusses.	m ²							
0.63 mm thick with zinc coating not less than 275gm/m ²		2	7.400	4.900	1.000	72.520		
Chajja		2	8.000	2.440	0.500	19.520		
		2	7.400	0.600		8.880		
		2	9.750	0.600		11.700		
						112.620	830.25	93502.76
15 Providing ridges or hips width 60mm overall of G.S sheets fixed with polymer coated J or L hooks nols and nuts 8mm dia G.I Limpet and bitumen washers complete.	Rm							
0.63 mm thick with zinc coating not less than 275gm/m ²			7.40			7.400	626.700	4637.58
16 Providing & fixing of plain Eaves boarding of popular wood 40mm thick & 300mm wide.	Rm							
			34.30			34.300	700.000	24010.00

17	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or with dash fasteners shall be paid for separately):	m3							
	Second class kail wood								
	Doors (3no)		3	6.00	0.075	0.125	0.169		
	Window (4no)		4	9.40	0.075	0.125	0.353		
	Ventilator (1no)		1	6.00	0.075	0.125	0.056		
							0.578	92065.4	53167.74
18	Providing & fixing panelled or panelled & glazed shutters for doors, windows & clerestory windows including ISI marked MS pressed Butt hinges bright finished of required size with necessary screws excluding panelling which will be paid separately, all complete as per direction of Incharge In-charge.	m2							
	2nd class kail wood 35m thick								
	Doors (3no)		6	3		7.00	163.800	3300.00	540540.00
19	Providing & fixing glazed shutters for doors, windows & clerestory windows using 10 kg/sqm (4mm thick) float glass panes including ISI marked MS pressed Butt hinges bright finished of required size with necessary screws.	m2							
	2nd class kail wood 35m thick								
	Window (4no)		8	1.520		1.520	9.242		
	Ventilator (1no)		2	0.910		1.210	1.101		
							10.343	3081.90	31875.17
20	Providing & fixing 35mm thick wire gauze shutters using galvanised Ms wire gauze of average width for aperture 1.4mm in both directions with wire of Dia 0.63mm for doors, windows & clerestory window with hinges and necessary screws.	m2							
	2nd class kail wood.								
	Window (4no)		8	1.520		1.520	9.242		
	Ventilator (1no)		2	0.910		1.210	1.101		
							10.343	2966.35	30680.07

21	Providing 40 x 5mm flat Iron hold fasts 40 cm long including fixing to frame with 10mm dia bolts, nuts and wooden plugs and embeddings in cement concrete block 30 x 10 x 15 cm (1:3:6) mix (20mm nominal size).	No	32				32.000	113.80	3641.60
22	Providing & fixing aluminium sliding door bolt ISI marked annodized (Anodic coating not less than grade AC 10 as per IS-1868) transparent or dyed to required colour or shade with nuts and screws etc. complete	No							
	300' x 16		3				3.000	125.10	375.30
24	Providing & fixing aluminium tower bolt ISI marked annodized (Anodic coating not less than grade AC 10 as per IS-1868) transparent or dyed to required colour or shade with nuts and screws etc. complete	No							
	150x10		6				6.000	63.90	383.40
	100x10		20				20.000	47.60	952.00
25	Providing & fixing aluminium handles ISI marked annodized (Anodic coating not less than grade AC 10 as per IS-1868) transparent or dyed to required colour or shade with nuts and screws etc. complete	No							
	125mm		3				3.000	54.25	162.75
	100mm		10				10.000	48.45	484.50
26	Providing & fixing aluminium hanging floor door stopper ISI marked annodized (Anodic coating not less than grade AC 10 as per IS-1868) transparent or dyed to required colour or shade with nuts and screws etc. complete	No							
	Single Rubber stopper		3				3.000	35.20	105.60

27	15mm thick cement plaster finished without floating coat of neat cement of mix 1: 6 mix (1 cement : 6 fine Sand).	m ²	Outer side					
			2	6.780		2.750	37.290	
			2	3.500		2.750	19.250	
			2	2.050		2.750	11.275	
			1	2.280		2.750	6.270	
			Inner side					
			2	6.000		2.750	33.000	
			4	3.050		2.750	33.550	
			3	1.830		2.750	15.098	
							155.733	
			Deductions					
			3	0.910		2.130	5.815	
			4	1.520		1.520	9.242	
			1	0.910		1.210	1.101	
							16.158	
			Add for sill soffit & Jams					
			3	6.080		0.230	4.195	
			4	6.080		0.230	5.594	
			1	4.240		0.230	0.975	
							150.339	163.65 24602.96
28	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturers specifications including appropriate priming coat preparation of surfaces, etc complete.	m ²						
			Vide item no 27				150.339	128.95 19386.20
29	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth and curing complete	m ²						
				27.500		0.900	24.750	496.65 12292.09

30	Providing & fixing MS grill of required pattern in frames of windows etc. with Ms flat, square or round bars etc. including priming coat with approved steel primer. All complete.	Kg							
						300.00	120	36000.00	
31	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturers) of 1st quality conforming to IS: 15622 of approved make, laid on 20 mm thick bed of cement mortar 1: 4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete. In all colours, shades, except White, Ivory, Fume Red Brown	m ²	Bath Room						
			2	1.830		2.750	10.065		
			2	1.830		2.750	10.065		
			1	1.830		1.830	3.349		
						23.479	1115.80	26197.76	
32	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.	no							
	Orissa pattern W.C Pan of size 580x440 mm		1				1.000	3690.25	3690.25
33	Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:	no							
	Kitchen sink with drain board 510x1040mm bowl depth 250mm		1				1.000	7259.75	7259.75

34	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1 :2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design.	no						
	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x61 Omm. internal dimensions total weight of cover and frame to be not less than 38		2			2.000	8084.30	16168.60
35	Providing & fixing PVC soil waste and vent pipe.	Rm						
	100mm		30		LSM	30.000	250	7500.00
	75mm		20		LSM	20.000	200	4000.00
36	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.	no						
	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms.		1			1.000	802.7	802.70

37	Providing & fixing GI pipes complete with GI fittings and clamps including cutting and making good the walls etc. (Internal works).	Rm							
	15mm dia nominal bore. (light weight)		20				20.000	278.9	5578.00
	20mm dia nominal bore. (light weight)		10				10.000	336.2	3362.00
38	Providing & fixing GI pipes complete with GI fittings including trenching and refilling etc. (External works).	Rm							
	15mm dia nominal bore. (light weight)		35				35.000	133.75	4681.25
39	Providing & fixing on Terrace (at all floor levels) polyethelene water storage tank ISI 12701 marked indicating the BIS license no. with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but without fittings and the base support for tank (Syntex,Electroplast,Star,Lotus or equivalent having valid ISI license.	Litre	500				500.000	6.7	3350.00
40	Providing & fixing CP brass Bib cock of approved quality confirming to Is-8931.	No							
	15mm dia nominal bore.		6				6.000	318.85	1913.10
41	Providing & fixing CP brass angle valve for basin mixer and gyser points of approved make confirming to Is-8931.	No							
	15mm dia nominal bore.		4				4.000	536.1	2144.40
42	Providing & fixing of 50 litre capacity gyser of approved quality (venus make or equivalent).	No	1			LSM	1.000	19000	19000.00
43	Providing & fixing Lighting points in 1.5 sqmm multistrand PVC wire to be laid in conduits including providing & fixing of 5-A switches complete.	No	20			LSM	20.000	1200	24000.00

Providing & fixing heating points in 2.5 sqmm multistrand PVC copper wire to be laid in conduits including providing & fixing of 16-A switches complete.	No	3			LSM	3.000	1500	4500.00
Providing & fixing of 1200mm sweep ceiling fans complete with accessories including dimmer of ISI mark complete.	No	2			LSM	2.000	3500	7000.00
Providing & fixing of Exhaust fan in 1.5 sqmm stand wire to be laid in conduits complete.	No	2			LSM	2.000	2500	5000.00
Providing & fixing of 16-A MCB of Indocap complete.	No	5			LSM	5.000	600	3000.00
Providing & fixing MCB distribution box 10 way main double door system.	No	1			LSM	1.000	5500	5500.00
Carriage of material for Cement for average length of 35 Km by Mechanical Transport. Including loading unloading & Stacking.	MT		Qty	Q/m3	Mt	T.Qty		
Vide item no.4								
Vide item no.5								
Vide item no.6								
Vide item no.10 B/Work			1.978	1.700	0.336			
Vide item no.11 B/Work			18.899	4.000	7.560			
Vide item no.27 plaster			7.251	3.200	2.320			
Steel Vide item no.8			15.137	0.625	0.946			
			15.137	0.625	0.946			
			150.339	4.300	0.646			
		580.1	5.801	0.580				
					13.335	13.335	162.100	2161.603
Carriage of material for Sand and Aggregates for average length of 35 Km by Mechanical Transport. Including loading unloading & Stacking.	m ³		Qty					
Vide item no.4								
Vide item no.5								
Vide item no.6								
			1.978					
Vide item no.10 B/Work			18.899					
Vide item no.27			7.251					
Stone soling			28.129	at rate of 135 %		37.974	182.340	6924.101
			15.137	500.000	7568	7.57	1393.86	10549.274
			150.339	0.018	2.706	2.7061	182.340	493.430
Vide item no.3	m ³		2.967			2.967	214.55	636.634
TOTAL								1727294.3
Add 10% above on all items except item no.7,42,43,44,45,46,47 and 48								164909.6
Add 15% above on all items except item no.49 & 50								3019.3
GRAND TOTAL AMOUNT								1895223.2

Junior Engineer / Asstt. Engineer

Asstt. Ex. Engineer
PHE Sub. Div. Tangmarg

Executive Engineer
FB Div. Tangmarg

Source Certificate

Scheme : Water Supply Scheme Wailoo Kralpora
Source: : Ferozpora Nallah
1 The source of the scheme is free from any dispute.
2 Discharge will cater the need of the designed population proposed to be covered under the scheme.
3 The scheme has been properly investigated proposals are viable to techno economic consideration.

Junior Engineer/ Assistant Engineer

Assistant Executive Engineer
PHE Div. Tangmarg

Executive Engineer
FBI Div. Tangmarg

Superintending Engineer
Hydraulic Circle Baramullah / Bandipora
HQ Sopore

Feasibility Certificate

Scheme : Water Supply Scheme Wailoo Kralpora.
It is certified that the detailed project report for Water supply scheme Wailoo Kralpora has been prepared after determining the technical feasibility. It is further certified that the scheme has strong perennial source and is sustainable in the long run subject to geological changes.

Junior Engineer/ Assistant Engineer

Assistant Executive Engineer
PHE Div. Tangmarg

Executive Engineer
FBI Div. Tangmarg

Superintending Engineer
Hydraulic Circle Baramullah / Bandipora
HQ Sopore

Non-Duplacy Certificate

Scheme : Water Supply Scheme Wailoo Kralpora
Certiifed that the villages / Habitations proposed to be covered under water supply scheme Wailoo Kralpora do not figure in the scope of any other ongoing scheme / project.

Junior Engineer/ Assistant Engineer

Assistant Executive Engineer
PHE Div. Tangmarg

Executive Engineer
FBI Div. Tangmarg

Superintending Engineer
Hydraulic Circle Baramullah / Bandipora
HQ Sopore