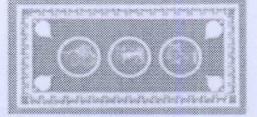




"විශිෂ්ට රාජ්‍ය සේවාවක් සඳහා ජප කැපවෙමු."

ප්‍රධාන ලේකම් කාර්යාලය - බස්නාහිර පළාත
பிரதம செயலாளர் அலுவலகம் - மேல் மாகாணம்
OFFICE OF THE CHIEF SECRETARY - WESTERN PROVINCE



204, ඩෙන්සිල් කොබ්බෑකඩුව මාවත, බත්තරමුල්ල.
204, டென்சிஸ் கொப்பேகடுவ மாவத்தை, பத்தரமுல்ல.
204, Denzil Kobbekaduwa Mawatha, Battaramulla.

ප්‍රධාන ලේකම් / இரதம செயலாளர் } 011-2092599
011-2092601
011-2093000
Chief Secretary } 011-2092601
011-2093000
Chief Secretary } 011-2093000
011-2093000

මගේ අංකය. / எனது இல. } CSWP/ENG-ADM/8-24/FI/1-(A) } 2018.09.01
My No. } Your No. } Date.

පළාත් ගොඩනැගිලි අධ්‍යක්ෂ/ පළාත් වාරිමාර්ග අධ්‍යක්ෂ,
සහපති, පළාත්බද මාර්ග සංවර්ධන අධිකාරිය(බ.ප.),
පළාත් පාලන කොමසාරිස් සහ සියලුම පළාත් පාලන ආයතන ලේකම්වරුන්,
බස්නාහිර පළාතේ සියලුම ප්‍රාදේශීය ලේකම්වරුන්,
සියලුම ප්‍රාදේශීය ඉංජිනේරුවරුන්

සුළු වාරිමාර්ග ගාස්තු උපලේඛණය -2018-2019

2018.09.01 දින සිට නැවත දැනුම් දෙන තුරු ඉදිකිරීම් ඇස්තමේන්තු පිළියෙල කර ගැනීමට උපයෝගී කරගත යුතු සුළු වාරිමාර්ග ගාස්තු උපලේඛනයේ පිටපතක් මේ සමඟ එවමි.

02. මෙම රේට් මිල ගණන් පිළියෙල කිරීමේදී එකතු කළ අගය මත බදු (VAT) ,රේට් මිල ගණන් වලට අඩංගු කර නැත.ඇස්තමේන්තු පිළියෙල කිරීමේදී එකතු කළ අගය මත බදු,ප්‍රමාණ බිල්පතේ මුළු එකතුවට අමතර මුදලක් වශයෙන් එකතු කළ යුතුය.


03. ලේඛනයේ සඳහන් රේට් මිල ගණන් සකසා ඇත්තේ බස්නාහිර පළාතේ දිස්ත්‍රික් තුනම ආවරණය වන පරිදි හා විවෘත වෙළඳපලේ පවතින මූලික ද්‍රව්‍ය මිල ගණන් වල සාමාන්‍ය අගයන් පදනම් කර ගැනීමෙනි.කෙසේ වුවද,මෙහි සඳහන් ද්‍රව්‍ය වල මිල හා ඔබගේ බල ප්‍රදේශය තුල පවතින මිල ගණන් අතර සැලකිය යුතු වෙනස්කම් තිබෙනම් ,ඒ පිළිබඳව මා වෙත දැන්වීමට පියවර ගන්න.එවැනි විශේෂ අවස්ථාවකදී යම් බල ප්‍රදේශයකට පමණක් සීමාවන පරිදි මිල ගණන් සංශෝධනය කිරීමට පියවර ගත හැක.

04. ඇස්තමේන්තු පිළියෙල කිරීමේදී භාවිතා කිරීම සඳහා මෙම ලේඛනයේ පිටපත් අදාළ කාර්මික නිලධාරීන් වෙත කරුණාකර නිකුත් කරන්න.

05. මෙම රේට් මිල ගණන් පිළියෙල කර ඇත්තේ සුළු වාරිමාර්ගද්‍රව්‍ය වල ගුණාත්මක බව (material quality) සහ ඉදිකිරීම් නිමාව (Workmanship) ශ්‍රී ලංකා (SLS) ,බ්‍රිතාන්‍ය (BS) සහ (A.S.T.M) ප්‍රමිතීන්ට අනුකූලව සහ ICTAD පරිවිතරSCA/3/1,SCA/3/2,SCA/3/3, SCA/4(VOL-

නියෝජ්‍ය ප්‍රධාන ලේකම් இரதம செயலாளர் Deputy Chief Secretary	පාලන நிர்வாகம் Administration Tel: 011-2092606	පිරිස් හා පුහුණු ஆளணி மற்றும் பயிற்சி Personnel & Training Tel: 011-2092631	මුදල நீத Finance Tel: 011-2092640	සැලසුම් திட்டமிடல் Planning Tel: 011-2092532	ඉංජිනේරු பொறியியல் Engineering Tel: 011-2092501	ප්‍රධාන අභ්‍යන්තර විලේඛක பிரதம உள்ளகக் கணக்காய்வாளர் Chief Internal Auditor Tel: 011-2092628
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I),SCA/4(VOL - II),SCA/5,SCA/8 යන ප්‍රකාශනවල සඳහන් ගුණාංගයන් සපුරාලන බව උපකල්පනය කරමිනි. ඒ අනුව මෙම මිල ගණන් උපයෝගී කර ගැනීමේදී ඉහත ප්‍රකාශනවල අඩංගු ප්‍රමිතීන්ට අනුකූලව ඉදිකිරීම් සිදුවිය යුතු බව අවධාරණය කරනු කැමැත්තෙමි.

W.M. - 12-63 
ඩබ්.එම්.ඩී.එන්.රණසිංහ,

නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු),

බස්නාහිර පළාත

පිටපත්:

1. ප්‍රධාන ලේකම් (බ.ප.)
2. බස්නාහිර පළාතේ සියලුම අමාත්‍යාංශ ලේකම්වරුන්
3. අධ්‍යක්ෂ (අභ්‍යන්තර විගණන)
4. විගණන අධිකාරී

IRRIGATION SCHEDULE OF RATES - 2018

ALL RATES ARE COMMON TO
COLOMBO, GAMPALA & KALUTARA
DISTRICTS



(Rates effective from 01.09.2018 until further notice.)

PROVINCIAL IRRIGATION
DEPARTMENT

WESTERN - PROVINCE

IRRIGATION SCHEDULE OF RATES

General Notes

- 1 This Irrigation Schedule of Rates (ISR) has effected date from 2018.09.01 until further notice, and this rates are intended to be adopted in pricing an Engineering estimate for the rehabilitation, repairing, improvement or construction of irrigation projects.
- 2 This ISR has been prepared based on work normally adopted for Irrigation works with eight hour labour input. Over head and profit components are included 20% . Provision should be made seperately in the estimate and should allow for maximum up to 10% of the BOQ total as contingencies.
- 3 Any material not conforming to Sri Lanka Standard Specification and /or workmanship not conforming to the (SCA/3/1) specifications for Irrigation and Land Drainage are to be rejected.
- 4 Unit rates and extension shall be given in Sri Lanka rupees to maximum of two significant places of decimals.
- 5 The item description of the BOQ shall confirm to that in the relevant items as appearing in this schedule, When preparing this BOQ base on these rates so as to avoid any ambiguity.
- 6 The rates given in this ISR valid for works carried out as per specification for Irrigation and Land Drainage issued by ICTAD publication no. SCA/3/1.
- 7 When it is necessary to convert from imperial to metric unit apply conversion factor as follows.

To convert rate per	To rate per	Multiply the present
Cube	m ³	0.353
Square	m ²	0.108
Sq.ft.	m ²	10.763
L.ft.	m	3.280
Cwt.	Kg.	0.019

8 Units

convert Lit. to gal. multiply by 0.222
convert Miles to Km. multiply by 1.609
convert Kilo to pounds multiply by 2.205
convert hundred weights to Kg. multiply by 50.802
convert feet to metres by multiply 0.3048
convert acres to hectares by multiply 0.4046
convert square miles to hectares multiply by 258.99

9 Useful Data for steel as follows.

(i) Steel Bars

Dia. mm	Area Sq.mm	Normal weight (Kg/m.)	Minimum bend Radius (mm)
6	28	0.222	
8	50.3	0.395	
10	78.5	0.617	28
12	113	0.888	44
16	201	1.580	70
18	254	2.000	70
20	314	2.470	88
22	380	2.980	88
25	491	3.850	140
28	615	4.830	178
32	804	6.310	178
36	1018	7.990	224
40	1257	9.860	224

(ii) Angle Iron

Size (mm)	Sectional Area Sq.cm	weight (Kg/m.)
25x25x4	1.85	1.45
35x35x5	3.28	2.57
50x50x6	5.69	4.47
65x65x6	7.53	5.91
75x75x6	8.73	6.85

(iii) Flat Iron

Size (mm)	Thickness (mm)	weight (Kg/m.)
20x5	5	0.98
50x6	6	2.36

10 **Abbreviations**

Abbreviations used in this BOQ denotes the following.

Ft	Feet	c/c	Centre to centre
Lft.	Linear Feet	@	Each
		Gr.	Grade
Ft ²	Square Feet	Approx. -	Approximately
Sqft.	Square Feet	Thk.	Thick
Sqr.	Squares		
		T.S.	Tor steel
Ft ³	Cubic Feet	Y/T	Tor steel
Cuft.	Cubic feet	T	Tor steel
Cu.	Cube	M.S.	Mild steel
		R	Mild steel
m	metre		

Lm.	Linear metre	G.L.	Ground Level
m ²	Square metre	L.day	Labour day
Sqm.	Square metre	S.day	Semi skill day
		Un. day	Un skill Labour day
m ³	Cubic metre		
Cm.	Cubic metre	C.I.	Cast Iron
		W.I.	Wrought Iron
mm.	milli metre	F/W	Form work
cm.	Centi metre	R/F	Reinforcement
Kg.	Kilogramme	Rs.	Rupees (Sri Lankan)
h.	hour	cts.	Cents (Sri Lankan)
BOQ	Bill of Quantities	mr.	Motar
Ele.	Elevation	ct.mr.	Cement motar
No.	Number (to indicate as item,page)	T/T	Tractor Tailor
Nr.	Number (to indicate as quantity)	Qty.	Quantity
RCC	Reinforced Cement Concrete	L	Length
G.W.L.	Ground water level	B	Breadth
Wk.	Week	H	Height
Mon.	Month	W	width
dia.	Diameter	H	Height
Mon.	Month	T	Top Layer
dia.	Diameter	B	Bottom Layer

End.

PRICE LIST FOR ISR - 2018			
ITEM NO.	DESCRIPTION	UNIT	PRICE (excluding VAT)
	<u>MASONRY</u>		
1	Cement - 50kg bags of "INSEE Sanstha", "INSEE Mahaweli Marine", "Ambuja", "L & T", "Nippon", "Ultra Tech" & "Singhe" etc.,(O.P.C. complying to S.L.S.107) (including around 16km transport with loading & unloading)	Nr.	818.10
2	Rubble 6" x 9" (including around 16 km transport with loading & unloading)	Cube	5000.00
3	Washed sand or river Sand (including around 20 km transport with loading & unloading)	Cube	13473.89
4	Chips 1/2" (including around 16 km transport with loading & unloading)	Cube	7750.00
5	Metal 3/4" (including around 16 km transport with loading & unloading)	Cube	7100.00
6	Metal 1" (including around 16 km transport with loading & unloading)	Cube	7500.00
7	Metal 1 1/2" (including around 16 km transport with loading & unloading)	Cube	7000.00
8	Quarry Dust (including around 16 km transport with loading & unloading)	Cube	7500.00
9	Aggregate Base Course (ABC)- graded 37.5 mm. (excluding transport)	Cube	5100.00
10	Drinking Water	1Lt.	0.17
	<u>STEEL</u>		
11	Tor steel - (including transport)	kg.	121.00
12	Mild steel - (including transport)	kg.	121.00
13	Binding wire	kg.	147.75
14	25 x 25 x 5mm Angle iron	L.ft	60.00
15	38 x 38 x 6mm Angle iron	L.ft	128.00
16	50 x 50 x 6mm Angle iron	L.ft	160.00
17	65 x 65 x 6mm Angle iron	L.ft	206.00
18	75 x 75 x 6mm Angle iron	L.ft	256.00
19	100 x 50 x 6mm Channel iron	L.ft	361.00
20	125 x 65 x 6mm Channel iron	L.ft	480.00
21	150 x 75 x 6mm Channel iron	L.ft	618.00
22	Steel Wire nails 1"	kg.	134.50
23	Steel Wire nails 1 1/2"	kg.	132.30
24	Steel Wire nails 2"	kg.	132.30
25	Steel Wire nails 3"	kg.	127.90
26	Steel Wire nails 5"	kg.	127.90
27	10mm dia. M.S bars	L.ft	25.00
28	5mm thick M.S.Plate	Sqft	476.00
29	10mm thick M.S. Plate	Sqft	883.00
30	12mm thick M.S. Plate	Sqft	1073.00
31	1" dia. Steel chain	L.ft	250.00
32	2" x 1/4" Flat iron	L.ft	80.00
33	20 x 6mm Flat iron	L.ft	27.00
34	Medium Duty GI Pipe - 1"dia. X 3.2mm. thk.	L.ft	165.00

35	Medium Duty GI Pipe - 2"dia. X 3.6mm. thk.	L.ft	332.00
36	Medium Duty GI Pipe - 3"dia. X 4mm. thk.	L.ft	548.00
37	Heavy Duty G.I. Pipe - 1"dia x 4 mm.thk.	L.ft	197.00
38	Heavy Duty G.I. Pipe - 1 1/2"dia x 4mm. thk.	L.ft	297.00
39	Heavy Duty G.I. Pipe - 2"dia x 4.5 mm.thk.	L.ft	398.00
40	Heavy Duty G.I. Pipe - 2 1/2"dia x 4.5mm.thk.	L.ft	526.00
41	Box iron (3/4" x 3/4") 2mm. thk.	L.ft	52.00
42	Pop rivert	Nr.	2.00
43	1/4" dia. 2 1/2" long nut & bolt	Nr.	30.00
44	G.I. Pipe - 3 "dia.x 4.8mm Heavy duty	L.ft	686.00
	<u>HUME PIPE (R.C.C)</u>		
45	04" Dia. X 8'-0"	Nr.	3000.00
46	06" Dia. X 8'-0"	Nr.	3300.00
	06" Dia. X 4'-0"	Nr.	1650.00
47	09" Dia. X 8'-0"	Nr.	3900.00
	09" Dia. X 4'-0"	Nr.	1950.00
48	12" Dia. X 8'-0"	Nr.	4500.00
	12" Dia. X 4'-0"	Nr.	2620.00
49	15" Dia. X 8'-0"	Nr.	4950.00
	15" Dia. X 4'-0"	Nr.	2475.00
50	18" Dia. X 8'-0"	Nr.	5600.00
	18" Dia. X 4'-0"	Nr.	2950.00
51	24" Dia. X 8'-0"	Nr.	8100.00
	24" Dia. X 4'-0"	Nr.	4200.00
52	30" Dia. X 8'-0"	Nr.	12400.00
	30" Dia. X 4'-0"	Nr.	8350.00
53	36" Dia. X 8'-0"	Nr.	16100.00
	36" Dia. X 4'-0"	Nr.	8350.00
54	42" Dia. X 8'-0"	Nr.	22400.00
	42" Dia. X 4'-0"	Nr.	10500.00
55	48" Dia. X 8'-0"	Nr.	27800.00
	48" Dia. X 4'-0"	Nr.	14200.00
	<u>HUME PIPE COLLARS (R.C.C)</u>		
56	06" Dia.	Nr.	420.00
57	09" Dia.	Nr.	420.00
58	12" Dia.	Nr.	450.00
59	15" Dia.	Nr.	510.00
60	18" Dia.	Nr.	600.00
61	24" Dia.	Nr.	780.00
62	30" Dia.	Nr.	870.00
63	36" Dia.	Nr.	1050.00
64	42" Dia.	Nr.	1230.00
65	48" Dia.	Nr.	1770.00
	<u>Timber</u>		

66	Specified timber "Kumbuk"	Cuft	7744.16
67	Specified timber " Naa, Mee"	Cuft	4800.00
68	Plywood ordinary 12mm thick (8'x4')	Sqft	106.00
69	Plywood ordinary 15mm thick (8'x4')	Sqft	107.00
70	Rubber planks - 3/4" thick	Sqft	42.00
71	Rubber planks - 1" thick	Sqft	60.00
72	Rubber planks - 1 1/2" thick	Sqft	50.00
73	Timber 2" x 1" Class II - for shuttering	L.ft	18.00
74	Timber 2" x 2" Class II - for shuttering	L.ft	40.00
75	Timber 4" x 2" Class II - for shuttering	L.ft	90.00
	<u>MISCELLANEOUS</u>		
76	Bitumen	1Lt.	565.00
77	Brass padlock (2")	Nr.	565.00
78	PVC Pipe 4" dia. (type 250)	L.ft	99.00
79	Polysack Bags (filling 65kg capacity) with transport	Nr.	30.00
80	Anticorrosive paint	1Lt.	652.00
81	Enamel paint	1Lt.	856.00
82	Wood preservative	1Lt.	364.50
83	Turf	Sqft	5.50
84	Digital print	Sqft	85.00
85	Paint Brush 1" -Jat	Nr.	191.30
86	Paint Brush 1 1/2" -Jat	Nr.	239.13
87	Paint Brush 2" -Jat	Nr.	369.57
88	Paint Brush 3" -Jat	Nr.	478.00
89	Paint Brush 4" -Jat	Nr.	687.00
90	Paint Brush 6" -Jat	Nr.	861.00
91	Sand paper	Nr.	59.00
92	Grease	Kg.	771.00
	<u>PLANT</u>		
93	Water pump (with necessary items)	Per Day	2800.00
94	Tractor & Tailer	Per Day	5500.00
95	Hydrolic Backhoe excavator (1Cu.yd) (output 102.2Cubes/ 8 hours)	Per Hour	3500.00
96	Hydrolic Backhoe excavator (1Cu.yd) (output 102.2Cubes/ 8 hours) with barge PC 100-PC 40	Per Hour	5000.00
97	Concrete mixer with operator & fuel /(8 hour day)	Per Day	5000.00
97.1	Vibrator / (8 hour day)	Per Day	3500.00
98	Welding Plant / (8 hour day)	Per Day	1500.00
99	Vibrating roller (1/2-1 ton)with fuel.	Per Hour	400.00
	<u>VEHICLE TRANSPORT</u>		
100	Low bed tailer (first 15km)	Each	11500.00
101	Additional 1km	Each	260.00
	<u>LABOUR</u>		
102	Skill Labour - (Carpenter, mason, barbender etc.)/ 8 hours	Per Day	2,200.00
103	Semi skill Labour / 8 hours	Per Day	1,950.00
104	Unskill Labour / 8 hours	Per Day	1,800.00

	<u>CAST IRON SLUICE GATES & COMPONENTS</u>		
105	3" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	17700.00
106	4" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	17700.00
107	6" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	22200.00
108	9" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	33000.00
109	12" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	38000.00
110	15" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	55500.00
111	18" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	64500.00
112	24" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	89000.00
113	30" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	150000.00
114	36" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	186000.00
115	40" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	267000.00
	<u>CAST IRON SLUICE GATE SPARES</u>		
116	C.I. Housing & Base Plate - 3/4"	Nr.	3300.00
117	C.I. Housing & Base Plate - 1"	Nr.	3300.00
118	C.I. Housing & Base Plate - 1 1/4"	Nr.	3300.00
119	C.I. Housing & Base Plate - 1 1/2"	Nr.	4200.00
120	C.I. Housing & Base Plate - 2"	Nr.	5100.00
121	C.I. Housing & Base Plate - 2 1/2"	Nr.	6000.00
122	Pin Type L Device (without padlock) - 3/4"	Nr.	600.00
123	Pin Type L Device (without padlock) - 1"	Nr.	600.00
124	Pin Type L Device (without padlock) - 1 1/4"	Nr.	600.00
125	Pin Type L Device (without padlock) - 1 1/2"	Nr.	708.00
126	Pin Type L Device (without padlock) - 2"	Nr.	870.00
127	Pin Type L Device (without padlock) - 2 1/2"	Nr.	1320.00
128	Plate Type L Device (without padlock) - 3/4"	Nr.	600.00
129	Plate Type L Device (without padlock) - 1"	Nr.	1500.00
130	Plate Type L Device (without padlock) - 1 1/4"	Nr.	1500.00
131	Plate Type L Device (without padlock) - 1 1/2"	Nr.	1950.00
132	Plate Type L Device (without padlock) - 2"	Nr.	2400.00
133	Plate Type L Device (without padlock) - 2 1/2"	Nr.	2300.00
134	Brass Nut 04 T.P.I- 3/4"	Nr.	4200.00
135	Brass Nut 04 T.P.I - 1"	Nr.	5370.00
136	Brass Nut 04 T.P.I- 1 1/4"	Nr.	5370.00
137	Brass Nut 04 T.P.I - 1 1/2"	Nr.	7080.00
138	Brass Nut 04 T.P.I - 2"	Nr.	10500.00
139	Brass Nut 04 T.P.I - 2 1/2"	Nr.	14100.00
140	Brass Nut 02 T.P.I - 2"	Nr.	10500.00
141	Brass Nut 02 T.P.I - 2 1/2"	Nr.	14100.00
142	Steel Spindle - 3/4"	L.ft	560.00
143	Steel Spindle - 1"	L.ft	560.00
144	Steel Spindle - 1 1/4"	L.ft	970.00
145	Steel Spindle - 1 1/2"	L.ft	1341.00
146	Steel Spindle - 2"	L.ft	1600.00

147	Steel Spindle - 2 1/2"	L.ft	3300.00
148	Spindle Bush Welding - 3/4"	Nr.	245.00
149	Spindle Bush Welding - 1"	Nr.	245.00
150	Spindle Bush Welding - 1 1/4"	Nr.	265.00
151	Spindle Bush Welding- 1 1/2"	Nr.	310.00
152	Spindle Bush Welding - 2"	Nr.	685.00
153	Spindle Bush Welding - 2 1/2"	Nr.	900.00
154	Threading 04 T.P.I.- 3/4"	L.ft	240.00
155	Threading 04 T.P.I. - 1"	L.ft	240.00
156	Threading 04 T.P.I.- 1 1/4"	L.ft	330.00
157	Threading 04 T.P.I.- 1 1/2"	L.ft	420.00
158	Threading - 04 T.P.I. - 2"	L.ft	650.00
159	Threading - 04 T.P.I.- 2 1/2"	L.ft	960.00
160	Threading - 02 T.P.I. - 2"	L.ft	960.00
161	Threading - 02 T.P.I.- 2 1/2"	L.ft	1210.00
162	Steel Operating wheel 16" ϕ for- 3/4"	Nr.	2970.00
163	Steel Operating wheel 16" ϕ for- 1"	Nr.	2970.00
164	Steel Operating wheel 18" ϕ for- 1 1/4"	Nr.	2970.00
165	Steel Operating wheel 18" ϕ for- 1 1/2"	Nr.	3470.00
166	Steel Operating wheel 20" ϕ for- 2"	Nr.	4200.00
167	Steel Operating wheel 16" ϕ for- 2 1/2"	Nr.	6000.00
<u>STEEL RAG BOLT SIZES</u>			
168	Steel Rag Bolt 3/4" ϕ - 1/2" x 8"	Nr.	178.00
169	Steel Rag Bolt - 1" ϕ x - 1/2"x 6"	Nr.	141.00
170	Steel Rag Bolt - 1 1/4" ϕ - 5/8"x 9"	Nr.	240.00
171	Steel Rag Bolt - 1 1/2" ϕ - 5/8" x 6"	Nr.	276.00
172	Steel Rag Bolt - 2" ϕ - 3/4" x 9"	Nr.	330.00
173	Steel Rag Bolt - 2 1/2" ϕ - 3/4" x 6"	Nr.	420.00
<u>STEEL RAG BOLT H. STOCK SIZES</u>			
174	Steel Rag Bolt H. Stock - 1/2" x 6"	Nr.	178.00
175	Steel Rag Bolt H. Stock - 5/8" x 6"	Nr.	276.00
176	Steel Rag Bolt H. Stock - 3/4" x 6"	Nr.	300.00
<u>STEEL BOLTS & NUT SIZES</u>			
177	Steel Bolts & Nuts - 2" x 1/2"	Nr.	45.00
178	Steel Bolts & Nuts - 2 1/2" x 1/2"	Nr.	50.00
179	Steel Bolts & Nuts - 3" x 1/2"	Nr.	55.00
<u>STEEL WASHERS SIZES</u>			
180	Steel Washers - 1/2"	Nr.	8.00
181	Steel Washers - 5/8"	Nr.	10.00
182	Steel Washers - 3/4"	Nr.	14.00

	<u>BLASTING MATERIALS</u>		
183	Steel jumper	Kg.	230.40
184	Fuse wire	L.m.	38.50
185	Blasting powder	Kg.	593.50
186	Dyna cord	L.m.	93.70
187	Gelignite	Kg.	580.00
188	Ordinary Detonator	Nr.	10.80
189	Electrict Detonator	Nr.	125.00
190	Amonium Nitrate	Kg.	165.00
191	Water jel	Kg.	778.30

RATES FOR IRRIGATION AND DRAINAGE WORKS -2018

PROVINCIAL IRRIGATION DEPARTMENT - WESTERN PROVINCE

ITEM NO.	DESCRIPTION	UNIT	RATE 2018
01	CLEARING AND GRUBBING		
	<p>Note : <i>Light jungle</i> means all growth of vegetation consisting of undergrowth but not excluding "secondary growth jungle" and trees of varying girth and density. Shall be girth of 5% of trees will vary upto 2m. (Girth is measuring at a height of 1m. From the ground level)</p> <p><i>Medium jungle</i> means as above and Shall be girth of 5% of trees will vary upto 3m.</p> <p><i>Secondary growth jungle</i> means All growth of dense vegetation consisting shrubs, thorny bushes, undergrowth.</p> <p>(Note shall be mentioned under the relevent item.)</p>		
1.1	Light jungle clearing along channel trace Including removing outside reservation and burning .	Ac.	74,844.00
1.2	Medium jungle clearing along channel trace Including removing outside reservation and burning .	Ac.	112,266.00
1.3	Secondary growth jungle clearing along channel trace, including removing out side reservation and burning .	Ac.	37,422.00
02	EARTH WORK		
2.1	Manual earth Excavation and spoil to waste or fill material , cutting and lift 0'-5', spreading 100' along the bund.	Cu.	3,932.00
2.2	Manual earth excavation in canals and forming canal bunds cutting and lift 0'- 5', spreading 100'.	Cu.	4,424.00
2.3	Manual Earth excavation in canals and forming bunds , cut and lift 0'-5', spread upto 100' / Cu	Cu.	4,915.00
2.4	Manual earth excavation from borrow and forming bunds , cutting and lift 0' - 5', spreading 100' .	Cu.	5,898.00
2.5	Manual earth excavation for foundation, spoil to waste or back filling and ram and surplus disposed within the site as directed, cutting up to 5' and lift 0' - 5', spreading 100' .	Cu.	5,407.00
2.6	Manual earth excavation, additional to cut and lift over 5' up to 10', spreading 100' along the bund.	Cu.	3,410.00
2.7	Manual earth excavation, additional to cut and lift over 10' up to 15', spreading 100' along the bund.	Cu.	3,697.00
2.8	Manual gravel excavation and spoil to waste or fill material , cutting and lift 0' - 5', spreading 100'.	Cu.	6,509.00
2.9	Manual soft rock excavation and spoil to waste or fill material , cutting and lift 0' - 5', spreading 100'.	Cu.	10,052.00
	<p>Note :- <i>Approved earth</i> shall filling materials that earth shall be free of vegetation, decomposed materials, roots, quarry earth with various sizes rubbles, boulders, industrial waste, chemicals, plastic etc. (Note shall be mentioned under the relevent item.)</p>		
2.10	Approved hard Earth spreading , levelling watering and manual compaction, using standered cast iron stamper or equivalent and filling in 6" thick layers (loose volume) in earth available at site.	Cu.	3,337.00

2.11	Approved earth supplying within 20 Km from the source and piled at site (measured at piled volume)	Cu.	4,080.00
2.12	Manual haul earth/ Gravel/ soft rock, haul 100' in each step up to max. of 300'.	Cu.	1,212.00
2.13A	Manual Stripping top soil up to 3" depth, haul up to 100'.	Sqr.	1,476.00
2.13 B	Stripping top soil by machinery up to 3" depth, and spoil to waste.	Sqr.	102.75
2.14	Manual Scraping top vegetation , haul up to 100'.	Sqr.	220.00
2.15	Manual Forming puddle core wall , including compacting (Maudling) of puddle and solid mass including cutting clay. excluding transport.	Cu.	13,219.00
2.16	Manual Placing and compacting earth in canal/ backfill including watering , including picking roots & spreading.	Cu.	1,313.00
2.17	Furnishing , Planting and Watering turf (Full turfing) , excluding haul.	Sqr.	2,162.00
2.18	Furnishing , Planting and Watering turf (Strip turfing) , excluding haul.	Sqr.	1,081.00
2.19	Placing and Packing 6" - 9" / 9" - 12" rubble in slope of embankment , excluding haul but including rubble within 20 Km. by T-T/ Lorry.	Cu.	7,853.00
2.20	Placing and packing 9"-12" /12"-18" rubble in slope of embankment, excluding haul but including rubble within 20 Km. by T-T/ Lorry.	Cu.	7661.00
2.21	9" Thick rubble pitching in 1:5 cement & sand mr. with 6"-9" rubble and lift 5'-0", haul 100'. (This rate shall be applicable for transport of cement, sand & rubble within 20 Km. by T-T/ Lorry)	Sqr.	23,940.00
3A	CANAL CLEARING AND DESILTING		
3A.1	Desilting in canals, spoil to waste or fill material cut up to 6" depth, Spreading/ haul up to 100'. (Manual)	Sqr.	1,246.00
3A.2	Removal of water-hyacinths and deposit as directed. (Manual)	Sqr.	445.00
3A.3	Uprooting shrub jungle in canals and / or canal reservations including removing out side reservation and burning , height 2' - 3' (Manual)	Sqr.	645.00
3A.4	Uprooting shrub jungle in canals and / or canal reservations including removing out side reservation and burning , height over 3' (Manual)	Sqr.	1,112.00
3B	<u>EARTH EXCAVATION IN CANAL BY MACHINERY.</u>		
	Note :-When using item 3B.1,3B.2,3B.3,3B.4,3B.5,3B.6, the above item 3A.1,3A.2,3A.3 & 3A.4 should not included in BOQ.		

3B.1	Earth excavation in canals/channels using machinery according to the given levels and side slopes and spreading excavated soil on bunds as directed. Unserviceable excavated earth should not be deposited on bunds. Fill material cut up to 5 ft. lift up to 5 ft.spreading 100 ft.	Cu.	369.00
3B.2	Earth excavation in canals/channels using machinery according to the given levels and side slopes and spreading excavated soil on bunds as directed. Unserviceable excavated earth should not be deposited on bunds. Fill material cut 5' - 10'. lift up to 10ft.spreading 100 ft. Machine transport will be paid seperately	Cu.	378.00
3B.3	Earth excavation in canals/channels using machinery according to the given levels and side slopes and spreading excavated soil on bunds as directed. Unserviceable excavated earth should not be deposited on bunds. Fill material cut 10' - 15'. lift up to 15ft.spreading 100 ft.	Cu.	386.00
3B.4	Earth excavation in canals/channels using machinery according to the given levels and side slopes and spreading excavated soil on bunds as directed. Unserviceable excavated earth should not be deposited on bunds. Fill material cut 15' - 20'. lift up to 15ft.spreading 100 ft.	Cu.	395.00
3B.5	Earth excavation in canals/channels and side slopes using machinery and spreading excavated soil on bunds as directed. Unserviceable excavated earth should not be deposited on bunds. Cutting depth 1'-0" and spreading 100'.Machine transport will be paid seperately	Sqr.	369.00
3B.6	Earth excavation in canals or channels and side slopes Using backhoe with barge and spreading excavated soil on bunds as directed. Unserviceable excavated earth should not be deposited on bunds. Cutting depth 1'-0" and spreading 100'.Machine transport will be paid seperately	Sqr.	553.00
04	REINFORCEMENT		
4.1	Tor steel reinforcement cutting , bending to shape laid in position and tied with 16 B.W.G. binding wire	Kg.	235.00
4.2	Mild steel reinforcement cutting , bending to shape laid in position and tied with 16 B.W.G. binding wire	Kg	235.00
4.3	Supplying and fixing 16 mm dia, 0.75m. M/S dowel bending half round shape at one end and fixing the other end to the rock, including 0.3 m. boring holes with washing & cleaning immediately prior to fill grout and filling cement grout. (The bore hole size shall be between 1.25 to 1.5 times the diameter of the dowel bar.)	Lft.	706.00
05	FORM WORK		
5.1	Furnishing, making, fixing and removing formwork for sides of foundation using 3/4" thick rubber planks , excluding transport (for 2 users)	Sqr.	5,396.00

5.2	Furnishing and making formwork using 3/4" thick timber shuttering planks for each of two uses including fixing and removing same once, excluding transport	Sqr.	7,796.00
5.3	Furnishing and making formwork using 3/4" thick timber shuttering planks for one use including fixing and removing , excluding transport	Sqr.	12,868.00
5.4	Furnishing and making formwork using 15 mm thick plywood for each of 2 uses including fixing and removing, excluding transport	Sqr.	17,513.00
5.5	Timbering in foundation using 1 1/2" thick timber planks, including necessary struts and props, Excluding transport (Close type)	Sqr.	13,379.00
06	CONCRETE		
6.1	1:4:8 (1 1/2") Concrete excluding formwork, excluding lift over 5' and excluding haul (hand mixing), including placing, compacting and curing.(The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	44,242.00
6.2	1:3:6 (1 1/2") Concrete excluding formwork, excluding lift over 5' and excluding haul (hand mixing),including placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	46,375.00
6.3	1:3:6 (1 1/2") Concrete excluding formwork, excluding lift over 5' and excluding haul (using concrete mixer), placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	39,495.00
6.4	1:3:6 (1") Concrete excluding formwork, excluding lift over 5' and excluding haul (hand mixing),placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	47,879.00
6.5	1:3:6 (1 ") Concrete excluding formwork, excluding lift over 5' and excluding haul (using concrete mixer),placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	37,543.00
6.6	1:2:4 (3/4") Concrete excluding formwork, excluding lift over 5' and excluding haul (hand mixing),placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	52,729.00
6.7	1:2:4 (3/4") Concrete excluding formwork, excluding lift over 5' and excluding haul (using concrete mixer),placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	42,931.00
6.8	1:1.5:3 (3/4") Concrete excluding formwork, excluding lift over 5' and excluding haul (hand mixing), (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	54,946.00
6.9	1:1.5:3 (3/4") Concrete excluding formwork, excluding lift over 5' and excluding haul (using concrete mixer),placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	44,268.00

6.10	Additional lift of concrete over 5' up to 10'	Cu.	2,945.00
	Note :-Additional for haul shall be maximum 300'		
6.11	Additional for haul of materiel for concrete in each step of 100'.	Cu.	2,856.00
07	RANDOM RUBBLE WORK		
7.1	6"-9" Random rubble masonry in 1:5 ct. mt. ,(This rate shall be applicable for transport of cement, sand,& rubble T-T/Lorry)	Cu.	39,769.00
	Note :-Additional for haul shall be maximum 300'		
7.2	Additional for haul of materiel for rubble masonry in each step of 100'.	Cu.	3,085.00
7.3	6"-9" Random Rubble masonry in 1:5 ct.mr. lift 0' - 5' , rubble available at site .	Cu.	31,969.00
7.4	6"-9" Random rubble pitch paving along bund ,(This rate shall be applicable for transport of rubble T-T/Lorry)	Sqr.	6,599.00
7.5	6"-9" Random rubble pitch paving along bund , rubble available at site .	Sqr.	3,359.00
08	PLASTERING		
8.1	1/2" thick semi rough cement plastering 1:3 cement, sand mixture, (transport of cement and sand T-T/Lorry) .	Sqr.	7,026.00
8.2	3/4" thick semi rough cement plastering 1:3 cement, sand mixture, (transport of cement and sand T-T/Lorry) .	Sqr.	8,784.00
9A	RCC HUME PIPES IN STRUCTURES (without Collars)		
	Note :-According to the site condition collar rate should be added seperately		
9A .1	Furnish, lay and joint 6" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	831.00
9A.2	Furnish, lay and joint 9" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	1,095.00
9A.3	Furnish, lay and joint 12" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	1,343.00
9A.4	Furnish, lay and joint 15" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	1,476.00
9A.5	Furnish, lay and joint 18" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	1,753.00
9A.6	Furnish, lay and joint 24" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	2,419.00
9A.7	Furnish, lay and joint 30" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	3,407.00
9A.8	Furnish, lay and joint 36" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	4,155.00
9A.9	Furnish, lay and joint 42" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	5,491.00
9A.10	Furnish, lay and joint 48" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	6,604.00

9B	Supplying R.C.C. Hume Pipe Collars		
	<i>Note :-Putting concrete pad under collar rate shall be added seperately.</i>		
9B.1	Supplying & fixing 6" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	552.00
9B.2	Supplying & fixing 9" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	600.00
9B.3	Supplying & fixing 12" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	636.00
9B.4	Supplying & fixing 15" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	756.00
9B.5	Supplying & fixing 18" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	864.00
9B.6	Supplying & fixing 24" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	1,080.00
9B.7	Supplying & fixing 30" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	1,188.00
9B.8	Supplying & fixing 36" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	1,452.00
9B.9	Supplying & fixing 42" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	1,764.00
9B.10	Supplying & fixing 48" dia R.C.C. Hume pipe collars excluding transport .Including wiith filling 1:3 cement sand motar between pipe and collar.	Nr.	2,604.00
10	STOP PLANKS		
10.1	Supplying & fixing 6" x 3" stop planks in specified class timber (Kumbuk) including applying two coats of hot tar and fixing 2 Nrs. of M/S hooks made by 3/8" dia. M/S bars with applying two coats of anticorrosive paint for the surfaces of hooks, excluding transport.	Cu.ft.	12,276.00
10.2	Supplying & fixing 6" x 3" stop planks in specified class timber (Naa,or Mee) including applying two coats of hot tar and fixing 2 Nrs. of M/S hooks made by 3/8" dia. M/S bars with applying two coats of anticorrosive paint for the surfaces of hooks, excluding transport.	Cu.ft.	8,743.00
10.3	Applying two coats of hot tar and fixing 2nos.of M/S hooks made by 3/8"M.S. bars with painting two coats of anticorrosive paint removing rust for the timber planks (6"x3") provided by the department excluding transport.	Cu.ft.	2,983.00

11	MISCELLANEOUS		
11.1	Furnishing 2" brass padlock and handing over.	Nr.	678.00
11.2	Furnishing, bending and fixing 50 x 5 mm. flat iron and 10 mm. dia. M/S hooks or using flat iron hooks as a locking arrangement for anicut planks including removing rust and applying two coats of anticorrosive.	Lft.	306.00
11.3	Furnishing 1" dia. 3' long steel chain as a locking arrangement for the operating wheel .	Nr.	900.00
11.4	Pumping water using 2" dia. Water pump , (Wet basin with operator.)	Per day	3,360.00
11.5	Coffer damming using large size polysack bags including placing and removing .	Nr.	326.00
11.6	Providing wheep holes using 4" dia. PVC pipes (Type 250) (the distance shall not less than 8'-0" in a row and use as Zig-Zag method.)	Lft.	297.00
11.7	Hire charges for T-T (Wet Lease basis including operator) .	per day	6,600.00
11.8	Making temporary shed (size 10' x10') during construction/ repairing period & removing.	Nr.	5,160.00
12	Transport cost for haul earth / sand / gravel by T-T Excluding loading		
12.1	Up to 0.25 miles (0.40 Km.)	Per Cu.	936.00
12.2	Up to 0.50 miles (0.80 Km.)	Per Cu.	1,002.00
12.3	Up to 0.75 miles (1.20 Km.)	Per Cu.	1,152.00
12.4	Up to 1.00 miles (1.60 Km.)	Per Cu.	1,302.00
12.5	Up to 1.50 miles (2.41 Km.)	Per Cu.	1,452.00
12.6	Up to 2.00 miles (3.21 Km.)	Per Cu.	1,602.00
12.7	Up to 3.00 miles (4.82 Km.)	Per Cu.	1,812.00
12.8	Up to 4.00 miles (6.43 Km.)	Per Cu.	1,962.00
12.9	Up to 5.00 miles (8.04 Km.)	Per Cu.	2,112.00
13	Making & Fixing NAME BOARDS		
13.1	Providing a Digital printing Name Board size (4'-0" x 3'-0") for the project,the board shall 3/4"x3/4" box iron 1.2 mm thick frame and 1/2"x1/2" aluminium L - bar around the frame fixed with pop riverts with digital print stiker.Supplying 1 1/4" dia.G.I. pipe 3.2 mm.thick 3m. in length and fixing one end to the board with 03 nrs. of 1/4" dia. 2 1/2" long nut & bolts and other end concreting circular at the bottom to the ground as per detail plan including painting steel frame work and G.I. pipe with two coats of anticorrosive paint. (inclusive transport.)	Nr.	7,636.00

14	Making, Supplying & Fixing Steel gate		
14.1	Making lifting steel gate using 75 x 75 x 6 mm angle iron & 5 mm. thick MS plate with 10 mm.thick MS bracket as given detail plan No 1. of the steel gate and fixing to the anicut as directed. ((This rate for only four nr.75 x 75 x 6 mm.angle iron for both ways as detail plan No 1 and not inclusive other necessary items.)including removing rust and applying two coats of anticorrosive paint . Excluding transport.	Sqft.	2,733.00
14.2	Making lifting steel gate using 65 x 65 x 6 mm angle iron & 5 mm. thick MS plate with 10 mm.thick MS bracket as given detail plan No 2. of the steel gate and fixing to the anicut as directed. (This rate for only four nr.65 x 65 x 6 mm. angle iron for both ways as detail plan No 2 and not inclusive other necessary items.) including removing rust and applying two coats of anticorrosive paint and greasing to threading part of rod & bush .Excluding transport.	Sqft.	2,611.00
15	Demolishing & Clearing		
15.1	Demolishing reinforced cement concrete removing reinforcement and Clearing or stacking.	Cu.	17,734.00
15.2	Demolishing cement concrete and Clearing or stacking.	Cu.	13,284.00
15.3	Demolishing rubble masonry in cement and sand,stacking rubble and Clearing debries away.	Cu.	5,530.00
15.4	Chipping cement plaster and Clearing debries away.	Sqr.	1,652.00
16	SURVEYING		
16.1	Medium jungle clearing for surveying work, 4 ft .wide.	Mile	16,315.00
16.2	Light jungle clearing for surveying work, 4 ft .wide.	Mile	11,421.00
16.3	Chaining inclusive of cutting jungle pegs and pegging.	Mile	3059.00
16.4	Levelling every 100ft. Establishing bench marks on rock or tree and checking back.	Mile	6118.00
16.5	Surveying including fixing angle pickets and taking angles .	Mile	6118.00
16.6	Chaining traverse line and taking off sets .	Mile	8158.00
16.7	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (400' x 400')	Nr.	20,394.00
16.8	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (200' x 200 ')	Nr.	5,099.00

16.9	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (100' x 100')	Nr.	1,275.00
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