



" විශිෂ්ට රාජ්‍ය සේවාවක් සඳහා ඇප කැපවෙමු "
ප්‍රධාන ලේකම් කාර්යාලය - බස්නාහිර පළාත
பிரதான செயலாளர் அலுவலகம் - மேல் மாகாணம்
OFFICE OF THE CHIEF SECRETARY - WESTERN PROVINCE



204, ධෙන්සිල් කොබ්බෑකඩුව මාවත, බත්තරමුල්ල.
 204, டென்சில் கொப்பேகடுவ மாவத்தை. பத்தரமுல்ல.
 204, Denzil Kobbekaduwa Mawatha, Battaramulla.



ISO/IEC: 17021
QMS-001-01

ප්‍රධාන ලේකම් பிரதான செயலாளர் Chief Secretary	}	දුරකථන / தொலைபேசி / Telephone - 011 - 2092599	}	පොදු දුරකථන தொலைபேசி இலக்கம் General Telephone	}	011 - 2093000
		ෆැක්ස් / இலக்கம் / Fax - 011 - 2092601				
		ඊ-මේල් / இலக்கம் / E-mail - chiefsecretary@wpc.gov.lk				

මගේ අංකය எனது இலக்கம் My No. }	CSWP/ENG-CON/5-2/FI/I(B)	ඔබේ අංකය உமது இலக்கம் Your No. }	දිනය திகதி Date }	2022.09.08
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පළාත් ගොඩනැගිලි අධ්‍යක්ෂ/ පළාත් වාරිමාර්ග අධ්‍යක්ෂ,
 සහාති, 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 2022 – Revision - 03

2022.09.08 දින සිට නැවත දැනුම් දෙන තුරු වලංගු ඉදිකිරීම් ඇස්තමේන්තු පිළියෙල කර ගැනීමට උපයෝගී කරගත යුතු සුළු වාරිමාර්ග ගාස්තු උපලේඛණයේ (සංශෝධිත -03) නිකුත් කර ඇත. මෙම ලේඛණය බස්නාහිර පළාත් සභාවේ පළාත් ඉංජිනේරු කාර්යාංශයේ වෙබ් අඩවියෙන් (eng.chiefsec.wp.gov.lk) බාගත හැක.

- මෙම රේටි මිල ගණන් පිළියෙල කිරීමේදී එකතු කළ අගය මත බදු (VAT) , රේටි මිල ගණන් වලට අඩංගු කර නැත. ඇස්තමේන්තු පිළියෙල කිරීමේදී එකතු කළ අගය මත බදු , ප්‍රමාණ බිල්පතේ මුළු එකතුවට අමතර මුදලක් වශයෙන් එකතු කළ යුතුය.
- ලේඛනයේ සඳහන් රේටි මිල ගණන් සකසා ඇත්තේ බස්නාහිර පළාතේ දිස්ත්‍රික් තුනම ආවරණය වන පරිදි හා විවෘත වෙළඳපොළේ 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 තිබේනම්, ඒ පිළිබඳව මා වෙත දැන්වීමට පියවර ගන්න. එවැනි විශේෂ අවස්ථාවකදී යම් බල ප්‍රදේශයකට පමණක් සීමාවන පරිදි මිල ගණන් සංශෝධනය කිරීමට පියවර ගත හැක.
- ඇස්තමේන්තු පිළියෙල කිරීමේදී භාවිතා කිරීම සඳහා මෙම ලේඛනයේ පිටපත් අදාළ කාර්මික නිලධාරීන් වෙත කරුණාකර නිකුත් කරන්න.

අමාත්‍යාංශ ප්‍රධාන ලේකම් Deputy Chief Secretary	පාලන Administration Tel : 0112092606 Fax : 0112092609 dcsadmins@wpc.gov.lk	පුහුණු හා පුහුණු Personnel & Training Tel : 0112092631 Fax : 0112092647 dcspt@wpc.gov.lk	ව්‍යය Finance Tel : 0112092640 Fax : 0112092636 dcsfinance@wpc.gov.lk	සැලසුම් Planning Tel : 0112092532 Fax : 0112092533 dcsplanning@wpc.gov.lk	භූමිමාලිකා Engineering Tel : 0112092501 Fax : 0112092505 dcseng@wpc.gov.lk	ප්‍රධාන අභ්‍යන්තර විමර්ශක Chief Internal Auditor Tel : 0112092628 Fax : 0112092625 ciad@wpc.gov.lk	
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05. මෙම රේඛා 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 පිරිවිතර SCA/3/1, SCA/3/2, SCA/3/3, SCA/4(VOL-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.



ඒ. ඩබ්. ඩී. පෙරේරා ,
නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු) - වැ.බ
බස්නාහිර පළාත.

ඒ. ඩබ්. ඩී. පෙරේරා
නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු) (වැ.බ)
ප්‍රධාන ලේකම් කාර්යාලය (බ.ප)
පස්වන මහල, අංක 204,
බේසබිල් කොඩිබෑකඩුව මාවත,
බත්තරමුල්ල.

පිටපත්:

1. ප්‍රධාන ලේකම් (බ.ප.) : කරු.දැ.ස.
2. දිස්ත්‍රික් ලේකම්වරුන් (කොළඹ/ ගම්පහ/ කළුතර) :

දිස්ත්‍රික් ලේකම් කාර්යාලයේ
ඉංජිනේරුවරුන්ගේ දැනගැනීම සඳහා
යොමුකරන්න

3. බස්නාහිර පළාතේ සියලුම අමාත්‍යාංශ ලේකම්වරුන් : කරු.දැ.ස.
4. නියෝජ්‍ය ප්‍රධාන ලේකම් (මූල්‍ය/ සැලසුම්) : කරු.දැ.ස.
5. අධ්‍යක්ෂ (අභ්‍යන්තර විගණන) : කරු.දැ.ස.
6. සහකාර විගණකාධිපති : කරු.දැ.ස.

IRRIGATION SCHEDULE OF RATES - 2022 REVISION 3



ALL RATES ARE
COMMON TO
COLOMBO, GAMPAHA &
KALUTARA DISTRICTS

(Rates effective from 08.09.2022 until further notice.)

PROVINCIAL IRRIGATION
DEPARTMENT

WESTERN - PROVINCE

IRRIGATION SCHEDULE OF RATES -2022 REVISION 3

IRRIGATION SCHEDULE OF RATES

General Notes

- 1 This Irrigation Schedule of Rates (ISR) has effected date from 2022.09. 08 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 of western province.
- 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.

<i>To convert rate per</i>	<i>To rate per</i>	<i>Multiply the present</i>
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 **Unit Conversions**

convert Lit. to gal. multiply by 0.222
 convert Mles 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

(i) Useful Data for steel as follows.

Steel Bars

<i>Dia. mm</i>	<i>Area Sq.mm</i>	<i>Normal weight (Kg/m.)</i>	<i>Minimum bend Radius</i>
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

<i>Size (mm)</i>	<i>Sectional Area</i>	<i>weight (Kg/m.)</i>
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

<i>Size (mm)</i>	<i>Thickness (mm)</i>	<i>weight (Kg/m.)</i>
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
m³	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 - 2022 REVISION 3			
ITEM NO.	DESCRIPTION	UNIT	PRICE (excluding VAT)
	MASONRY		
1	Cement - 50kg bags of "INSEE Sanstha", "INSEE Mahaweli Marine", "Ambuja", "L & T", "Nippon", "Ultra Tech" & "Singhe", "Lanwa", etc., (O.P.C. complying to S.L.S.107) (including around 16km transport with loading & unloading)	Nr.	3,285.00
2	Rubble 6" x 9" (including around 16 km transport with loading & unloading)	Cube	16,145.00
3	River Sand (including around 16 km transport with loading & unloading)	Cube	32,180.00
4	Metal 1/2" (including around 16 km transport with loading & unloading)	Cube	20,145.00
5	Metal 3/4" (including around 16 km transport with loading & unloading)	Cube	19,845.00
6	Metal 1" (including around 16 km transport with loading & unloading)	Cube	18,145.00
7	Metal 1 1/2" (including around 16 km transport with loading & unloading)	Cube	18,145.00
8	Quary Dust (including around 20 km transport with loading & unloading)	Cube	20,145.00
9	Aggregate Base Course (ABC)- graded 37.5 mm. (excluding transport)	Cube	19,145.00
10	Drinking Water	1Lt.	0.56
	STEEL		
11	Tor steel -SLS 375 (including transport)	kg.	471.00
12	Mild steel -SLS 375 (including transport)	kg.	471.00
13	Binding wire 18G (25 Kg. roll)	kg.	351.00
14	25 x 25 x 5mm Angle iron	L.ft	216.00
15	38 x 38 x 5mm Angle iron	L.ft	369.00
16	50 x 50 x 6mm Angle iron	L.ft	529.00
17	65 x 65 x 6mm Angle iron	L.ft	681.00
18	75 x 75 x 6mm Angle iron	L.ft	846.00
19	100 x 50 x 6 mm - Channel Iron	L.ft	1,443.00
20	125 x 65 x 6mm Channel iron	L.ft	2,514.00
21	150 x 75 x 6mm Channel iron	L.ft	3,148.00
22	Steel Wire nails 1"	kg.	572.00
23	Steel Wire nails 1 1/2"	kg.	572.00
24	Steel Wire nails 2"	kg.	565.40
25	Steel Wire nails 3"	kg.	555.60
26	Steel Wire nails 5"	kg.	560.00
27	6mm dia. M.S.Rod	L.ft	26.00
28	5mm thick M.S.Plate (8' X 4')	Sqft	2,065.00
29	10mm thick M.S. Plate (8' X 4')	Sqft	4,185.00
30	12mm thick M.S. Plate (8' X 4')	Sqft	5,078.00

31	1" dia. Steel chain	L.ft	850.00
32	2" x 1/4" Flat iron	L.ft	230.00
33	20 x 5mm Flat iron	L.ft	122.00
34	GI Pipe - 3/4" dia. x 1.8 mm thick	L.ft	467.00
35	GI Pipe - 1"dia. x 2mm. thk.	L.ft	623.00
36	GI Pipe - 1 1/2" dia. x 2.3mm thick	L.ft	1,042.00
37	GI Pipe - 2"dia. 2.3mm. thk.	L.ft	1,274.00
38	GI Pipe - 2 1/2" dia. X2.5mm thick	L.ft	1,823.00
39	GI Pipe - 3" dia. x 2.9mm thick	L.ft.	2,364.00
40	(3/4" x 3/4") 1.6mm. thk. Hollow Section	L.ft	172.00
41	Pop rivert	Nr.	2.00
42	1/4" dia. 2 1/2" long nut & bolt	Nr.	100.00
43	20mm dia. M.S.Rod	L.ft	381.00
44	16mm dia. M.S.Rod	L.ft	244.00
	<u>HUME PIPE (R.C.C)</u>		
45	04" Dia. X 8'-0"	Nr.	Deleted
46	06" Dia. X 8'-0"	Nr.	6,500.00
46.1	06" Dia. X 4'-0"	Nr.	3,250.00
47	09" Dia. X 8'-0"	Nr.	10,500.00
47.1	09" Dia. X 4'-0"	Nr.	5,500.00
48	12" Dia. X 8'-0"	Nr.	15,000.00
48.1	12" Dia. X 4'-0"	Nr.	7,500.00
49	15" Dia. X 8'-0"	Nr.	16,000.00
49.1	15" Dia. X 4'-0"	Nr.	8,000.00
50	18" Dia. X 8'-0"	Nr.	17,000.00
50.1	18" Dia. X 4'-0"	Nr.	8,500.00
51	24" Dia. X 8'-0"	Nr.	23,000.00
51.1	24" Dia. X 4'-0"	Nr.	9,500.00
52	30" Dia. X 8'-0"	Nr.	30,000.00
52.1	30" Dia. X 4'-0"	Nr.	15,000.00
53	36" Dia. X 8'-0"	Nr.	43,000.00
53.1	36" Dia. X 4'-0"	Nr.	21,500.00
54	42" Dia. X 8'-0"	Nr.	Deleted
54.1	42" Dia. X 4'-0"	Nr.	Deleted
55	48" Dia. X 8'-0"	Nr.	65,000.00
55.1	48" Dia. X 4'-0"	Nr.	32,500.00
	<u>HUME PIPE COLLARS (R.C.C)</u>		
56	06" Dia.	Nr.	1,100.00
57	09" Dia.	Nr.	1,500.00
58	12" Dia.	Nr.	1,800.00
59	15" Dia.	Nr.	2,100.00
60	18" Dia.	Nr.	2,500.00
61	24" Dia.	Nr.	3,800.00

62	30" Dia.	Nr.	4,500.00
63	36" Dia.	Nr.	5,000.00
64	42" Dia.	Nr.	Deleted
65	48" Dia.	Nr.	Deleted
	<u>Timber</u>		
66	Specified timber "Kumbuk"	Cuft	12,310.00
67	Specified timber " Naa, Mee"	Cuft	8,200.00
68	Plywood ordinary 12mm thick (8'x4')	Sqft	147.00
69	Plywood ordinary 15mm thick (8'x4')	Sqft	187.00
70	Rubber planks - 3/4" thick	Sqft	58.00
71	Rubber planks - 1" thick	Sqft	84.00
72	Rubber planks - 1 1/2" thick	Sqft	90.00
73	Timber 2" x 1" Class II - for shuttering	L.ft	30.00
74	Timber 2" x 2" Class II - for shuttering	L.ft	75.00
75	Timber 4" x 2" Class II - for shuttering	L.ft	215.00
	<u>MISCELLANEOUS</u>		
76	Bitumen	1Lt.	600.00
77	Brass padlock (2")	Nr.	1,075.00
78	PVC Pipe 4" dia. (type 250)	L.ft	452.00
79	Polysack Bags (filling 65kg capacity) with transport	Nr.	45.00
80	Anticorrosive paint	1Lt.	2,555.56
81	Enamel paint	1Lt.	2,962.96
82	Wood preservative	1Lt.	775.00
83	Turf	Sqft	50.00
84	Digital print	Sqft	250.00
85	Paint Brush 1" -Jat	Nr.	357.00
86	Paint Brush 1 1/2" -Jat	Nr.	412.00
87	Paint Brush 2" -Jat	Nr.	514.00
88	Paint Brush 3" -Jat	Nr.	823.00
89	Paint Brush 4" -Jat	Nr.	1,460.00
90	Paint Brush 6" -Jat	Nr.	1,827.00
91	Sand paper	Nr.	190.00
92	Grease	Kg.	950.00
	<u>PLANT</u>		
93	Water pump (with necessary items)	Per Day	3,300.00
94	Tractor & Tailer	Per Day	12,500.00
95	Hydrolic Backhoe excavator (1Cu.yd) (output 102.2Cubes/ 8 hours)	Per Hour	4,500.00
96	Hydrolic Backhoe excavator (1Cu.yd) (output 102.2Cubes/ 8 hours) with barge PC 100-PC 40	Per Hour	5,500.00
97	Concrete mixer with operator & fuel /(8 hour day)	Per Day	7,774.45
98	Vibrator / (8 hour day)	Per Day	4,819.00
99	Welding Plant / (8 hour day)	Per Day	1,650.00
100	Vibrating roller (1/2-1 ton) with fuel.	Per Day	7,277.00

	<u>VEHICLE TRANSPORT</u>		
101	Low bed trailer (first 15km)	Each	15,000.00
102	Additional 1km	Each	1,000.00
	<u>LABOUR</u>		
103	Special skill Labour (Electrician,Carpenter, Plumber)/8hours	Per Day	3,750.00
104	Skill Labour - (mason, barbender etc.)/ 8 hours	Per Day	3,625.00
105	Semi skill Labour / 8 hours	Per Day	2,775.00
106	Unskill Labour / 8 hours	Per Day	2,500.00
	<u>CAST IRON SLUICE GATES & COMPONENTS</u>		
107	3" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	50,000.00
108	4" (100 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	50,000.00
109	6" (150 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	58,000.00
110	9" (225 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	92,000.00
111	12" (300 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	105,000.00
112	15" (375 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	135,000.00
113	18" (450 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	180,000.00
114	24" (600 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	240,000.00
115	30" (750 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	430,000.00
116	36" (900 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	590,000.00
117	40" (1000 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	780,000.00
	<u>CAST IRON SLUICE GATE SPARES</u>		
118	C.I. Housing & Base Plate - 3/4"	Nr.	6,000.00
119	C.I. Housing & Base Plate - 1"	Nr.	9,600.00
120	C.I. Housing & Base Plate - 1 1/4"	Nr.	9,600.00
121	C.I. Housing & Base Plate - 1 1/2"	Nr.	12,300.00
122	C.I. Housing & Base Plate - 2"	Nr.	15,000.00
123	C.I. Housing & Base Plate - 2 1/2"	Nr.	24,000.00
	<u>Plate Type L Device</u>		
124	Plate Type L Device (without padlock) - 3/4"	Nr.	2,700.00
125	Plate Type L Device (without padlock) - 1"	Nr.	3,600.00
126	Plate Type L Device (without padlock) - 1 1/4"	Nr.	3,600.00
127	Plate Type L Device (without padlock) - 1 1/2"	Nr.	4,500.00
128	Plate Type L Device (without padlock) - 2"	Nr.	5,600.00
129	Plate Type L Device (without padlock) - 2 1/2"	Nr.	6,600.00
	<u>Brass Nut</u>		
130	Brass Nut 04 T.P.I- 3/4"	Nr.	7,900.00
131	Brass Nut 04 T.P.I - 1"	Nr.	13,000.00
132	Brass Nut 04 T.P.I- 1 1/4"	Nr.	13,000.00
133	Brass Nut 04 T.P.I - 1 1/2"	Nr.	16,000.00
134	Brass Nut 04 T.P.I - 2"	Nr.	26,000.00
135	Brass Nut 04 T.P.I - 2 1/2"	Nr.	42,000.00
136	Brass Nut 02 T.P.I - 2"	Nr.	26,000.00

137	Brass Nut 02 T.P.I - 2 1/2"	Nr.	42,000.00
	<u>Steel Spindle</u>		
138	Steel Spindle - 3/4"	L.ft	1,800.00
139	Steel Spindle - 1"	L.ft	2,500.00
140	Steel Spindle - 1 1/4"	L.ft	3,000.00
141	Steel Spindle - 1 1/2"	L.ft	4,200.00
142	Steel Spindle - 2"	L.ft	5,500.00
143	Steel Spindle - 2 1/2"	L.ft	10,000.00
	<u>Spindle Bush Welding</u>		
144	Spindle Bush Welding - 3/4"	Nr.	600.00
145	Spindle Bush Welding - 1"	Nr.	600.00
146	Spindle Bush Welding - 1 1/4"	Nr.	600.00
147	Spindle Bush Welding- 1 1/2"	Nr.	780.00
148	Spindle Bush Welding - 2"	Nr.	890.00
149	Spindle Bush Welding - 2 1/2"	Nr.	2,500.00
	<u>Threading</u>		
150	Threading 04 T.P.I.- 3/4"	L.ft	950.00
151	Threading 04 T.P.I. - 1"	L.ft	1,300.00
152	Threading 04 T.P.I.- 1 1/4"	L.ft	1,400.00
153	Threading 04 T.P.I.- 1 1/2"	L.ft	1,500.00
154	Threading - 04 T.P.I. - 2"	L.ft	2,600.00
155	Threading - 04 T.P.I.- 2 1/2"	L.ft	4,000.00
156	Threading - 02 T.P.I. - 2"	L.ft	2,300.00
157	Threading - 02 T.P.I.- 2 1/2"	L.ft	4,000.00
	<u>Operating wheel</u>		
158	Steel Operating wheel 16" ϕ for- 3/4"	Nr.	9,600.00
159	Steel Operating wheel 16" ϕ for- 1"	Nr.	9,600.00
160	Steel Operating wheel 16" ϕ for- 1 1/4"	Nr.	9,600.00
161	Steel Operating wheel 18" ϕ for- 1 1/2"	Nr.	11,500.00
162	Steel Operating wheel 20" ϕ for- 2"	Nr.	15,000.00
163	Steel Operating wheel 24" ϕ for- 2 1/2"	Nr.	24,000.00
	<u>STEEL RAG BOLT</u>		
164	Steel Rag Bolt 3/4" ϕ - 1/2" x 9"	Nr.	850.00
165	Steel Rag Bolt - 1" ϕ x - 1/2" x 6"	Nr.	800.00
166	Steel Rag Bolt - 1 1/4" ϕ - 5/8" x 9"	Nr.	1,100.00
167	Steel Rag Bolt - 1 1/2" ϕ - 5/8" x 6"	Nr.	1,000.00
168	Steel Rag Bolt - 2" ϕ - 3/4" x 9"	Nr.	1,600.00
169	Steel Rag Bolt - 2 1/2" ϕ - 3/4" x 6"	Nr.	1,500.00
	<u>STEEL BOLTS & NUT SIZES</u>		
170	Steel Bolts & Nuts - 2" x 1/2"	Nr.	250.00
171	Steel Bolts & Nuts - 2 1/2" x 1/2"	Nr.	300.00
172	Steel Bolts & Nuts - 3" x 1/2"	Nr.	350.00

	<u>STEEL WASHERS SIZES</u>		
173	Steel Washers - 1/2"	Nr.	100.00
174	Steel Washers - 5/8"	Nr.	120.00
175	Steel Washers - 3/4"	Nr.	150.00
	<u>OPERATING HANDLE</u>		
176	Steel Operating handle for- 3/4"	Nr.	2,400.00
177	Steel Operating handle for- 1"	Nr.	3,600.00
178	Steel Operating handle for- 1 1/4"	Nr.	3,600.00
179	Steel Operating handle for- 1 1/2"	Nr.	4,200.00
180	Steel Operating handle for- 2"	Nr.	5,500.00
181	Steel Operating handle for- 2 1/2"	Nr.	7,800.00

RATES FOR IRRIGATION AND DRAINAGE WORKS -2022 REVISION 3**PROVINCIAL IRRIGATION DEPARTMENT - WESTERN PROVINCE**

ITEM NO.	DESCRIPTION	UNIT	RATE 2022 REV.3
01	CLEARING AND GRUBBING		
	<p>Note : <i>1.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>1.2 Medium jungle</i> means as above and Shall be girth of 5% of trees will vary upto 3m.</p> <p><i>1.3 Secondary growth jungle</i> means All growth of dense vegetation consisting shrubs, thorny bushes, undergrowth. (Note shall be mentioned under the relevent item.)</p>		
1.1	Light jungle clearing along channel trace Including removing outside reservation and burning .	Ac.	103,950.00
1.2	Medium jungle clearing along channel trace Including removing outside reservation and burning .	Ac.	155,925.00
1.3	Secondary growth jungle clearing along channel trace, including removing out side reservation and burning .	Ac.	51,975.00
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.	5,461.00
2.2	Manual earth excavation in canals and forming canal bunds cutting and lift 0'- 5', spreading 100'.	Cu.	6,144.00
2.3	Manual Earth excavation in canals and forming bunds , cut and lift 0'-5', spread upto 100' / Cu	Cu.	6,827.00
2.4	Manual earth excavation from borrow and forming bunds , cutting and lift 0' - 5', spreading 100' .	Cu.	8,192.00
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.	7,509.00
2.6	Manual earth excavation, additional to cut and lift over 5' up to 10', spreading 100' along the bund.	Cu.	4,736.00
2.7	Manual earth excavation, additional to cut and lift over 10' up to 15', spreading 100' along the bund.	Cu.	5,135.00
2.8	Manual gravel excavation and spoil to waste or fill material , cutting and lift 0' - 5', spreading 100'.	Cu.	9,041.00
2.9	Manual soft rock excavation and spoil to waste or fill material , cutting and lift 0' - 5', spreading 100'.	Cu.	13,961.00

	Note :- Approved earth 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.)		
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.	4,635.00
2.11	Approved earth supplying within 10 Km from the source and piled at site (measured at piled volume)	Cu.	5,118.00
2.12	Spreading & Levelling using machine and Compaction of earth using Vibrating roller (1/2-1 ton) or equivalent including watering in 9" thick layers (measured on piled volume) . Rate include hire charges of machine & Vibrating roller. (earth available at site).	Cu.	3,000.00
2.13	Manually spreading and levelling piled approved earth available at site rate without compaction.	Cu.	1,350.00
2.14	Manual haul earth/Gravel/soft rock		
	Note :-Additional for haul shall be maximum 300'		
2.14.1	Manual haul earth/Gravel/soft rock ,haul 100'in each step to max.of 300'	Cu.	1,683.00
2.14.2	Manual haul earth/Gravel/soft rock ,haul 200'in each step to max.of 300'	Cu.	3,366.00
2.14.3	Manual haul earth/Gravel/soft rock ,haul 300'in each step to max.of 300'	Cu.	5,049.00
2.15	Manual Stripping top soil		
2.15.1	Manual Stripping top soil up to 3" depth, haul up to 100'.	Sqr.	2,050.00
2.15.2	Stripping top soil by machinery up to 3" depth, and spoil to waste.	Sqr.	132.00
2.16	Manual Scraping top vegetation , haul up to 100'.	Sqr.	306.00
2.17	Manual Forming puddle core wall , including compacting (Maudling) of puddle and solid mass including cutting clay. excluding transport.	Cu.	18,360.00
2.18	Manual Placing and compacting earth in canal/ backfill including watering , including picking roots & spreading.	Cu.	1,823.00
2.19	Furnishing , Planting and Watering turf (Full turfing) , excluding haul.	Sqr.	8,561.00
2.20	Furnishing , Planting and Watering turf (Strip turfing) , excluding haul.	Sqr.	4,279.00
2.21	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.	23,051.00
2.22	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.	22,233.00

2.23	Additional for haul of material for rubble		
	Note :-Additional for haul shall be maximum 300'		
2.23.1	Additional for haul of materiel for rubble in each step of 100'.	Cu.	2,522.00
2.23.2	Additional for haul of materiel for rubble in each step of 200'.	Cu.	5,044.00
2.23.3	Additional for haul of materiel for rubble in each step of 300'.	Cu.	7,566.00
2.24	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.	61,203.00
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.	1,730.00
3A.2	Removal of water-hycinths and deposit as directed. (Manual)	Sqr.	618.00
3A.3	Uprooting shrub jungle in canals and / or canal reservations including removing out side reservation and burning , height 2' - 3' (Manual)	Sqr.	896.00
3A.4	Uprooting shrub jungle in canals and / or canal reservations including removing out side reservation and burning , height over 3' (Manual)	Sqr.	1,545.00
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.	483.00
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. Unservicable excavted earth should not be depositted on bunds. Fill material cut 5' - 10'. lift up to 10ft.spreading 100 ft. Machine transport will be paid seperately	Cu.	489.00
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. Unservicable excavted earth should not be depositted on bunds. Fill material cut 10' - 15'. lift up to 15ft.spreading 100 ft.	Cu.	512.00
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. Unservicable excavted earth should not be deposited on bunds. Fill material cut 15' - 20'. lift up to 15ft.spreading 100 ft.	Cu.	514.00

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.	486.00
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.	631.00

04	REINFORCEMENT		
4.1	Tor steel reinforcement cutting , bending to shape laid in position and tied with 16 B.W.G. binding wire	Kg.	726.00
4.2	Mild steel reinforcement cutting , bending to shape laid in position and tied with 16 B.W.G. binding wire	Kg	726.00
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.	1,535.00
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.	8,400.00
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.	12,150.00
5.3	Furnishing and making formwork using 3/4" thick timber shuttering planks for one use including fixing and removing , excluding transport	Sqr.	19,177.00
5.4	Furnishing and making formwork using 15 mm thick plywood for each of 2 uses including fixing and removing, excluding transport	Sqr.	28,691.00
5.5	Timbering in foundation using 1 1/2" thick timber planks, including necessary struts and props, Excluding transport (Close type)for 2 uses	Sqr.	23,294.00
06	CONCRETE		
6.1	1:3:6 (1 1/2") Concrete (Grade M 10) excluding formwork, excluding lift over 5' and excluding haul (either hand mixing or using mixture),including placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	116,864.00
6.2	1:3:6 (1") Concrete (Grade M 10) excluding formwork, excluding lift over 5' and excluding haul (either hand mixing or using mixture),placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	119,131.00
6.3	1:2:4 (3/4") Concrete (Grade M 15) excluding formwork, excluding lift over 5' and excluding haul (either hand mixing or using mixture), placing, compacting and curing. (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	142,347.00
6.4	1:1.5:3 (3/4") Concrete (Grade M 20) excluding formwork, excluding lift over 5' and excluding haul (hand mixing or using mixture), (The rate shall be applicable for transport of cement, sand & metal by T-T/Lorry)	Cu.	155,057.00
6.5	Additional lift of concrete over 5' up to 10'	Cu.	4,090.00
6.6	Additional for haul of materiel for concrete		
	Note :-Additional for haul shall be maximum 300'		
6.6.1	Additional for haul of materiel for concrete in each step of 100'.	Cu.	3,967.00

6.6.2	Additional for haul of materiel for concrete in each step of 200'.	Cu.	7,934.00
6.6.3	Additional for haul of materiel for concrete in each step of 300'.	Cu.	12,270.00
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.	97,564.00
7.2.	Additional for haul of materiel for rubble masonry		
	Note :-Additional for haul shall be maximum 300'		
7.2.1	Additional for haul of materiel for rubble masonry in each step of 100'.	Cu.	3,598.00
7.2.2	Additional for haul of materiel for rubble masonry in each step of 200'.	Cu.	7,196.00
7.2.3	Additional for haul of materiel for rubble masonry in each step of 300'.	Cu.	10,794.00
7.3	6"-9" Random Rubble masonry in 1:5 ct.mr. lift 0' - 5' , rubble available at site .	Cu.	74,219.00
7.4	6"-9" Random rubble pitch paving along bund ,(This rate shall be applicable for transport of rubble T-T/Lorry)	Sqr.	10,107.00
7.5	6"-9" Random rubble pitch paving along bund , rubble available at site .	Sqr.	5,229.00
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.	14,637.00
8.2	3/4" thick semi rough cement plastering 1:3 cement, sand mixture, (transport of cement and sand T-T/Lorry) .	Sqr.	19,706.00
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.	1,453.00
9A.2	Furnish, lay and joint 9" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	2,302.00
9A.3	Furnish, lay and joint 12" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	3,211.00
9A.4	Furnish, lay and joint 15" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	3,453.00
9A.5	Furnish, lay and joint 18" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	3,859.00
9A.6	Furnish, lay and joint 24" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	5,176.00
9A.7	Furnish, lay and joint 30" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	6,719.00
9A.8	Furnish, lay and joint 36" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	8,941.00
9A.9	Furnish, lay and joint 48" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	13,244.00

9B	Supplying R.C.C. Hume Pipe Collars		
	Note :-Putting concrete pad under collar rate shall be added seperately.		
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.	1,394.00
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.	1,947.00
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.	2,307.00
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.	2,741.00
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.	3,221.00
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.	4,781.00
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.	5,621.00
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.	6,294.00
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.	19,164.00
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.	14,232.00
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.	3,899.00

11	MISCELLANEOUS		
11.1	Furnishing 2" brass padlock and handing over.	Nr.	1,290.00
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.	486.00
11.3	Furnishing 1" dia. 3' long steel chain as a locking arrangement for the operating wheel .	Nr.	3,060.00
11.4	Pumping water using 2" dia. Water pump , (Wet basin with operator.) .	Per day	3,960.00
11.5	Coffer damming using large size polysack bags including placing and removing .	Nr.	378.00
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.	1,356.00
11.7	Hire charges for T-T (Wet Lease basis including operator) .	per day	15,000.00
11.8	Making temporary shed (size 10' x10') during construction/ repairing period & removing.	Nr.	8,400.00
12	Transport cost for haul earth / sand / gravel by T-T including loading		
12.1	Up to 1 Km.	Per Cu.	1,710.00
12.2	Up to 2 Km.	Per Cu.	1,836.00
12.3	Up to 3 Km.	Per Cu.	1,962.00
12.4	Up to 4 Km.	Per Cu.	2,088.00
12.5	Up to 5 Km.	Per Cu.	2,214.00
12.6	Up to 6 Km.	Per Cu.	2,340.00
12.7	Up to 8 Km.	Per Cu.	2,592.00
12.8	Up to 10 Km.	Per Cu.	2,844.00
12.9	Up to 15.00 Km.	Per Cu.	3,474.00
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.	18,979.00

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.	6,963.00
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.	6,569.00
15	Demolishing & Clearing		
15.1	Demolishing reinforced cement concrete removing reinforcement and Clearing or stacking.	Cu.	24,630.00
15.2	Demolishing cement concrete and Clearing or stacking.	Cu.	18,450.00
15.3	Demolishing rubble masonry in cement and sand,stacking rubble and Clearing debries away.	Cu.	7,680.00
15.4	Chipping cement plaster and Clearing debries away.	Sqr.	2,295.00
16	SURVEYING		
16.1	Medium jungle clearing for surveying work, 4 ft .wide.	Mile	22,660.00
16.2	Light jungle clearing for surveying work, 4 ft .wide.	Mile	15,862.00
16.3	Chaining inclusive of cutting jungle pegs and pegging.	Mile	4,249.00
16.4	Levelling every 100ft. Establishing bench marks on rock or tree and checking back.	Mile	8,498.00
16.5	Surveying including fixing angle pickets and taking angles .	Mile	8,498.00
16.6	Chaining traverse line and taking off sets .	Mile	11,330.00
16.7	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (400' x 400')	Nr.	28,325.00
16.8	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (200' x 200 ')	Nr.	7,081.00
16.9	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (100' x 100')	Nr.	1,770.00

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