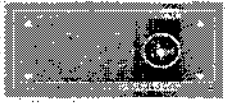




පළාත් ඉංජිනේරු කාර්යාංශය - බස්නාහිර පළාත
මාතෘකා ධාරිතා සංවිකල්ප සංවිකල්ප - මධ්‍යම මාතෘකා ධාරිතා
PROVINCIAL ENGINEERING ORGANIZATION - WESTERN PROVINCE



ප්‍රධාන ලේකම් කාර්යාලය, 204, ඩෙන්සිල් කොබ්බෑකඩුව මාවත, බත්තරමුල්ල.
 பிரதான செயலாளர் அலுவலகம், 204, டென்சில் கொப்பிகாட்டுவா மாளிகை, பத்தரமுல்ல.
OFFICE OF THE CHIEF SECRETARY 204, Denzil Kobbekaduwa Mawatha, Battaramulla

ප්‍රධාන ලේකම් (ඉංජිනේරු) Deputy Chief Secretary (Engineering)	දුරකථන / தொலைபேசி / Telephone 011 - 02092501 ෆැක්ස් / தொலைநகல் / Fax 011 - 02092501 E-මේල් / இணைப்புகள் / E-mail dc@eng.wpo.gov.lk	සාමාන්‍ය දුරකථන General Telephone	011 - 02092504

මගේ අංකය My No.	CSWP/ENG-CON/5-2/F/1(C)	ඔබේ අංකය Your No.	දිනය Date
			2024.03.20

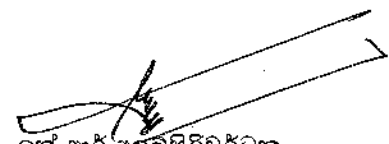
පළාත් ගොඩනැගිලි අධ්‍යක්ෂ/ පළාත් වාරිමාර්ග අධ්‍යක්ෂ,
 සාමාන්‍යාධිකාරී, පළාත්බද මාර්ග සංවර්ධන අධිකාරිය(බ.ප.),
 පළාත් පාලන කොමසාරිස් සහ සියලුම පළාත් පාලන ආයතන ලේකම්වරුන්,
 බස්නාහිර පළාතේ සියලුම ප්‍රාදේශීය ලේකම්වරුන්,
 සියලුම ප්‍රාදේශීය ඉංජිනේරුවරුන්,

සුළු වාරිමාර්ග ගාස්තු උපලේඛණය - 2024

2024.03.20 දින සිට නැවත දැනුම් දෙන තුරු වලංගු ඉදිකිරීම් ඇස්තමේන්තු පිළියෙල කර ගැනීමට උපයෝගී කරගත යුතු සුළු වාරිමාර්ග ගාස්තු උපලේඛණය නිකුත් කර ඇත. මෙම ලේඛණය බස්නාහිර පළාත් සභාවේ පළාත් ඉංජිනේරු කාර්යාංශයේ වෙබ් අඩවියෙන් (eng.chiefsec.wpo.gov.lk) බාගත හැක.

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

05. මෙම රේඛ මිල ගණන් පිළියෙල කර ඇත්තේ සුළු වාරිමාර්ග ද්‍රව්‍යවල 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.


 ඉංජි. කේ.ආර්.අබේසිරිවර්ධන,
 නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු)
 බස්නාහිර පළාත.

ඉංජි. කේ.ආර්. අබේසිරිවර්ධන
 නියෝජ්‍ය ප්‍රධාන ලේකම් (ඉංජිනේරු)
 ඉංජිනේරු කාර්යාලය (බ.ප.)
 පස්වන මහල, අංක 204,
 පොතොත් කොඩිගාමපිලි පාර,
 බත්තරමුල්ල

දුරකථන : 0112092501
 ෆැක්ස් : 0112092505
 විද්‍යුත් තැපෑල : dcs@eng.wpc.gov.lk

පිටපත්:

1. ප්‍රධාන ලේකම් (බ.ප.) : කරු.දැ.ස.
2. දිස්ත්‍රික් ලේකම්වරුන් (කොළඹ/ ගම්පහ/ කළුතර) : දිස්ත්‍රික් ලේකම් කාර්යාලයේ
ඉංජිනේරුවරුන්ගේ දැනගැනීම සඳහා
යොමු කරන්න
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.

අධ්‍යක්ෂ (කොටුසැලසුම්) இயங்ககூலி (கட்டுப்பாட்டு) Director (Buildings)	අධ්‍යක්ෂ (ඉංජිනේරු) இயக்ககூலி (இயந்திரவியல்) Director (Engineering)	ප්‍රධාන කළමනාකරු இயக்குகூலி (கணக்காளர்) Chief Accountant	මුහුණත, ඉංජිනේරු தலைமையக இயக்குகூலி (இயந்திரவியல்) Head Quarters Engineer	පරිපාලන නිලධාරී இயங்ககூலி (அலுவலர்) Administrative Officer	
Tel: 0112092503 Fax: 0112092510 eng.org.wpc@gmail.com	Tel: 0112092507 Fax: 0112092508 dir.eng@eng.wpc.gov.lk	Tel: 0112092524 Fax: 0112092523 eng.org-acc@gmail.com	Tel: 0112092526 Fax: 0112092505 hq.engwp@gmail.com	Tel: 0112092506 Fax: 0112092505 eng.eng.adm.wpc@gmail.com	

IRRIGATION SCHEDULE OF RATES - 2024



ALL RATES ARE COMMON TO
COLOMBO, GAMPAHA &
KALUTARA DISTRICTS

(Rates effective from 20.03.2024 until further notice.)

PROVINCIAL
IRRIGATION
DEPARTMENT

WESTERN - PROVINCE

IRRIGATION SCHEDULE OF RATES -2024

IRRIGATION SCHEDULE OF RATES

General Notes

- 1 This Irrigation Schedule of Rates (ISR) has effected date from 20.03.2024 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 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

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

RATES FOR IRRIGATION AND DRAINAGE WORKS -2024**PROVINCIAL IRRIGATION DEPARTMENT - WESTERN PROVINCE**

ITEM NO.	DESCRIPTION	UNIT	RATE 2024
01	CLEARING AND GRUBBING		
	<i>Note : 1.Light jungle 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) 1.2 Medium jungle means as above and Shall be girth of 5% of trees will vary upto 3m. 1.3 Secondary growth jungle means All growth of dense vegetation consisting shrubs, thorny bushes, undergrowth. (Note shall be mentioned under the relevent item.)</i>		
1.1	Light jungle clearing along channel trace Including removing outside reservation and burning .	Ac.	106,029.00
1.2	Medium jungle clearing along channel trace Including removing outside reservation and burning .	Ac.	159,044.00
1.3	Secondary growth jungle clearing along channel trace, including removing outside reservation and burning .	Ac.	53,015.00
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.	5,570.00
2.2	Manual earth excavation in canals and forming canal bunds cutting and lift 0'- 5', spreading 100'.	Cu.	6,267.00
2.3	Manual Earth excavation in canals and forming bunds , cut and lift 0'-5', spread upto 100' /Cu	Cu.	6,963.00
2.4	Manual earth excavation from borrow and forming bunds , cutting and lift 0' - 5', spreading 100' .	Cu.	8,356.00
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.	7,659.00
2.6	Manual earth excavation, additional to cut and lift over 5' up to 10', spreading 100' along the bund.	Cu.	4,830.00
2.7	Manual earth excavation, additional to cut and lift over 10' up to 15', spreading 100' along the bund.	Cu.	5,238.00
2.8	Manual gravel excavation and spoil to waste or fill material , cutting and lift 0' - 5', spreading 100'.	Cu.	9,221.00
2.9	Manual soft rock excavation and spoil to waste or fill material , cutting and lift 0' - 5', spreading 100'.	Cu.	14,240.00
	<i>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.)</i>		
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.	4,728.00

2.11	Approved earth supplying within 10 Km from the source and piled at site (measured at piled volume)	Cu.	8,631.00
2.11.A	Approved earth supplying within 10 Km from the source to site (measured from levelling)	Cu.	8,445.00
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.	1,860.00
2.13	Manually spreading and levelling piled approved earth available at site rate without compaction.	Cu.	624.00
2.14	Manual haul earth/Gravel/soft rock		
	Note :-Additional for haul shall be maximum 500'		
2.14.1	Manual haul earth/Gravel/soft rock ,haul 100'in each step to max.of 300'	Cu.	1,717.00
2.14.2	Manual haul earth/Gravel/soft rock ,haul 200'in each step to max.of 300'	Cu.	3,434.00
2.14.3	Manual haul earth/Gravel/soft rock ,haul 300'in each step to max.of 300'	Cu.	5,151.00
2.14.4	Manual haul earth/Gravel/soft rock ,haul 400'in each step to max.of 300'	Cu.	6,868.00
2.14.5	Manual haul earth/Gravel/soft rock ,haul 500'in each step to max.of 300'	Cu.	8,585.00
2.15	Manual Stripping top soil		
2.15.1	Manual Stripping top soil up to 3" depth, haul up to 100'.	Sqr.	2,091.00
2.15.2	Stripping top soil by machinery up to 3" depth, and spoil to waste.	Sqr.	129.00
2.16	Manual Scraping top vegetation , haul up to 100'.	Sqr.	312.00
2.17	Manual Forming puddle core wall , including compacting (Maudling) of puddle and solid mass including cutting clay. excluding transport.	Cu.	18,727.00
2.18	Manual Placing and compacting earth in canal/ backfill including watering , including picking roots & spreading.	Cu.	1,860.00
2.19	Furnishing , Planting and Watering turf (Full turfing) , excluding haul.	Sqr.	10,472.00
2.20	Furnishing , Planting and Watering turf (Strip turfing) , excluding haul.	Sqr.	5,234.00
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.	16,097.00
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.	15,599.00
2.23	Additional for haul of material for rubble		
	Note :-Additional for haul shall be maximum 500'		
2.23.1	Additional for haul of materiel for rubble in each step of 100'.	Cu.	2,572.00
2.23.2	Additional for haul of materiel for rubble in each step of 200'.	Cu.	5,144.00

2.23.3	Additional for haul of materiel for rubble in each step of 300'.	Cu.	7,716.00
2.23.4	Additional for haul of materiel for rubble in each step of 400'.	Cu.	10,288.00
2.23.5	Additional for haul of materiel for rubble in each step of 500'.	Cu.	12,860.00
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.	47,394.00
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.	1,765.00
3A.2	Removal of water-hycinths and deposit as directed. (Manual)	Sqr.	630.00
3A.3	Uprooting shrub jungle in canals and / or canal reservations including removing out side reservation and burning , height 2' - 3' (Manual)	Sqr.	914.00
3A.4	Uprooting shrub jungle in canals and / or canal reservations including removing out side reservation and burning , height over 3' (Manual)	Sqr.	1,576.00
3B	EARTH EXCAVATION IN CANAL BY MACHINERY.		
	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.	473.00
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 deposited on bunds. Fill material cut 5' - 10'. lift up to 10ft.spreading 100 ft. Machine transport will be paid seperately	Cu.	478.00
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 deposited on bunds. Fill material cut 10' - 15'. lift up to 15ft.spreading 100 ft.	Cu.	500.00
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.	503.00
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.	476.00
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.	597.00

04	REINFORCEMENT		
4.1	Tor steel reinforcement cutting , bending to shape laid in position and tied with 16 B.W.G. binding wire	Kg.	493.00
4.2	Mild steel reinforcement cutting , bending to shape laid in position and tied with 16 B.W.G. binding wire	Kg	493.00
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.	1,217.00
05	FORM WORK		
5.1	Furnishing, making, fixing and removing formwork for sides of foundation using 1" thick rubber planks , excluding transport (for 2 users)	Sqr.	10,744.00
5.2	Furnishing and making formwork using 1" thick timber shuttering planks for each of two uses including fixing and removing same once, excluding transport	Sqr.	14,694.00
5.3	Furnishing and making formwork using 1" thick timber shuttering planks for one use including fixing and removing , excluding transport	Sqr.	14,353.00
5.4	Furnishing and making formwork using 15 mm thick plywood for each of 2 uses including fixing and removing, excluding transport	Sqr.	19,514.00
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.	20,809.00
06A	CONCRETE		
6A.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.	84,568.00
6A.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.	87,287.00
6A.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.	103,737.00
6A.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.	111,035.00
6A.5	Additional lift of concrete over 5' up to 10'	Cu.	4,172.00
6A.6	Additional for haul of materiel for concrete		
	Note :-Additional for haul shall be maximum 500'		
6A.6.1	Additional for haul of materiel for concrete in each step of 100'.	Cu.	4,046.00

6A.6.2	Additional for haul of materiel for concrete in each step of 200'.	Cu.	8,092.00
6A.6.3	Additional for haul of materiel for concrete in each step of 300'.	Cu.	12,138.00
6A.6.4	Additional for haul of materiel for concrete in each step of 400'.	Cu.	16,184.00
6A.6.5	Additional for haul of materiel for concrete in each step of 500'.	Cu.	20,230.00
06B	READY MIX CONCRETE		
6B.1	Requirement for Ready mixed concrete		
	(i) Ready mix concrete is confirming to SLS 1144-1997.		
	(ii) Minimum cement content shall be 300 kg/m3		
	(iii) Nominal maximum size of aggregate shall be 20mm.		
	(iv) Slump shall be as per the mix design.		
	(v) Maximum temperature 300C		
	(vi) Maximum free water / cement ratio to be 0.5		
	(vii) Coarse and Fine aggregate used shall confirm to BS 882 latest version. Seive analysis reports within 6 months should be submitted for approval .		
	(viii) Concrete grade shall be as specified.		
	(ix) Concrete mix design shall be approved by the District Irrigation Engineer .		
	(x) The Ready mix supplier's plant should have been calibrated in the recent past.		
	(xi) Admixtures should be compatible with the cement and it should be confirmed by Admixture supplier and Cement supplier.		
	(xii) Testing		
	(xiii) Collection of samples for testing shall be at the point of placing. One sample per 5m ³		
6B.2	Rate include the transport of 20km from batching plant		
6B.2.1	Supplying Ready mix concrete of grade 15 (15 N/mm2 to the site.	m3	26,070.00
6B.2.2	Supplying Ready mix concrete of grade 20 (20 N/mm2 to the site.	m3	28,292.00
6B.2.3	Supplying Ready mix concrete of grade 25(25 N/mm2) to the site.	m3	29,222.00
6B.2.4	Supplying Ready mix concrete of grade 30(30 N/mm2) to the site.	m3	30,344.00
6B.2.5	Transport charges per Km per 5m3 truck load for over and above 20 km.	Km/truck	360.00
6B.2.6	Placing , levelling & compacting the pumpable concrete.	m3	480.00
6B.2.7	Pumping charge for quantities up to 30 m3 .	ITEM	49,500.00
6B.2.8	For more than 30m3 additiona lpumping charges. (Rate for every m3 over and above 30m3)	m3	1,650.00

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.	65,671.00
7.2.	Additional for haul of materiel for rubble masonry		
	Note :-Additional for haul shall be maximum 500'		
7.2.1	Additional for haul of materiel for rubble masonry in each step of 100'.	Cu.	3,670.00
7.2.2	Additional for haul of materiel for rubble masonry in each step of 200'.	Cu.	7,340.00
7.2.3	Additional for haul of materiel for rubble masonry in each step of 300'.	Cu.	11,010.00
7.2.4	Additional for haul of materiel for rubble masonry in each step of 400'.	Cu.	14,680.00
7.2.5	Additional for haul of materiel for rubble masonry in each step of 500'.	Cu.	18,350.00
7.3	6"-9" Random Rubble masonry in 1:5 ct.mr. lift 0' - 5' , rubble available at site .	Cu.	59,034.00
7.4	6"-9" Random rubble pitch paving along bund ,(This rate shall be applicable for transport of rubble T-T/Lorry)	Sqr.	17,037.00
7.5	6"-9" Random rubble pitch paving along bund , rubble available at site .	Sqr.	5,274.00
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.	12,783.00
8.2	3/4" thick semi rough cement plastering 1:3 cement, sand mixture, (transport of cement and sand T-T/Lorry) .	Sqr.	16,667.00
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.	1,541.00
9A.2	Furnish, lay and joint 9" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	2,650.00
9A.3	Furnish, lay and joint 12" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	3,242.00
9A.4	Furnish, lay and joint 15" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	3,928.00
9A.5	Furnish, lay and joint 18" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	4,398.00
9A.6	Furnish, lay and joint 24" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	6,118.00
9A.7	Furnish, lay and joint 30" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	6,450.00
9A.8	Furnish, lay and joint 36" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	9,776.00
9A.9	Furnish, lay and joint 48" RCC Hume pipes, including trenching & backfill, excluding transport .	Lft.	15,768.00

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.	1,454.00
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.	1,888.00
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.	2,488.00
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.	2,981.00
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.	3,161.00
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.	4,061.00
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.	5,021.00
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.	5,395.00
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.	25,030.00
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.	14,340.00
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.	3,870.00
11	MISCELLANEOUS		
11.1	Furnishing 2" brass padlock and handing over.	Nr.	1,800.00
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.	426.00

11.3	Furnishing 1" dia. 3' long steel chain as a locking arrangement for the operating wheel .	Nr.	2,520.00
11.4	Pumping water using 2" dia. Water pump , (Wet basin with operator.) .	Per day	4,320.00
11.5	Coffer damming using sand with large size polysack bags including placing and removing .	Nr.	374.00
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.) including one side packing pebbles in soil as a filter.	Lft.	605.00
11.7	Hire charges for T-T (Wet Lease basis including operator) .	per day	12,000.00
11.8	Making temporary shed (size 10' x10') during construction/ repairing period & removing.	Nr.	9,660.00
12	Transport cost for haul earth / sand / gravel by T-T including loading		
12.1	Up to 1 Km.	Per Cu.	1,868.40
12.2	Up to 2 Km.	Per Cu.	1,994.40
12.3	Up to 3 Km.	Per Cu.	2,120.40
12.4	Up to 4 Km.	Per Cu.	2,246.40
12.5	Up to 5 Km.	Per Cu.	2,372.40
12.6	Up to 6 Km.	Per Cu.	2,498.40
12.7	Up to 8 Km.	Per Cu.	2,750.40
12.8	Up to 10 Km.	Per Cu.	3,002.40
12.9	Up to 15.00 Km.	Per Cu.	3,632.40
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.	12,826.00
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.	4,781.00
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 greesing to threading part of rod & bush .Excluding transport.	Sqft.	4,557.00

15	Demolishing & Clearing		
15.1	Demolishing reinforced cement concrete removing reinforcement and Clearing or stacking.	Cu.	25,123.00
15.2	Demolishing cement concrete and Clearing or stacking.	Cu.	18,819.00
15.3	Demolishing rubble masonry in cement and sand,stacking rubble and Clearing debries away.	Cu.	7,834.00
15.4	Chipping cement plaster and Clearing debries away.	Sqr.	2,341.00
16	TESTING CHARGES		
	<i>1.The following laboratory test rates are applicable when it is necessary to direct additional testing over and above the minimum testing specified in the specifications.</i>		
	<i>2.Please note that no payment should be made for testing mentioned in specification.</i>		
	<i>3.When tests are carried out in the field, transport charges shall be added in addition to the testing charges.</i>		
16.1	TESTING OF CONCRETE		
16.1.1	Slump Test of Concrete	Per Test	885.00
16.1.2	Casting of Concrete Cubes (3 Cubes)	Per Test	2,058.00
16.1.3	Compressive Strength of Concrete Cubes	Per Test	851.00
16.1.4	Rental for casting Mould (1 Mould)	Per Test	281.00
16.2	TESTING OF AGGREGATE		
16.2.1	Particle Size Distribution (Sieve Analysis)	Per Test	2,381.00
16.2.2	Field Density	Per Test	2,944.00
16.2.3	Modified Compaction Test	Per Test	6,174.00
16.2.4	Standard Compaction Test	Per Test	5,900.00
16.3	TESTING OF SOIL		
16.3.1	Particle Size Distribution (Sieve Analysis)	Per Test	2,388.00
16.3.2	Consistency Limit Test	Per Test	3,629.00
16.3.3	Field Density	Per Test	2,166.00
16.3.4	California Bearing Ratio (CBR)	Per Test	4,968.00
16.3.5	Modified Compaction Test	Per Test	4,684.00
16.3.6	Standard Compaction Test	Per Test	4,440.00
16.4	TESTING OF REINFORCEMENT		
16.4.1	Rate for testing ofT or-steel specimen of 1m length for mechanical properties at an approved laboratory	Per Sample	3,990.00

16.5	TESTING OF TIMBER		
16.5.1	Testing of a timber sample for identification from the Timber corporation laboratory.	Per Test	2,520.00
16.6	<i>When tests are carried out in the field, transport charges shall be added in addition to the testing charges.</i>		
16.6.1	Transport charges for testing	Per Km.	48.00
17	SURVEYING		
17.1	Medium jungle clearing for surveying work, 4 ft .wide.	Mile	23,113.00
17.2	Light jungle clearing for surveying work, 4 ft .wide.	Mile	16,179.00
17.3	Chaining inclusive of cutting jungle pegs and pegging.	Mile	4,334.00
17.4	Levelling every 100ft. Establishing bench marks on rock or tree and checking back.	Mile	8,667.00
17.5	Surveying including fixing angle pickets and taking angles .	Mile	8,667.00
17.6	Chaining traverse line and taking off sets .	Mile	11,557.00
17.7	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (400' x 400')	Nr.	28,892.00
17.8	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (200' x 200 ')	Nr.	7,223.00
17.9	Detail site surveys - breaches, spill site etc., including spot levels, chaining, pegging and establishing bench mark (100' x 100')	Nr.	1,806.00

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PRICE LIST FOR ISR - 2024			
ITEM NO.	DESCRIPTION	UNIT	PRICE (excluding VAT)
	<u>MASONRY</u>		
1	Cement - 50kg bags of Portland composite cement complying to S.L.S.1697,Strength class - 42.5 N (including around 16km transport)	Nr.	2,260.00
2	Rubble 6" x 9" (including around 16 km transport with loading & unloading)	Cube	10,850.00
3	River Sand (including around 16 km transport with loading & unloading)	Cube	26,500.00
4	Metal 1/2" (including around 16 km transport with loading & unloading)	Cube	12,500.00
5	Metal 3/4" (including around 16 km transport with loading & unloading)	Cube	12,500.00
6	Metal 1" (including around 16 km transport with loading & unloading)	Cube	12,350.00
7	Metal 1 1/2" (including around 16 km transport with loading & unloading)	Cube	12,170.00
8	Quary Dust (including around 16 km transport with loading & unloading)	Cube	13,000.00
9	Aggregate Base Course (ABC)- graded 37.5 mm. (excluding transport)	Cube	13,350.00
10	Drinking Water	1Lt.	0.56
	<u>STEEL</u>		
11	Tor steel -SLS 375 (including transport)	kg.	296.00
12	Mild steel -SLS 375 (including transport)	kg.	296.00
13	Binding wire 18G (25 Kg. roll)	kg.	176.40
14	25 x 25 x 5mm Angle iron	L.ft	137.00
15	38 x 38 x 5mm Angle iron	L.ft	228.00
16	50 x 50 x 6mm Angle iron	L.ft	347.00
17	65 x 65 x 6mm Angle iron	L.ft	478.00
18	75 x 75 x 6mm Angle iron	L.ft	565.00
19	100 x 50 x 6 mm - Channel Iron	L.ft	885.00
20	125 x 65 x 6mm Channel iron	L.ft	1,427.00
21	150 x 75 x 6mm Channel iron	L.ft	1,800.00
22	Steel Wire nails 1"	kg.	284.50
23	Steel Wire nails 1 1/2"	kg.	284.50
24	Steel Wire nails 2"	kg.	282.50
25	Steel Wire nails 3"	kg.	280.00
26	Steel Wire nails 5"	kg.	280.00
27	6mm dia. M.S.Rod	L.ft	19.00
28	5mm thick M.S.Plate (8' X 4')	Sqft	1,064.00
29	10mm thick M.S. Plate (8' X 4')	Sqft	1,885.00
30	12mm thick M.S. Plate (8' X 4')	Sqft	2,555.00
31	1" dia. Steel chain	L.ft	700.00

32	2" x 1/4" Flat iron	L.ft	180.00
33	20 x 5mm Flat iron	L.ft	64.00
34	GI Pipe - 3/4" dia. x 1.8 mm thick	L.ft	116.00
35	GI Pipe - 1" dia. x 2mm. thk.	L.ft	152.00
36	GI Pipe - 1 1/2" dia. x 2.3mm thick	L.ft	250.00
37	GI Pipe - 2" dia. 2.3mm. thk.	L.ft	326.00
38	GI Pipe - 2 1/2" dia. X2.6mm thick	L.ft	480.00
39	GI Pipe - 3" dia. x 2.9mm thick	L.ft.	647.00
40	(3/4" x 3/4") 1.6mm. thk. Hollow Section	L.ft	87.00
41	Pop rivert	Nr.	3.00
42	1/4" dia. 2 1/2" long nut & bolt	Nr.	90.00
43	Timber 2"x 1" class 11-for shuttering	L.ft	20.00
44	Timber 2"x 2" class 11-for shuttering	L.ft	50.00
	<u>HUME PIPE (R.C.C)</u>		
45	04" Dia. X 8'-0"	Nr.	Deleted
46	06" Dia. X 8'-0"	Nr.	7,025.00
46.1	06" Dia. X 4'-0"	Nr.	3,512.00
47	09" Dia. X 8'-0"	Nr.	12,700.00
47.1	09" Dia. X 4'-0"	Nr.	6,360.00
48	12" Dia. X 8'-0"	Nr.	15,100.00
48.1	12" Dia. X 4'-0"	Nr.	7,560.00
49	15" Dia. X 8'-0"	Nr.	19,000.00
49.1	15" Dia. X 4'-0"	Nr.	9,500.00
50	18" Dia. X 8'-0"	Nr.	20,400.00
50.1	18" Dia. X 4'-0"	Nr.	10,200.00
51	24" Dia. X 8'-0"	Nr.	29,000.00
51.1	24" Dia. X 4'-0"	Nr.	14,500.00
52	30" Dia. X 8'-0"	Nr.	28,000.00
52.1	30" Dia. X 4'-0"	Nr.	14,200.00
53	36" Dia. X 8'-0"	Nr.	48,200.00
53.1	36" Dia. X 4'-0"	Nr.	24,000.00
54	42" Dia. X 8'-0"	Nr.	Deleted
54.1	42" Dia. X 4'-0"	Nr.	Deleted
55	48" Dia. X 8'-0"	Nr.	81,200.00
55.1	48" Dia. X 4'-0"	Nr.	40,500.00
	<u>HUME PIPE COLLARS (R.C.C)</u>		
56	06" Dia.	Nr.	1,150.00
57	09" Dia.	Nr.	1,450.00
58	12" Dia.	Nr.	1,950.00
59	15" Dia.	Nr.	2,300.00
60	18" Dia.	Nr.	2,450.00
61	24" Dia.	Nr.	3,200.00
62	30" Dia.	Nr.	4,000.00
63	36" Dia.	Nr.	4,250.00
64	42" Dia.	Nr.	Deleted
65	48" Dia.	Nr.	Deleted

	<u>Timber</u>		
66	Specified timber "Kumbuk"	Cuft	17,408.00
67	Specified timber " Naa, Mee"	Cuft	8,500.00
68	Plywood ordinary 12mm thick (8'x4')	Sqft	131.00
69	Plywood ordinary 15mm thick (8'x4')	Sqft	153.00
70	Rubber planks - 3/4" thick	Sqft	68.00
71	Rubber planks - 1" thick	Sqft	85.00
72	Rubber planks - 1 1/2" thick	Sqft	100.00
73	Timber 2" x 1" Class II - for shuttering	L.ft	20.00
74	Timber 2" x 2" Class II - for shuttering	L.ft	50.00
75	Timber 4" x 2" Class II - for shuttering	L.ft	175.00
	<u>MISCELLANEOUS</u>		
76	Bitumen	1Lt.	600.00
77	Brass padlock (2")	Nr.	1,500.00
78	PVC Pipe 4" dia. (type 250)	L.ft	324.00
79	Polysack Bags (filling 65kg capacity) with transport	Nr.	40.00
80	Anticorrosive paint	1Lt.	1,628.71
81	Enamel paint	1Lt.	1,403.60
82	Emulsion paint	1Lt.	615.89
83	Wood preservative	1Lt.	755.00
84	Turf	Sqft	65.00
85	Digital print	Sqft	325.00
86	Paint Brush 1" -Jat	Nr.	214.00
87	Paint Brush 1 1/2" -Jat	Nr.	246.00
88	Paint Brush 2" -Jat	Nr.	307.00
89	Paint Brush 3" -Jat	Nr.	492.00
90	Paint Brush 4" -Jat	Nr.	758.00
91	Paint Brush 6" -Jat	Nr.	941.00
92	Sand paper	Nr.	180.00
93	Grease	Kg.	1,000.00
	<u>PLANT</u>		
94	Water pump 2" dia.(with necessary items)	Per Day	3,200.00
95	Tractor & Tailer	Per Day	10,000.00
96	Hydrolic Backhoe excavator (1Cu.yd) (output 102.2Cubes/ 8 hours)	Per Hour	4,400.00
97	Hydrolic Backhoe excavator (1Cu.yd) (output 102.2Cubes/ 8 hours) with barge PC 40	Per Hour	5,200.00
98	Concrete mixer with operator & fuel /(8 hour day)	Per Day	11,444.83
99	Vibrator / (8 hour day)	Per Day	5,396.00
100	Welding Plant / (8 hour day)	Per Day	600.00
101	Vibrating roller (1/2-1 ton) with fuel & operator	Per Day	12,134.00
	<u>VEHICLE TRANSPORT</u>		
102	Low bed tailer (first 15km)	Each	15,000.00
103	Additional 1km	Each	1,100.00

<u>LABOUR</u>			
104	Special skill Labour (Electrician,Carpenter, Plumber)/8hours	Per Day	3,750.00
105	Skill Labour - (mason, barbender etc.)/ 8 hours	Per Day	3,600.00
106	Semi skill Labour / 8 hours	Per Day	2,800.00
107	Unskill Labour / 8 hours	Per Day	2,550.00
<u>CAST IRON SLUICE GATES & COMPONENTS</u>			
108	3" (75 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	50,000.00
109	4" (100 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	50,000.00
110	6" (150 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	58,000.00
111	9" (225 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	92,000.00
112	12" (300 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	105,000.00
113	15" (375 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	135,000.00
114	18" (450 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	150,000.00
115	24" (600 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	240,000.00
116	30" (750 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	430,000.00
117	36" (900 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	590,000.00
118	40" (1000 mm.) dia. Cast iron sluice gate complete with fitting	Nr.	780,000.00
<u>CAST IRON SLUICE GATE SPARES</u>			
119	C.I. Housing & Base Plate - 3/4"	Nr.	6,000.00
120	C.I. Housing & Base Plate - 1"	Nr.	9,600.00
121	C.I. Housing & Base Plate - 1 1/4"	Nr.	9,600.00
122	C.I. Housing & Base Plate - 1 1/2"	Nr.	12,300.00
123	C.I. Housing & Base Plate - 2"	Nr.	15,000.00
124	C.I. Housing & Base Plate - 2 1/2"	Nr.	24,000.00
<u>Plate Type L Device</u>			
125	Plate Type L Device (without padlock) - 3/4"	Nr.	2,700.00
126	Plate Type L Device (without padlock) - 1"	Nr.	3,600.00
127	Plate Type L Device (without padlock) - 1 1/4"	Nr.	3,600.00
128	Plate Type L Device (without padlock) - 1 1/2"	Nr.	4,500.00
129	Plate Type L Device (without padlock) - 2"	Nr.	5,600.00
130	Plate Type L Device (without padlock) - 2 1/2"	Nr.	6,600.00
<u>Brass Nut</u>			
131	Brass Nut 04 T.P.I- 3/4"	Nr.	7,900.00
132	Brass Nut 04 T.P.I - 1"	Nr.	13,000.00
133	Brass Nut 04 T.P.I- 1 1/4"	Nr.	13,000.00
134	Brass Nut 04 T.P.I - 1 1/2"	Nr.	16,000.00
135	Brass Nut 04 T.P.I - 2"	Nr.	26,000.00
136	Brass Nut 04 T.P.I - 2 1/2"	Nr.	42,000.00
137	Brass Nut 02 T.P.I - 2"	Nr.	26,000.00
138	Brass Nut 02 T.P.I - 2 1/2"	Nr.	42,000.00

	Steel Spindle		
139	Steel Spindle - 3/4"	L.ft	1,800.00
140	Steel Spindle - 1"	L.ft	2,500.00
141	Steel Spindle - 1 1/4"	L.ft	3,000.00
142	Steel Spindle - 1 1/2"	L.ft	3,800.00
143	Steel Spindle - 2"	L.ft	6,900.00
144	Steel Spindle - 2 1/2"	L.ft	10,000.00
	Spindle Bush Welding		
145	Spindle Bush Welding - 3/4"	Nr.	600.00
146	Spindle Bush Welding - 1"	Nr.	600.00
147	Spindle Bush Welding - 1 1/4"	Nr.	600.00
148	Spindle Bush Welding- 1 1/2"	Nr.	780.00
149	Spindle Bush Welding - 2"	Nr.	890.00
150	Spindle Bush Welding - 2 1/2"	Nr.	2,500.00
	Threading		
151	Threading 04 T.P.I.- 3/4"	L.ft	950.00
152	Threading 04 T.P.I. - 1"	L.ft	1,300.00
153	Threading 04 T.P.I.- 1 1/4"	L.ft	1,400.00
154	Threading 04 T.P.I.- 1 1/2"	L.ft	1,500.00
155	Threading - 04 T.P.I. - 2"	L.ft	2,600.00
156	Threading - 04 T.P.I.- 2 1/2"	L.ft	4,000.00
157	Threading - 02 T.P.I. - 2"	L.ft	2,300.00
158	Threading - 02 T.P.I.- 2 1/2"	L.ft	4,000.00
	Operating wheel		
159	Steel Operating wheel 16" ϕ for- 3/4"	Nr.	9,600.00
160	Steel Operating wheel 16" ϕ for- 1"	Nr.	9,600.00
161	Steel Operating wheel 16" ϕ for- 1 1/4"	Nr.	9,600.00
162	Steel Operating wheel 18" ϕ for- 1 1/2"	Nr.	12,300.00
163	Steel Operating wheel 20" ϕ for- 2"	Nr.	15,000.00
164	Steel Operating wheel 24" ϕ for- 2 1/2"	Nr.	24,000.00
	STEEL RAG BOLT		
165	Steel Rag Bolt 3/4" ϕ - 1/2" x 9"	Nr.	850.00
166	Steel Rag Bolt - 1" ϕ x - 1/2" x 6"	Nr.	800.00
167	Steel Rag Bolt - 1 1/4" ϕ - 5/8" x 9"	Nr.	1,100.00
168	Steel Rag Bolt - 1 1/2" ϕ - 5/8" x 6"	Nr.	1,000.00
169	Steel Rag Bolt - 2" ϕ - 3/4" x 9"	Nr.	1,600.00
170	Steel Rag Bolt - 2 1/2" ϕ - 3/4" x 6"	Nr.	1,500.00
	STEEL BOLTS & NUT SIZES		
171	Steel Bolts & Nuts - 2" x 1/2"	Nr.	250.00
172	Steel Bolts & Nuts - 2 1/2" x 1/2"	Nr.	300.00
173	Steel Bolts & Nuts - 3" x 1/2"	Nr.	350.00

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