

# **RATES – 2025**

## **SOUTHERN PROVINCIAL IRRIGATION DEPARTMENT**





දිස්ත්‍රික් ලේකම්වරුන් / පළාත් අමාත්‍යාංශ ලේකම්වරුන්  
පළාත් දෙපාර්තමේන්තු ප්‍රධානීන් / පළාත් අධිකාරි ප්‍රධානීන්  
ආයතන ප්‍රධානීන්

**2025 වර්ෂය සඳහා අනුමත ඉදිකිරීම් රේට් මිල ගණන්**

දකුණු පළාත් මූල්‍ය රීති සංග්‍රහයේ රීති 425 අනුව, දකුණු පළාත් ප්‍රධාන ලේකම්ගේ ප්‍රධානත්වයෙන් 2024.12.18 දින පැවති පළාත් රේට් කමිටුව විසින් 2025 වර්ෂය සඳහා සකස් කර තිබෙන ගොඩනැගිලි, වාරිමාර්ග සහ මහාමාර්ග මිල ගණන් ලේඛන අනුමත කරන ලදී. අනුමත මිල ගණන් ලේඛන (BSR, ISR, HSR) ප්‍රධාන ලේකම් කාර්යාලයේ [www.cs.sp.gov.lk](http://www.cs.sp.gov.lk) වෙබ් අඩවියෙන් ලබාගත හැකිය.

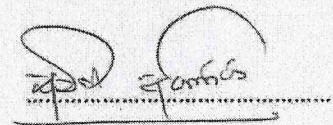
02. 2025.01.01 දින සිට සකස් කරනු ලබන ඉදිකිරීම් ඇස්තමේන්තු එම මිල ගණන් අනුව සකස් කළ යුතු බව මෙමගින් කාරුණිකව දන්වා සිටිමි.

03. මෙම මිල ගණන් ලේඛන වල සඳහන් නොමැති විශේෂ මිල ගණන් සකස් කිරීමට සිදු වන අවස්ථාවන්හිදී අදාළ විශේෂ මිල ගණන්(SSR) සහ විචලන වැඩ සඳහා අවශ්‍ය වන මිල විශ්ලේෂණ(Rate Breakdown) අනුමත කිරීමේ බලතල දකුණු පළාත් ප්‍රධාන ලේකම් (මුදල්) චක්‍රලේඛ 11/2019 ප්‍රකාරව ක්‍රියාත්මක කළ යුතුය.

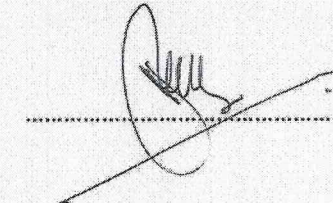
04. මෙම අනුමත මිල ගණන් ලේඛන වල මිල ගණන්වල සංශෝධනයන් සිදු කිරීමට අවශ්‍ය වුවහොත්, එම සංශෝධන පළාත් රේට් කමිටු ලේකම් විසින් අවශ්‍ය අවස්ථාවන්හිදී දැනුවත් කිරීමට කටයුතු කරනු ඇත.

පළාත් රේට් කමිටුව  
2024.12.18 වන දින

සභාපති ප්‍රධාන ලේකම්, දකුණු පළාත



සාමාජික නියෝජ්‍ය ප්‍රධාන ලේකම්  
(ඉංජිනේරු සේවා), දකුණු පළාත





සාමාජික නියෝජ්‍ය ප්‍රධාන ලේකම් (මූල්‍ය කළමනාකරණ), දකුණු පළාත

සාමාජික නියෝජ්‍ය ප්‍රධාන ලේකම් (සැලසුම්), දකුණු පළාත

සාමාජික පළාත් වාරිමාර්ග අධ්‍යක්ෂ, දකුණු පළාත් වාරිමාර්ග දෙපාර්තමේන්තු

සාමාජික සාමාන්‍යාධිකාරී, දකුණු පළාත් මාර්ග සංවර්ධන අධිකාරිය

සාමාජික ඉංජිනේරු, පළාත් පාලන දෙපාර්තමේන්තුව, දකුණු පළාත


සාමාජික නියෝජිත, මාර්ග සංවර්ධන අධිකාරිය

ලේකම් අධ්‍යක්ෂ (ඉංජිනේරු) / පළාත් ගොඩනැගිලි අධ්‍යක්ෂ



Rates for Survey			
Item code	Description	Unit	Rate 2025
SPID/SUR/01	Heavy jungle clearing along survey line 4'-0" (1.2m) wide	km	23,125.00
SPID/SUR/02	Medium jungle clearing along survey line 4'-0" (1.2m) wide	km	15,416.00
SPID/SUR/03	Light jungle clearing along survey line 4'-0" (1.2m) wide	km	11,562.00
SPID/SUR/04	Secondry growth jungle clearing along survey line 4'-0" (1.2m) wide 50% of Light jungle clearing	km	5,781.00
SPID/SUR/05	Shrub jungle clearing along survey line 4'-0" (1.2m) wide 50% Light jungle clearing	km	8,672.00
SPID/SUR/06	Survey excluding off setting - 1.5 km/day	km	6,050.00
SPID/SUR/07	Survey including off setting - 0.75 km/day	km	12,100.00
SPID/SUR/08	Levelling L.S at 30m intervals/change of grade establish B.MM & fly back 1.5km/day	km	6,050.00
SPID/SUR/09	Levelling L.S at 30m intervals/change of grade establish B.MM & the fly back inclusive of chaining , cutting jungle pegs and pegging 1 km/day	km	9,075.00
SPID/SUR/10	Levelling L.S and C.SS(less than 15m on either side of centre line) at 30m intervals/change of grade establish B.MM & the fly back 1 km/day	km	9,075.00
SPID/SUR/11	Levelling L.S and C.SS (Less than 15 m on either side of centre line) at 30m intervals/change of grade establish B.MM & fly back inclusive of chaining , cutting jungle pegs and pegging 0.75km/day	km	12,100.00
SPID/SUR/12	Levelling L.S and C.S (More than 15 m but less than 30m on either side of centre line) at 30m intervals/change of grade establish B.MM & fly back 0.75km/day	km	12,100.00
SPID/SUR/13	Levelling L.S and C.S (More than 15 m but less than 30m on either side of centre line) at 30 m intervals/change of grade, establish B.MM and fly back inclusive of chaining, cutting jungle pegs and pegging 0.5 km/days	km	18,150.00
SPID/SUR/14	Site survey for structures including all details 0.40 Ha/day	Ha	22,688.00

Prepared by:



D.P. Kokila  
Drawing Office Assistant

Recommended by:



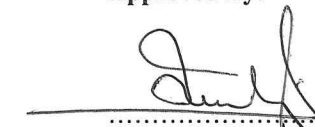
L.V.D. Sanjeewa  
Chief Irrigation Engineer

Checked By :



N.P.I. Madushanka  
Design Engineer

Approved By:



D.N.W. Dissanayake  
Provincial Director of Irrigation

**Eng.D.N.W.Dissanayake**  
Provincial Director of Irrigation  
Provincial Irrigation Department  
Southern Province



### Rates for Maintenance

Item Code	Description	Unit	Rate 2025
SPID/MAIN /01	Shrub jungle clearing along the channel bund and removing out side of the reservation and burning (by manually)	m <sup>2</sup>	52.00
SPID/MAIN /02	Secondary growth clearing along the channel bund removing out side of the reservation & burning by manually	m <sup>2</sup>	34.00
SPID/MAIN /03	Weeding along the channel bund, Removing out side of the reservation & burning (By manually)	m <sup>2</sup>	15.00
SPID/MAIN /04	Desilting along the drainage channel lift 0'-5' houl 0'-100' (By manually)	m <sup>3</sup>	2,234.00
SPID/MAIN /05	Removal of water plants in channel and throw out of the reservation & burning (By manually)	m <sup>2</sup>	31.00
SPID/MAIN /06	Clearing side of drains in channel system including removal the obstacals, Plants throw out the reservation & burning (By manually)	m <sup>3</sup>	2,731.00
SPID/MAIN /07	Cutting sand bar by manually (without profit) For 1 Cu	m <sup>3</sup>	3,072.00
SPID/MAIN /08	Scrafig top surface of the bund (By manually)	m <sup>2</sup>	94.00
SPID/MAIN /09	Stripping top soil to a depth of 3" removal all roots and throw out of the reservation and burning (By manually)	m <sup>3</sup>	2,731.00
SPID/MAIN /10	Channel clearing including removal of water plants, suspended matter deposited and dump out of the reservation by manually	m <sup>2</sup>	130.00
SPID/MAIN /11	Formation of channel bund using dredge materials including ,placing ,Shaping &Compacting by manually	m <sup>3</sup>	768.00

**Prepared by:**



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Samantha Gunasekara  
Engineer Assistanat

**Recommended by:**



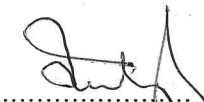
.....  
L.V.D. Sanjeewa  
Chief Irrigation Engineer

**Checked By :**



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N.P.I. Madushanka  
Design Engineer

**Approved By:**



.....  
D.N.W. Dissanayake  
Provincial Director of Irrigation

**Eng.D.N.W.Dissanayake**  
Provincial Director of Irrigation  
Provincial Irrigation Department  
Southern Province



### Rates for Construction Work

Item code	Description	Unit	Rate 2025
SPID/CON/A/01	Shrub jungle clearing along channel bund in or borrow area by manually.	$m^2$	52.00
SPID/CON/A/02	Light jungle clearing along channel bund in or borrow area by manually	$m^2$	69.00
SPID/CON/A/03	Medium jungle clearing along channel bund in or borrow area by manually.	$m^2$	95.00
SPID/CON/A/04	Heavy jungle clearing along channel bund in or borrow area by manually.	$m^2$	125.00
SPID/CON/A/05	Secondary growth clearing along channel bund in or borrow area by manually.	$m^2$	34.00
SPID/CON/A/06	Felling of isolated Trees (0 m– 1.5m) girth, cutting branches using chainsaw and removing out side of reservation by manually (dia = 1.6ft)(dia = 0.48m)	No.	4,079.00
SPID/CON/A/07	Felling of Isolated Trees (1.5m - 3.0m) girth, cutting branches using chainsaw and removing out side reservation by manually	No.	14,358.00
SPID/CON/A/08	Felling of Isolated Trees (3.0m - 4.5m) girth, cutting branches using chainsaw and removing out side reservation by manually	No.	33,195.00
<b>B - Demolition</b>			
SPID/CON/B/01	Demolishing & removing existing 1:3:6 cement concrete parts by manually	$m^3$	10,445.00
SPID/CON/B/02	Demolishing & removing existing 1:2:4 cement concrete parts by manually	$m^3$	22,956.00
SPID/CON/B/03	Demolishing & removing existing random rubble masonry wall parts by manually	$m^3$	3,840.00
<b>C - Earthwork</b>			
SPID/CON/C/01	Stripping top soil, cut and lift 0 m-1.5 m haul 30m by manually.	$m^3$	2,731.00
SPID/CON/C/02	Supply earth and transport 1/4 mile by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	2,714.00
SPID/CON/C/03	Supply earth and transport 1/2mile by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	2,820.00
SPID/CON/C/04	Supply earth transport 3/4mile by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	2,927.00
SPID/CON/C/05	Supply earth and transport 1 mile by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	3,033.00
SPID/CON/C/06	Supply earth and transport 1 1/4 miles by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	3,140.00



SPID/CON/C/07	Supply earth and transport 1 1/2 miles by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	<b>3,246.00</b>
SPID/CON/C/08	Supply earth and transport 1 3/4 miles by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	<b>3,352.00</b>
SPID/CON/C/09	Supply earth and transport 2 miles by tipper / lorry placing, spreading by backhoe loader and compacting by 8T roller watering to be done as per Engineers instructions	$m^3$	<b>3,459.00</b>
SPID/CON/C/10	Earth Excavation, spoil for bund / back fill / dump, cut & lift (0 - 1.5m), haul 30m by manually	$m^3$	<b>3,234.00</b>
SPID/CON/C/11	Earth Excavation, spoil for bund / back fill / dump, cut & lift 0 - 1.5m no haul by manually	$m^3$	<b>2,551.00</b>
SPID/CON/C/12	Earth Excavation, spoil for bund / back fill / dump, cut & lift 1.5 - 3.0m, haul 30m by manually	$m^3$	<b>5,124.00</b>
SPID/CON/C/13	Gravel Excavation, spoil for dump/pile, cut & lift 0 - 1.5m, haul 30m by manually	$m^3$	<b>3,955.00</b>
SPID/CON/C/14	Gravel excavation from borrow area and placing, spreading & compaction, haul 30m by manually	$m^3$	<b>4,447.00</b>
SPID/CON/C/15	Earth excavation and 20% back filling, including, watering, cut & lift 0 - 1.5m, haul 30m by manually	$m^3$	<b>3,397.00</b>
SPID/CON/C/16	Earth excavation and 20% back filling, including, watering, cut & lift, 1.5m - 3m, haul 30m by manually	$m^3$	<b>5,287.00</b>
SPID/CON/C/17	Earth excavation and 40% back filling including watering, cut & lift 0 - 1.5m, haul 30m by manually	$m^3$	<b>3,537.00</b>
SPID/CON/C/18	Earth excavation and 40% back filling, including watering, cut & lift (1.5 - 3.0m) haul 30m by manually	$m^3$	<b>5,427.00</b>
SPID/CON/C/19	Supplying & filling of sand, up to designed bed level, due to uneven surface of the canal bed by manually	$m^3$	<b>9,204.00</b>
SPID/CON/C/20	Placing & compaction earth in dam/embankment including watering by manually	$m^3$	<b>777.00</b>
SPID/CON/C/21	Placing & compacting earth in canal bund/ backfill including watering by manually	$m^3$	<b>722.00</b>
SPID/CON/C/22	Turfing in tank bund slopes /channel bund slopes ,watering till turf take roots, including loading / unloading without local transport	$m^2$	<b>266.00</b>
SPID/CON/C/23	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by tractor (1km transport )	$m^2$	<b>545.00</b>



SPID/CON/C/24	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by lorry (1km transport )	$m^2$	<b>616.00</b>
SPID/CON/C/25	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by tractor (2km transport )	$m^2$	<b>554.00</b>
SPID/CON/C/26	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by lorry (2km transport )	$m^2$	<b>633.00</b>
SPID/CON/C/27	Turfing in tank bund slopes/ channel bund slopes, watering till turf take roots, including loading / unloading with local transport by tractor (3km transport )	$m^2$	<b>564.00</b>
SPID/CON/C/28	Turfing in tank bund slopes/ channel bund slopes, watering till turf take roots, including loading / unloading with local transport by lorry (3km transport )	$m^2$	<b>651.00</b>
SPID/CON/C/29	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by tractor (4km transport )	$m^2$	<b>573.00</b>
SPID/CON/C/30	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by lorry (4km transport )	$m^2$	<b>668.00</b>
SPID/CON/C/31	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by tractor (5km transport )	$m^2$	<b>583.00</b>
SPID/CON/C/32	Turfing in tank bund slopes/channel bund slopes, watering till turf take roots, including loading / unloading with local transport by lorry (5km transport )	$m^2$	<b>686.00</b>
SPID/CON/C/33	Suppling, Placing, Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 1 km transport by tipper / lorry (consider 1 sq )	$m^2$	<b>1,840.00</b>
SPID/CON/C/34	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 1¼ km transport by tipper / lorry (consider 1sq)	$m^2$	<b>1,844.00</b>
SPID/CON/C/35	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 1½km transport by tipper / lorry (consider 1 sq )	$m^2$	<b>1,848.00</b>
SPID/CON/C/36	Suppling, Placing Planting turfis in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 1¾m transport by tipper / lorry (consider 1 sq )	$m^2$	<b>1,853.00</b>
SPID/CON/C/37	Suppling, Placing Planting turfsin tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 2 km transport by tipper / lorry (consider 1 sq )	$m^2$	<b>1,857.00</b>



SPID/CON/C/38	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 2¼ km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,861.00</b>
SPID/CON/C/39	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 2½km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,866.00</b>
SPID/CON/C/40	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 2¾km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,870.00</b>
SPID/CON/C/41	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 3 km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,875.00</b>
SPID/CON/C/42	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 3¼ km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,879.00</b>
SPID/CON/C/43	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 3½ km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,883.00</b>
SPID/CON/C/44	Suppling, Placing Planting turfs in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 3¾ km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,888.00</b>
SPID/CON/C/45	Suppling, Placing Planting turfis in tank bund slopes / channel bund slopes watering till turf take roots (W/O turf cutting loading) including unloading and 4 km transport by tipper / lorry (consider 1 sq )	m <sup>2</sup>	<b>1,892.00</b>
SPID/CON/C/46	Earth excavation foundation, 0' - 5' ,haul 100' by manually	m <sup>3</sup>	<b>3,234.00</b>
SPID/CON/C/47	Earth excavation foundation 0' - 5' no haul by manually	m <sup>3</sup>	<b>2,551.00</b>
SPID/CON/C/48	Earth excavation from borrow area and forming channel bund, including placing, compacting & watering cut & lift 0'- 5' haul 200' by manually	m <sup>3</sup>	<b>3,794.00</b>
SPID/CON/C/49	Earth excavation from borrow area forming channel bund including placing, compacting & watering, no haul by manually	m <sup>3</sup>	<b>2,429.00</b>
SPID/CON/C/50	Earth excavation from paddy fields, including placing, compacting without watering, cut & lift 0'-5' no haul by manually	m <sup>3</sup>	<b>3,088.00</b>
SPID/CON/C/51	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1/4 mile transport by tractor	m <sup>3</sup>	<b>2,746.00</b>
SPID/CON/C/52	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1/4 mile transport by lorry	m <sup>3</sup>	<b>2,992.00</b>



SPID/CON/C/53	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1/2 mile transport by tractor	m <sup>3</sup>	2,789.00
SPID/CON/C/54	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1/2 mile transport by lorry	m <sup>3</sup>	3,074.00
SPID/CON/C/55	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 3/4 mile transport by tractor	m <sup>3</sup>	2,833.00
SPID/CON/C/56	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 3/4 mile transport by lorry	m <sup>3</sup>	3,156.00
SPID/CON/C/57	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 mile transport by tractor.	m <sup>3</sup>	2,877.00
SPID/CON/C/58	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 mile transport by lorry.	m <sup>3</sup>	3,237.00
SPID/CON/C/59	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 1/4 mile transport by tractor .	m <sup>3</sup>	2,921.00
SPID/CON/C/60	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 1/4 mile transport by lorry	m <sup>3</sup>	3,319.00
SPID/CON/C/61	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 1/2 mile transport by tractor	m <sup>3</sup>	2,965.00
SPID/CON/C/62	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 1/2 mile transport by lorry	m <sup>3</sup>	3,401.00
SPID/CON/C/63	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 3/4 mile transport by tractor	m <sup>3</sup>	3,009.00
SPID/CON/C/64	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 1 3/4 mile transport by lorry	m <sup>3</sup>	3,483.00
SPID/CON/C/65	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 2 mile transport by tractor .	m <sup>3</sup>	3,053.00
SPID/CON/C/66	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 2 mile transport by lorry .	m <sup>3</sup>	3,565.00
SPID/CON/C/67	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 2 1/4 mile transport by tractor.	m <sup>3</sup>	3,096.00
SPID/CON/C/68	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 2 1/4 mile transport by lorry.	m <sup>3</sup>	3,647.00
SPID/CON/C/69	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 2 1/2 mile transport by tractor.	m <sup>3</sup>	3,140.00
SPID/CON/C/70	Earth excavation from borrow area & forming canal bund including placing, watering, compacting & 2 1/2 mile transport by lorry.	m <sup>3</sup>	3,729.00
SPID/CON/C/71	Forming canal bund using dredge materials, including placing, compacting manually.	m <sup>3</sup>	768.00
SPID/CON/C/72	Picking roots in dam embankment/ canal/ backfilling by manually	m <sup>3</sup>	82.00
SPID/CON/C/73	Earth spreading in dam embankment/ canal/ backfilling by manually	m <sup>3</sup>	307.00
SPID/CON/C/74	Earth compaction in dam embankment excluding watering by manually	m <sup>3</sup>	351.00
SPID/CON/C/75	Earth compaction in canal/backfilling excluding watering by manually	m <sup>3</sup>	307.00
SPID/CON/C/76	Watering for compaction of dam embankment	m <sup>3</sup>	37.00
SPID/CON/C/77	Watering for compaction in canal / backfill	m <sup>3</sup>	24.00



<b>D – From work</b>			
SPID/CON/D/01	12mm thick plywood furnishing, making smooth form work each of 3 uses including fixing and removing	$m^2$	<b>3,636.00</b>
SPID/CON/D/02	15mm thick plywood furnishing, making smooth form each 03 uses including fixing and removing	$m^2$	<b>3,672.00</b>
SPID/CON/D/03	Timber shoring for excavation ( class III )	$m^2$	<b>1,063.00</b>
<b>E-Reinforcement</b>			
SPID/CON/E/01	Furnishing , cutting , bending & placing tor steel reinforcement	$kg$	<b>495.00</b>
SPID/CON/E/02	Furnishing , cutting , bending & placing mild steel reinforcement	$kg$	<b>460.00</b>
SPID/CON/E/03	Supplying & fixing 16 mm dia 450 mm long tor steel dowels including drilling and grouting. (dowel length 450 mm)	$No.$	<b>1,428.00</b>
SPID/CON/E/04	Supplying & fixing 20 mm dia 450 mm long tor steel dowels including drilling and grouting. (dowel length 450 mm)	$No.$	<b>1,590.00</b>
SPID/CON/E/05	Supplying & fixing 25 mm dia 450 mm long tor steel dowels including drilling and grouting. (dowel length 450 mm)	$No.$	<b>1,841.00</b>
SPID/CON/E/06	Supplying & fixing 12 mm dia 450 mm long tor steel dowels including drilling and grouting. (dowel length 450 mm)	$No.$	<b>1,302.00</b>
<b>F- Concrete work</b>			
SPID/CON/F/01	1:4:8 (40 mm) cement concrete excluding form work, by manually including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>31,889.00</b>
SPID/CON/F/02	1:4:8 (40 mm) cement concrete excluding form work, by mixer including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>27,745.00</b>
SPID/CON/F/03	1:3:6 (40 mm) cement concrete by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>33,268.00</b>
SPID/CON/F/04	1:3:6 (40 mm) cement concrete by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport, excluding form work.	$m^3$	<b>29,124.00</b>
SPID/CON/F/05	1:3:6 (40 mm) cement concrete by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport, including form work.	$m^3$	<b>40,498.00</b>
SPID/CON/F/06	1:3:6 (40 mm) cement concrete by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport, including form work.	$m^3$	<b>36,354.00</b>
SPID/CON/F/07	1:3:6(25 mm) Cement concrete without shuttering by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>33,275.00</b>
SPID/CON/F/08	1:3:6(25 mm) Cement concrete without shuttering by mixer,including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>29,131.00</b>
SPID/CON/F/09	1:3:6 (25 mm) Cement concrete with shuttering by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>40,505.00</b>
SPID/CON/F/10	1:3:6 (25 mm) Cement concrete with shuttering by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	<b>36,361.00</b>



SPID/CON/F/11	1:2:4(20 mm) Cement concrete without shuttering by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	35,627.00
SPID/CON/F/12	1:2:4(20 mm) Cement concrete without shuttering by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	31,790.00
SPID/CON/F/13	1:2:4 (20mm) Cement concrete by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport, including form work	$m^3$	45,266.00
SPID/CON/F/14	1:2:4 (20mm) Cement concrete by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport, including form work	$m^3$	41,122.00
SPID/CON/F/15	1:1 1/2:3 (20 mm) Cement concrete without shuttering by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	37,620.00
SPID/CON/F/16	1:1 1/2:3 (20 mm) Cement concrete without shuttering by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	33,476.00
SPID/CON/F/17	1:1 1/2:3 (20 mm) Cement concrete with shuttering by manually, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	43,645.00
SPID/CON/F/18	1:1 1/2:3 (20 mm) Cement concrete with shuttering by mixer, including 5 km for cement, 8 km for metal and 5 km for sand as transport.	$m^3$	39,501.00
<b>G –Masonry work</b>			
SPID/CON/G/01	6"- 9" random rubble masonry in 1:5 cement mortar (including local transport 8 km rubble, 5 km cement with loading/unloading)	$m^3$	20,418.00
SPID/CON/G/02	9" thick rubble pitching in 1:5 cement mortar (including local transport 8 km rubble, 5 km cement with loading/unloading)	$m^2$	4,547.00
SPID/CON/G/03	Furnishing & placing 9" thick rubble rip rap by manually including 8 km local transport with loading/unloading	$m^3$	10,842.00
SPID/CON/G/04	12" Thick rubble packing including 8 km local transport loading / unloading	$m^3$	9,244.00
SPID/CON/G/05	9" thick rubble packing by manually rate including 8 km transport, loading / unloading	$m^3$	6,818.00
SPID/CON/G/06	1/2" Thick rough cement plastering in 1:3 cement mortar including 5 km local transport with loading / unloading	$m^2$	1,237.00
SPID/CON/G/07	225 mm Brick masonry in 1:5 cement mortar (Including 5 km cement, 5 km sand, 8 km bricks local transport, loading/ unloading)	$m^3$	31,801.00
SPID/CON/G/08	Rate analysis for 112.5mm thick brick masonry in 1:5 cement mortar (Including 5 km cement, 5 km sand, 8 km bricks local transport, loading/ unloading)	$m^2$	3,905.00



<b>H – Hume Pipe</b>			
SPID/CON/H/01	Supplying & laying 6" dia hume pipe including local transport, loading /unloading	<i>m</i>	<b>2,947.00</b>
SPID/CON/H/02	Supplying & laying 9" dia hume pipe including local transport loading /unloading .	<i>m</i>	<b>4,148.00</b>
SPID/CON/H/03	Supplying, laying & jointing 12"dia hume pipe including local transport, loading /unloading.	<i>m</i>	<b>7,396.00</b>
SPID/CON/H/04	Supplying , laying & jointing 18" dia hume pipe including local transport, loading /unloading	<i>m</i>	<b>10,763.00</b>
SPID/CON/H/05	Supplying, laying & jointing 24"dia hume pipe including local transport, loading /unloading	<i>m</i>	<b>14,484.00</b>
SPID/CON/H/06	Supplying ,laying & jointing 30"dia hume pipe including local transport, loading /unloading	<i>m</i>	<b>20,951.00</b>
SPID/CON/H/07	Supplying, laying & jointing 36"dia hume pipe including local transport, loading /unloading	<i>m</i>	<b>22,088.00</b>
<b>J – CI sluice gate</b>			
SPID/CON/J/01	Supplying & fixing 6" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>89,603.00</b>
SPID/CON/J/02	Supplying & fixing 9" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>134,409.00</b>
SPID/CON/J/03	Supplying & fixing 12" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>148,248.00</b>
SPID/CON/J/04	Supplying & fixing 15" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>184,248.00</b>
SPID/CON/J/05	Supplying & fixing 18" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>220,398.00</b>
SPID/CON/J/06	Supplying & fixing 24" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>340,349.00</b>
SPID/CON/J/07	Supplying & fixing 30" dia C.I. sluice gate including all accessories, main transport, local transport, loading /unloading.	<i>No.</i>	<b>582,460.00</b>



<b>K - Miscellaneous</b>			
SPID/CON/K/01	Supplying and installation of W x H (0 m < W=Width ≤ 1.2 m, lifting gate using (75 x 150) mm Kumbuk timber planks, (75 x 75 x 6)mm Angle iron, (75 x 6)mm Flat iron, 6mm thick Gusset plate, 12mm dia. 125mm long nut & bolt...etc. Rate including applying two coats of Tar on all surfaces of timber planks & applying two coats of Anticorrosive paint on all Metal parts as directed.	m <sup>2</sup>	107,954.00
SPID/CON/K/02	Supplying and installation of W x H (1.2 m < W=Width ≤ 1.8 m, lifting gate using (75 x 150) mm Kumbuk timber planks, (75 x 75 x 6)mm Angle iron, (75 x 6)mm Flat iron, 6mm thick Gusset plate, 12mm dia. 125mm long nut & bolt...etc. Rate including applying two coats of Tar on all surfaces of timber planks & applying two coats of Anticorrosive paint on all Metal parts as directed.	m <sup>2</sup>	98,239.00
SPID/CON/K/03	Supplying and installation of W x H (1.8m < W=Width ≤ 2.4 m, lifting gate using (75 x 150) mm kumbuk timber planks,(75 x 75 x 6)mm Angle iron, (75 X 6) mm Flat iron, 6mm thick Gusset plate, 12 mm dia.125mm long nut & bolt...etc. Rate including applying two coats of Tar on all surface of timber planks & applying two coats of Anticorrosive paint on all Metal parts as directed.	m <sup>2</sup>	95,625.00
SPID/CON/K/04	Supply, fabrication and instalation of steel lifting gate WxH (0 <W<1.2m) using 50mmx50mm(2mmthk) box bar,4mm thk MS Plate, 6mm thk gusset plate, &all necessary materials with applying primer and 2 coats of Marine paint excluding transport.	m <sup>2</sup>	151,126.00
SPID/CON/K/05	Supply, fabrication and instalation of steel lifting gate WxH (1.2 <W<1.8)m by using 50mm x 50mm (2mm thk) box bar,4mm thk MS Plate 6mm thk gussete plate, & all necessary materials with applying primer and 2 coats of Marine paint excluding transport.	m <sup>2</sup>	106,343.79
SPID/CON/K/06	Supply, fabrication and installation of 0.9 m height hand rail using 50mm x 50mm gauge 2mm G.I. box bar, 50mm x 25mm gauge 2mm G.I. box bar, 6mm thick MS plate, 12 mm dia. 125 long Anchor bolt... etc. Rate including applying two coats of Marine paint on all Metal parts as directed(01 uses) excluding transport	m	9,720.00
SPID/CON/K/07	Suppling and anstallation of 0.9 m high hand rail using 2"φ pakistan heavy GI bar, 1½ φ GI bar 6mm thick MS plate, 12mm dia 125 long anchor bolts etc. Rate including applying 2 caots of anticorossive on all metel parts as directed (without transport)	m	12,521.00
SPID/CON/K/08	Making cofferdam using polysack sand bag. Rate including packing, placing, removing sand bags and clearing sit as directed. (Cofferdam piles size 6m x 0.9m x 1.5m & not exceeding 8.1m <sup>3</sup> volume & all material 01 use)	m <sup>3</sup>	15,510.00
SPID/CON/K/09	Making cofferdam using polysack sand bag. Rate including packing, placing, removing sand bags and clearing sit as directed. (Cofferdam piles size 6m x 0.9m x 1.5m & not exceeding 8.1m <sup>3</sup> volume & all material 02 use)	m <sup>3</sup>	11,753.00



SPID/CON/K/10	Providing girders with 75mm x 150mm x 75mm thk 6mm with all necessary other metal parts including supplying, making & fixing excluding transport		<b>24,918.00</b>
SPID/CON/K/11	Supplying, cutting, bending, drilling and fixing 200mm long hook for anicut planks. Using 16mm x 16mm flat iron & 40mm long brass screw nails. Rate including applying two coats of anticorrosive paints	No.	<b>446.00</b>
SPID/CON/K/12	Supplying and placing PVC coated Gabion boxes(Mesh Wire Dia 2.7,selvadge wire dia 3.4 Lacing Wire Dia 2.2),including 40% 6"x9" & 60% 6"x4"rubble packing x 100mm, Placing (Diaphragms 1.0m centers) and arranging along the channel for 1x1.0x1.0m Gabion box (including transport 8 km for rubble, 50 km for gabion boxes)	m <sup>3</sup>	<b>26,598.00</b>
SPID/CON/K/13	Supplying and placing PVC coated Gabion boxes(Mesh Wire Dia 2.7,selvadge wire dia 3.4 Lacing Wire Dia 2.2),including 40% 6"x9" & 60% 6"x4"rubble packing x 100mm, Placing (Diaphragms 1.0m centers) and arranging along the channel for 1.5x1.0x1.0m Gabion box (including transport 8 km for rubble, 50 km for gabion boxes)	m <sup>3</sup>	<b>22,975.00</b>
SPID/CON/K/14	Supplying and placing PVC coated Gabion boxes(Mesh Wire Dia 2.7,selvadge wire dia 3.4 Lacing Wire Dia 2.2),including 40% 6"x9" & 60% 6"x4"rubble packing x 100mm, Placing (Diaphragms 1.0m centers) and arranging along the channel for 2x1.0x1.0m Gabion box (including transport 8 km for rubble, 50 km for gabion boxes)	m <sup>3</sup>	<b>22,105.00</b>
SPID/CON/K/15	Supplying and placing PVC coated Gabion boxes(Mesh Wire Dia 2.7,selvadge wire dia 3.4 Lacing Wire Dia 2.2),including 40% 6"x9" & 60% 6"x4"rubble packing x 100mm, Placing (Diaphragms 1.0m centers) and arranging along the channel for 3x1.0x1.0m Gabion box (including transport 8 km for rubble, 50 km for gabion boxes)	m <sup>3</sup>	<b>21,270.00</b>
SPID/CON/K/16	Supplying and placing PVC coated Gabion boxes(Mesh Wire Dia 2.7,selvadge wire dia 3.4 Lacing Wire Dia 2.2),including 40% 6"x9" & 60% 6"x4"rubble packing x 100mm, Placing (Diaphragms 1.0m centers) and arranging along the channel for 2x1.0x0.5m Gabion box (including transport 8 km for rubble, 50 km for gabion boxes)	m <sup>3</sup>	<b>34,727.00</b>
SPID/CON/K/17	Supplying & laying Geotextile with Polyfelt Geotextile TS 65 285 GSM thickness 2.5mm	m <sup>2</sup>	<b>670.00</b>
SPID/CON/K/18	Supplying & applying 2 coat of hot tar for anicut gate	m <sup>2</sup>	<b>1,269.00</b>
SPID/CON/K/19	Providing of weep hole using 3" dia. (600)PVC pipes	m	<b>1,235.00</b>
SPID/CON/K/20	Construction of filter for weep hole	ft <sup>3</sup>	<b>615.00</b>
SPID/CON/K/21	Applying 2 coats of Anticorrosive Paint for an existing Lifting gate (Wooden)	m <sup>2</sup>	<b>1,393.00</b>

Transport 8 km  
analysis



SPID/CON/K/22	Grass cutting by cutter machine	$m^2$	31.00
SPID/CON/K/23	Applying anticorrosive paints (2 coats) for 50 x 50 box bar hand rail	Lm	782.00
SPID/CON/K/24	Locking arrangement for anicut planks of existing anicut using 50mm x 6m flat iron with 2 holes and 2 nos 10mm dia. MS Steel hooks, Including pad lock and applying Marine paint (As per drawing)	Nos	5,141.00
SPID/CON/K/25	Locking arrangements for security of anicut planks in an anicut gate	Nos	2,434.00
SPID/CON/K/26	Applying 2 coats of Anticorrosive paint for an existing Lifting gate (steel gate)	$m^2$	8,029.00
SPID/CON/K/27	Applying 2 coats of Marine Paint for an existing Lifting gate (steel gate)	$m^2$	9,992.00
SPID/CON/K/28	Suppling 6"x3" Kumbuk stop planks including cutting, Shaping ends (without applying tar and fixing hooks)	$m^2$	53,058.00
SPID/CON/K/29	Prepairing groves with all necessary metal parts excluging material transport	Lm	12,774.00

Prepared by:



Samantha Gunasekara  
Engineer Assistanat

Recommended by:



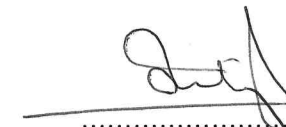
L.V.D. Sanjeewa  
Chief Irrigation Engineer

Checked By :



N.P.I. Madushanka  
Design Engineer

Approved By:



D.N.W. Dissanayake  
Provincial Director of Irrigation

**Eng.D.N.W.Dissanayake**  
Provincial Director of Irrigation  
Provincial Irrigation Department  
Southern Province



### Rates for Machinery

#### Channel Dredging

Item code	Description	Unit	Rate 2025
SPID/MACH/A/01	Dredging along the channel by Hydraulic Excavator with pontoon (Up to PC 60)	m <sup>3</sup>	279.00
SPID/MACH/A/02	Dredging along the channel by Hydraulic Excavator without pontoon (Up to PC 60)	m <sup>3</sup>	227.00
SPID/MACH/A/03	Dredging along the channel by Hydraulic Excavator with pontoon (Over PC 70)	m <sup>3</sup>	418.00
SPID/MACH/A/04	Dredging along the channel by Hydraulic Excavator without pontoon (Over PC 70)	m <sup>3</sup>	365.00
SPID/MACH/A/05	Channel desilting by Hydraulic Excavator with pontoon (Up to PC 60)	m <sup>3</sup>	355.00
SPID/MACH/A/06	Channel desilting by Hydraulic Excavator without pontoon (Over PC 60)	m <sup>3</sup>	280.00
SPID/MACH/A/07	Channel desilting by Hydraulic Excavator with pontoon (Over PC 70)	m <sup>3</sup>	355.00
SPID/MACH/A/08	Channel desilting by Hydraulic Excavator without pontoon (Over PC 70)	m <sup>3</sup>	314.00
SPID/MACH/A/09	Channel desilting by Hydraulic Excavator with pontoon (Over PC 200)	m <sup>3</sup>	186.00
SPID/MACH/A/10	Channel desilting by Hydraulic Excavator without pontoon (Over PC 200)	m <sup>3</sup>	170.00
<b>Removing Water Plants</b>			
SPID/MACH/B/01	Removing water plants with silt layer in root zone by Hydraulic Excavator with pontoon (Up to PC 60)	m <sup>3</sup>	204.00
SPID/MACH/B/02	Removing water plants with silt layer in root zone by Hydraulic Excavator without pontoon (Up to PC 60)	m <sup>3</sup>	169.00
SPID/MACH/B/03	Removing water plants with silt layer in root zone by Hydraulic Excavator with pontoon (over PC 70)	m <sup>3</sup>	308.00
SPID/MACH/B/04	Removing water plants with silt layer in root zone by Hydraulic Excavator without pontoon (Over PC 70)	m <sup>3</sup>	272.00
<b>C – Removing Ketala</b>			
SPID/MACH/C/01	Removing ketala with silt along the channel by Hydraulic Excavator with pontoon (Up to PC 60)	m <sup>3</sup>	258.00
SPID/MACH/C/02	Removing ketala with silt along the channel by Hydraulic Excavator without pontoon (Up to PC 60)	m <sup>3</sup>	211.00
SPID/MACH/C/03	Removing ketala with silt along the channel by Hydraulic Excavator with pontoon (Over PC 70)	m <sup>3</sup>	388.00
SPID/MACH/C/04	Removing ketala with silt along the channel by Hydraulic Excavator without pontoon (Over PC 70)	m <sup>3</sup>	340.00
SPID/MACH/C/05	Removing (loading) dredged materials by machinery as directed.	m <sup>3</sup>	207.00
SPID/MACH/C/06	Channel clearing including removal of water plants, suspended matter deposited and dump out of the reservation by machinery	m <sup>2</sup>	51.00



<b>D – Earthwork</b>			
SPID/MACH/D/01	Stripping top soil by Backhoe loader	$m^3$	<b>90.00</b>
SPID/MACH/D/02	Earth Compaction by vibrating roller (1/2 - 1 ton) (PBC - 56.6)	$m^3$	<b>864.00</b>
SPID/MACH/D/03	Earth Compaction by vibrating rammer (60 kg)	$m^3$	<b>177.00</b>
SPID/MACH/D/04	Formation bund from dredge materials and field earth including placing & compacting by machinery.	$m^3$	<b>331.00</b>
SPID/MACH/D/05	Cutting Sand bar by machine at sea out falls (without transport)	$m^3$	<b>500.00</b>
SPID/MACH/D/06	Chanel excavation & spoil for bund back fill dump by department machine with pontoon. (only operating cost)	$m^3$	<b>92.00</b>
SPID/MACH/D/07	Formation bund from dredged materials & field earth placing compacting by department machine. (only operating cost)	$m^3$	<b>134.00</b>
SPID/MACH/D/08	Earth Excavation by machinery – using backhoe loader	$m^3$	<b>213.00</b>
SPID/MACH/D/09	Earth excavation and spoil to waste or fill material cut and lift (0-1.5)m spread 30m by machinery	$m^3$	<b>288.00</b>
SPID/MACH/D/10	Earth excavation and spoil to waste or fill material cut and lift (1.5-3.0)m spread 30m by machinery	$m^3$	<b>295.00</b>
SPID/MACH/D/11	Furnishing and placing gravel bedding excluding haul (by machinery)	$m^3$	<b>335.00</b>
SPID/MACH/D/12	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 1/4 mile transport by Tractor( For watering paid by separately)	$m^3$	<b>873.00</b>
SPID/MACH/D/13	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 1/2 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>896.00</b>
SPID/MACH/D/14	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 3/4 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>937.00</b>
SPID/MACH/D/15	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 1 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>977.00</b>



SPID/MACH/D/16	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 1 1/4 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>1,017.00</b>
SPID/MACH/D/17	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 1 1/2 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>1,057.00</b>
SPID/MACH/D/18	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 1 3/4 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>1,097.00</b>
SPID/MACH/D/19	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 2 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>1,138.00</b>
SPID/MACH/D/20	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 2 1/4 mile transport by Tractor( For watering paid by separately	$m^3$	<b>1,178.00</b>
SPID/MACH/D/21	Earth excavation borrow and loading, placing, spreading, by Backhoe loader and compacting by 8T Roller watering to be done as per Engineers instruction & 2 1/2 mile transport by Tractor ( For watering paid by separately	$m^3$	<b>1,218.00</b>
SPID/MACH/D/22	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 1/4 mile by tractor	$m^3$	<b>730.00</b>
SPID/MACH/D/23	Tank bed desilting & silt transporting and depositing within 1/2 mile by using PC 30 backhoe excavator by tractor	$m^3$	<b>770.00</b>
SPID/MACH/D/24	Tank bed desilting & silt transporting and depositing within 3/4 mile by using PC 30 backhoe excavator by tractor	$m^3$	<b>810.00</b>
SPID/MACH/D/25	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 1 mile by tractor	$m^3$	<b>850.00</b>
SPID/MACH/D/26	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 1 1/4 mile by tractor	$m^3$	<b>891.00</b>
SPID/MACH/D/27	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 1 1/2 mile by tractor	$m^3$	<b>931.00</b>



SPID/MACH/D/28	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 1 ¾ mile by tractor	m <sup>3</sup>	971.00
SPID/MACH/D/29	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 2 mile by tractor	m <sup>3</sup>	1,011.00
SPID/MACH/D/30	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 2 ¼ mile by tractor	m <sup>3</sup>	1,051.00
SPID/MACH/D/31	Tank bed desilting by using PC 30 backhoe excavator & silt transporting and depositing within 2 ½ mile by tractor	m <sup>3</sup>	1,092.00
SPID/MACH/D/32	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within ¼ mile by tractor	m <sup>3</sup>	775.00
SPID/MACH/D/33	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 1/2 mile by tractor	m <sup>3</sup>	815.00
SPID/MACH/D/34	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 3/4 mile by tractor	m <sup>3</sup>	855.00
SPID/MACH/D/35	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 1 mile by tractor	m <sup>3</sup>	895.00
SPID/MACH/D/36	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 1 ¼ mile by tractor	m <sup>3</sup>	935.00
SPID/MACH/D/37	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 1 ½ mile by tractor	m <sup>3</sup>	976.00
SPID/MACH/D/38	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 1 ¾ mile by tractor	m <sup>3</sup>	1,016.00
SPID/MACH/D/39	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 2 mile by tractor	m <sup>3</sup>	1,056.00
SPID/MACH/D/40	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 2 ¼ mile by tractor	m <sup>3</sup>	1,096.00
SPID/MACH/D/41	Tank bed desilting by using PC 70 backhoe excavator & silt transporting and depositing within 2 ½ mile by tractor	m <sup>3</sup>	1,136.00
SPID/MACH/D/42	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within ¼ mile by tractor	m <sup>3</sup>	743.00
SPID/MACH/D/43	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 1/2 mile by tractor	m <sup>3</sup>	784.00
SPID/MACH/D/44	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 3/4 mile by tractor	m <sup>3</sup>	824.00
SPID/MACH/D/45	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 1 mile by tractor	m <sup>3</sup>	864.00



SPID/MACH/D/46	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 1 ¼ mile by tractor	m <sup>3</sup>	904.00
SPID/MACH/D/47	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 1 ½ mile by tractor	m <sup>3</sup>	944.00
SPID/MACH/D/48	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 1 ¾ mile by tractor	m <sup>3</sup>	985.00
SPID/MACH/D/49	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 2 mile by tractor	m <sup>3</sup>	1,025.00
SPID/MACH/D/50	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 2 ¼ mile by tractor	m <sup>3</sup>	1,065.00
SPID/MACH/D/51	Tank bed desilting by using PC 120 backhoe excavator & silt transporting and depositing within 2 ½ mile by tractor	m <sup>3</sup>	1,105.00
SPID/MACH/D/52	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within ¼ mile by tractor	m <sup>3</sup>	620.00
SPID/MACH/D/53	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 1/2 mile by tractor	m <sup>3</sup>	660.00
SPID/MACH/D/54	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 3/4 mile by tractor	m <sup>3</sup>	700.00
SPID/MACH/D/55	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 1 mile by tractor	m <sup>3</sup>	740.00
SPID/MACH/D/56	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 1 ¼ mile by tractor	m <sup>3</sup>	781.00
SPID/MACH/D/57	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 1 ½ mile by tractor	m <sup>3</sup>	821.00
SPID/MACH/D/58	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 1 ¾ mile by tractor	m <sup>3</sup>	861.00
SPID/MACH/D/59	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 2 mile by tractor	m <sup>3</sup>	901.00
SPID/MACH/D/60	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 2 ¼ mile by tractor	m <sup>3</sup>	941.00
SPID/MACH/D/61	Tank bed desilting by using PC 200 backhoe excavator & silt transporting and depositing within 2 ½ mile by tractor	m <sup>3</sup>	982.00




SPID/MACH/E/01	Heavy Jungle clearing by machinery (D-6 Dozer or Track line)	$m^2$	7.89
SPID/MACH/E/02	Light jungle clearing by machinery (D-6 Dozer or Track line)	$m^2$	4.70
SPID/MACH/E/03	Secondary growth clearing by machinery ( D- 6 Dozer or Track line)	$m^2$	2.36
SPID/MACH/E/04	Shrub jungle clearing by machinery	$m^2$	3.70

Prepared by:

  
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D.P. Kokila  
Drawing Office Assistant

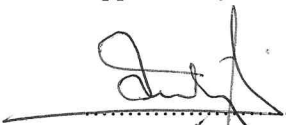
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Design Engineer

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D.N.W. Dissanayake  
Provincial Director of Irrigation



Tank bed desilting by PC 30 backhoe excavater & silt loading transporting and depositting by machinary

PC 30 Backhoe excavater out put per hour = 12 m <sup>3</sup> h <sup>-1</sup>										
Hourly plant rate = 3050.00										
Rate per 1 m <sup>3</sup> = Hourly plant rate /12 = 254.17										
backhoe loader out put per hour = 40 m <sup>3</sup> h <sup>-1</sup>										
Hourly plant rate = 5800.00										
Rate per 1 m3 = Hourly plant rate /40 = 145.00										
	1/4 mile	1/2 mile	3/4 mile	1 mile	1 1/4 mile	1 1/2 mile	1 3/4 mile	2 mile	2 1/4 mile	2 1/2 mile
Tank bed desilting by pc 30 backhoe excavater basic rate per 1 m <sup>3</sup>	254.17	254.17	254.17	254.17	254.17	254.17	254.17	254.17	254.17	254.17
Loading by backhoe loader basic rate per 1 m3	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00
X mile tpt by tract. or per cu	CON/C/30	CON/C/32	CON/C/34	CON/C/36	CON/C/38	CON/C/40	CON/C/42	CON/C/44	CON/C/46	CON/C/48
	748.29	851.79	955.29	1058.79	1162.29	1265.79	1369.29	1472.79	1576.29	1679.79
cu → m <sup>3</sup> factor	2.832	2.832	2.832	2.832	2.832	2.832	2.832	2.832	2.832	2.832
tpt by tractor per m <sup>3</sup>	264.23	300.77	337.32	373.87	410.41	446.96	483.51	520.05	556.60	593.15
Basic rate	663.39	699.94	736.49	773.03	809.58	846.13	882.67	919.22	955.77	992.31
profit 10%	66.34	69.99	73.65	77.30	80.96	84.61	88.27	91.92	95.58	99.23
Unit Rate per 1 m <sup>3</sup>	729.73	769.93	810.13	850.34	890.54	930.74	970.94	1011.14	1051.34	1091.55
Say	730.00	770.00	810.00	850.00	891.00	931.00	971.00	1011.00	1051.00	1092.00
Rate No	MACH/D/22	MACH/D/23	MACH/D/24	MACH/D/25	MACH/D/26	MACH/D/27	MACH/D/28	MACH/D/29	MACH/D/30	MACH/D/31



Tank bed desilting by PC 70 backhoe excavater & silt loading transporting and depositting by machinary

PC 70 Backhoe excavater out put per hour	=	20.00	m <sup>3</sup> h <sup>-1</sup>
Hourly plant rate	=	5,900.00	
Rate per 1 m <sup>3</sup> = Hourly plant rate /20	=	295.00	

backhoe loader out put per hour	=	40 m3 h-1
Hourly plant rate	=	5,800.00
Rate per 1 m3=Hourly plant rate /40	=	145.00

	1/4 mile	1/2 mile	3/4 mile	1 mile	1 1/4 mile	1 1/2 mile	1 3/4 mile	2 mile	2 1/4 mile	2 1/2 mile
Tank bed desilting by pc 70 backhoe excavater basic rate per 1 m <sup>3</sup>	295.00	295.00	295.00	295.00	295.00	295.00	295.00	295.00	295.00	295.00
Loading by backhoe loader basic rate per 1 m3	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00
X mile tpt by tract. or per cu	CON/C/30	CON/C/32	CON/C/34	CON/C/36	CON/C/38	CON/C/40	CON/C/42	CON/C/44	CON/C/46	CON/C/48
	748.29	851.79	955.29	1,058.79	1,162.29	1,265.79	1,369.29	1,472.79	1,576.29	1,679.79
cu → m <sup>3</sup> factor	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
tpt. by tractor per m <sup>3</sup>	264.23	300.77	337.32	373.87	410.41	446.96	483.51	520.05	556.60	593.15
Basic rate	704.23	740.77	777.32	813.87	850.41	886.96	923.51	960.05	996.60	1,033.15
profit 10%	70.42	74.08	77.73	81.39	85.04	88.70	92.35	96.01	99.66	103.31
Unit Rate per 1 m <sup>3</sup>	774.65	814.85	855.05	895.25	935.45	975.66	1,015.86	1,056.06	1,096.26	1,136.46
Say	775.00	815.00	855.00	895.00	935.00	976.00	1,016.00	1,056.00	1,096.00	1,136.00
Rate No	MACH/D/32	MACH/D/33	MACH/D/34	MACH/D/35	MACH/D/36	MACH/D/37	MACH/D/38	MACH/D/39	MACH/D/40	MACH/D/41

Tank bed desilting by PC120 backhoe excavater & silt loading transporting and depositting by machinary

PC 120 Backhoe excavater out put per hour		=	30m <sup>3</sup> h <sup>-1</sup>							
Hourly plant rate		=	8000.00							
Rate per 1 m <sup>3</sup> = Hourly plant rate /30		=	266.67							
backhoe loader out put per hour		=	40 m <sup>3</sup> h <sup>-1</sup>							
Hourly plant rate		=	5800.00							
Rate per 1 m <sup>3</sup> = Hourly plant rate /40		=	145.00							
	<sup>1/4</sup> mile	<sup>1/2</sup> mile	<sup>3/4</sup> mile	1 mile	1 <sup>1/4</sup> mile	1 <sup>1/2</sup> mile	1 <sup>3/4</sup> mile	2 mile	2 <sup>1/4</sup> mile	2 <sup>1/2</sup> mile
Tank bed desilting by pc 30 backhoe excavater basic rate per 1 m <sup>3</sup>	266.67	266.67	266.67	266.67	266.67	266.67	266.67	266.67	266.67	266.67
Loading by backhoe loader basic rate per 1 m <sup>3</sup>	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00
X mile tpt by tract. or per cu	CON/C/30	CON/C/32	CON/C/34	CON/C/36	CON/C/38	CON/C/40	CON/C/42	CON/C/44	CON/C/46	CON/C/48
	748.29	851.79	955.29	1,058.79	1,162.29	1,265.79	1,369.29	1,472.79	1,576.29	1,679.79
cu $\longrightarrow$ m <sup>3</sup> factor	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
tpt by tractor per m <sup>3</sup>	264.23	300.77	337.32	373.87	410.41	446.96	483.51	520.05	556.60	593.15
Basic rate	675.89	712.44	748.99	785.53	822.08	858.63	895.17	931.72	968.27	1,004.81
profit 10%	67.59	71.24	74.90	78.55	82.21	85.86	89.52	93.17	96.83	100.48
Unit Rate per 1 m <sup>3</sup>	743.48	783.68	823.88	864.09	904.29	944.49	984.69	1,024.89	1,065.09	1,105.30
Say	743.00	784.00	824.00	864.00	904.00	944.00	985.00	1,025.00	1,065.00	1,105.00
Rate No	MACH/D/42	MACH/D/43	MACH/D/44	MACH/D/45	MACH/D/46	MACH/D/47	MACH/D/48	MACH/D/49	MACH/D/50	MACH/D/51



**Tank bed desilting by PC 200 backhoe excavator & silt loading transporting and depositting by machinery**


PC 200 Backhoe excavator out put per hour	=	60 m3h-1
Hourly plant rate	=	9,250.00
Rate per 1 m <sup>3</sup> = 10425/60 = Rs.	=	154.17
backhoe loader out put per hour	=	40 m3 h-1
Hourly plant rate	=	5,800.00
Rate per 1 m3 = Hourly plant rate/40	=	145.00

	<sup>1/4</sup> mile	<sup>1/2</sup> mile	<sup>3/4</sup> mile	1 mile	1 <sup>1/4</sup> mile	1 <sup>1/2</sup> mile	1 <sup>3/4</sup> mile	2 mile	2 <sup>1/4</sup> mile	2 <sup>1/2</sup> mile
Tank bed desilting by pc 200 backhoe excavator basic rate per 1 m <sup>3</sup>	154.17	154.17	154.17	154.17	154.17	154.17	154.17	154.17	154.17	154.17
Loading by backhoe loader basic rate per 1 m3	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00
X mile tpt by tract. or per cu	CON/C/30	CON/C/32	CON/C/34	CON/C/36	CON/C/38	CON/C/40	CON/C/42	CON/C/44	CON/C/46	CON/C/48
	748.29	851.79	955.29	1,058.79	1,162.29	1,265.79	1,369.29	1,472.79	1,576.29	1,679.79
cu → m <sup>3</sup> factor	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
tpt by tractor per m <sup>3</sup>	264.23	300.77	337.32	373.87	410.41	446.96	483.51	520.05	556.60	593.15
Basic rate	563.39	599.94	636.49	673.03	709.58	746.13	782.67	819.22	855.77	892.31
profit 10%	56.34	59.99	63.65	67.30	70.96	74.61	78.27	81.92	85.58	89.23
Unit Rate per 1 m <sup>3</sup>	619.73	659.93	700.13	740.34	780.54	820.74	860.94	901.14	941.34	981.55
Say	620.00	660.00	700.00	740.00	781.00	821.00	861.00	901.00	941.00	982.00
Rate No	MACH/D/52	MACH/D/53	MACH/D/54	MACH/D/55	MACH/D/56	MACH/D/57	MACH/D/58	MACH/D/59	MACH/D/60	MACH/D/61


Prepared by:

  
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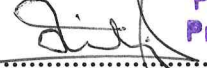
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Recommended by:

  
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Chief Irrigation Engineer

Approved by:

  
Eng. D.N.W. Dissanayake  
Provincial Director of Irrigation  
Provincial Irrigation Department  
Southern Province

Transport by Tractor - In Mile

		Mile	Material								
			1 Cube Earth/Sand	1 Sq Turfing	1 ft <sup>3</sup> Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
Hw	2242.00	0.25	748.29	666.18	13.32	594.80	27.76	873.00	13.22	34.70	52.05
Hu	1548.00	0.50	851.79	695.16	13.90	620.68	28.97	993.75	13.79	36.21	54.31
		0.75	955.29	724.14	14.48	646.55	30.17	1114.50	14.37	37.72	56.57
Hi	531.00	1.00	1058.79	753.12	15.06	672.43	31.38	1235.25	14.94	39.23	58.84
		1.25	1162.29	782.10	15.64	698.30	32.59	1356.00	15.52	40.73	61.10
		1.50	1265.79	811.08	16.22	724.18	33.80	1476.76	16.09	42.24	63.37
		1.75	1369.29	840.06	16.80	750.05	35.00	1597.51	16.67	43.75	65.63
		2.00	1472.79	869.04	17.38	775.93	36.21	1718.26	17.24	45.26	67.89
		2.25	1576.29	898.02	17.96	801.81	37.42	1839.01	17.82	46.77	70.16
		2.50	1679.79	927.00	18.54	827.68	38.63	1959.76	18.39	48.28	72.42
		2.75	1783.29	955.98	19.12	853.56	39.83	2080.51	18.97	49.79	74.69
		3.00	1886.79	984.96	19.70	879.43	41.04	2201.26	19.54	51.30	76.95
		3.25	1990.30	1013.94	20.28	905.31	42.25	2322.01	20.12	52.81	79.21
		3.50	2093.80	1042.92	20.86	931.18	43.46	2442.76	20.69	54.32	81.48
		3.75	2197.30	1071.90	21.44	957.06	44.66	2563.51	21.27	55.83	83.74
		4.00	2300.80	1100.88	22.02	982.93	45.87	2684.26	21.84	57.34	86.01
		4.25	2404.30	1129.86	22.60	1008.81	47.08	2805.01	22.42	58.85	88.27
		4.50	2507.80	1158.84	23.18	1034.68	48.29	2925.77	22.99	60.36	90.53
		4.75	2611.30	1187.82	23.76	1060.56	49.49	3046.52	23.57	61.87	92.80
		5.00	2714.80	1216.80	24.34	1086.43	50.70	3167.27	24.14	63.38	95.06



**Transport by Tractor - In Mile**

Mile	Material								
	1 Cube Earth/Sand	1 Sq Turfing	1 ft <sup>3</sup> Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
5.25	2818.30	1245.78	24.92	1112.31	51.91	3288.02	24.72	64.88	97.33
5.50	2921.80	1274.76	25.50	1138.18	53.12	3408.77	25.29	66.39	99.59
5.75	3025.30	1303.74	26.07	1164.06	54.32	3529.52	25.87	67.90	101.86
6.00	3128.80	1332.72	26.65	1189.93	55.53	3650.27	26.44	69.41	104.12
6.25	3232.30	1361.71	27.23	1215.81	56.74	3771.02	27.02	70.92	106.38
6.50	3335.80	1390.69	27.81	1241.68	57.95	3891.77	27.59	72.43	108.65
6.75	3439.31	1419.67	28.39	1267.56	59.15	4012.52	28.17	73.94	110.91
7.00	3542.81	1448.65	28.97	1293.43	60.36	4133.27	28.74	75.45	113.18
7.25	3646.31	1477.63	29.55	1319.31	61.57	4254.02	29.32	76.96	115.44
7.50	3749.81	1506.61	30.13	1345.18	62.78	4374.78	29.89	78.47	117.70
7.75	3853.31	1535.59	30.71	1371.06	63.98	4495.53	30.47	79.98	119.97
8.00	3956.81	1564.57	31.29	1396.93	65.19	4616.28	31.04	81.49	122.23
8.25	4060.31	1593.55	31.87	1422.81	66.40	4737.03	31.62	83.00	124.50
8.50	4163.81	1622.53	32.45	1448.68	67.61	4857.78	32.19	84.51	126.76
8.75	4267.31	1651.51	33.03	1474.56	68.81	4978.53	32.77	86.02	129.02
9.00	4370.81	1680.49	33.61	1500.44	70.02	5099.28	33.34	87.53	131.29
9.25	4474.31	1709.47	34.19	1526.31	71.23	5220.03	33.92	89.03	133.55
9.50	4577.81	1738.45	34.77	1552.19	72.44	5340.78	34.49	90.54	135.82
9.75	4681.31	1767.43	35.35	1578.06	73.64	5461.53	35.07	92.05	138.08
10.00	4784.81	1796.41	35.93	1603.94	74.85	5582.28	35.64	93.56	140.34

Transport by Tractor - In Km

		Distance		Material								
		km	Mile	1 Cube Earth/Sand	1 Sq Turfing	1 ft³ Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
Hw	2242.00	0.25	0.16	709.47	655.31	13.11	585.10	27.30	827.72	13.00	34.13	51.20
Hu	1548.00	0.50	0.31	774.16	673.43	13.47	601.27	28.06	903.19	13.36	35.07	52.61
		0.75	0.47	838.85	691.54	13.83	617.44	28.81	978.66	13.72	36.02	54.03
Hi	531.00	1.00	0.63	903.54	709.65	14.19	633.62	29.57	1054.13	14.08	36.96	55.44
		1.25	0.78	968.23	727.76	14.56	649.79	30.32	1129.60	14.44	37.90	56.86
		1.50	0.94	1032.91	745.88	14.92	665.96	31.08	1205.07	14.80	38.85	58.27
		1.75	1.09	1097.60	763.99	15.28	682.13	31.83	1280.53	15.16	39.79	59.69
		2.00	1.25	1162.29	782.10	15.64	698.30	32.59	1356.00	15.52	40.73	61.10
		2.25	1.41	1226.98	800.21	16.00	714.48	33.34	1431.47	15.88	41.68	62.52
		2.50	1.56	1291.67	818.33	16.37	730.65	34.10	1506.94	16.24	42.62	63.93
		2.75	1.72	1356.35	836.44	16.73	746.82	34.85	1582.41	16.60	43.56	65.35
		3.00	1.88	1421.04	854.55	17.09	762.99	35.61	1657.88	16.96	44.51	66.76
		3.25	2.03	1485.73	872.66	17.45	779.16	36.36	1733.35	17.31	45.45	68.18
		3.50	2.19	1550.42	890.78	17.82	795.34	37.12	1808.82	17.67	46.39	69.59
		3.75	2.34	1615.10	908.89	18.18	811.51	37.87	1884.29	18.03	47.34	71.01
		4.00	2.50	1679.79	927.00	18.54	827.68	38.63	1959.76	18.39	48.28	72.42
		4.25	2.66	1744.48	945.11	18.90	843.85	39.38	2035.23	18.75	49.22	73.84
		4.50	2.81	1809.17	963.23	19.26	860.02	40.13	2110.70	19.11	50.17	75.25
		4.75	2.97	1873.86	981.34	19.63	876.20	40.89	2186.17	19.47	51.11	76.67
		5.00	3.13	1938.54	999.45	19.99	892.37	41.64	2261.64	19.83	52.05	78.08



**Transport by Tractor - In Km**

Distance		Material								
km	Mile	1 Cube Earth/Sand	1 Sq Turfing	1 ft <sup>3</sup> Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
5.25	3.28	2003.23	1017.57	20.35	908.54	42.40	2337.10	20.19	53.00	79.50
5.50	3.44	2067.92	1035.68	20.71	924.71	43.15	2412.57	20.55	53.94	80.91
5.75	3.59	2132.61	1053.79	21.08	940.88	43.91	2488.04	20.91	54.88	82.33
6.00	3.75	2197.30	1071.90	21.44	957.06	44.66	2563.51	21.27	55.83	83.74
6.25	3.91	2261.98	1090.02	21.80	973.23	45.42	2638.98	21.63	56.77	85.16
6.50	4.06	2326.67	1108.13	22.16	989.40	46.17	2714.45	21.99	57.72	86.57
6.75	4.22	2391.36	1126.24	22.52	1005.57	46.93	2789.92	22.35	58.66	87.99
7.00	4.38	2456.05	1144.35	22.89	1021.74	47.68	2865.39	22.71	59.60	89.40
7.25	4.53	2520.74	1162.47	23.25	1037.92	48.44	2940.86	23.06	60.55	90.82
7.50	4.69	2585.42	1180.58	23.61	1054.09	49.19	3016.33	23.42	61.49	92.23
7.75	4.84	2650.11	1198.69	23.97	1070.26	49.95	3091.80	23.78	62.43	93.65
8.00	5.00	2714.80	1216.80	24.34	1086.43	50.70	3167.27	24.14	63.38	95.06
8.25	5.16	2779.49	1234.92	24.70	1102.60	51.45	3242.74	24.50	64.32	96.48
8.50	5.31	2844.18	1253.03	25.06	1118.78	52.21	3318.21	24.86	65.26	97.89
8.75	5.47	2908.86	1271.14	25.42	1134.95	52.96	3393.67	25.22	66.21	99.31
9.00	5.63	2973.55	1289.25	25.79	1151.12	53.72	3469.14	25.58	67.15	100.72
9.25	5.78	3038.24	1307.37	26.15	1167.29	54.47	3544.61	25.94	68.09	102.14
9.50	5.94	3102.93	1325.48	26.51	1183.46	55.23	3620.08	26.30	69.04	103.55
9.75	6.09	3167.62	1343.59	26.87	1199.64	55.98	3695.55	26.66	69.98	104.97
10.00	6.25	3232.30	1361.71	27.23	1215.81	56.74	3771.02	27.02	70.92	106.38

Transport by Lorry - In Mile

	Mile	Material								
		1 Cube Earth/Sa nd	1 Sq Turfig	1 ft <sup>3</sup> Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
H 3816.00	0.25	1329.73	1177.28	23.55	1051.15	49.05	1551.35	23.36	61.32	91.98
Hu 3345.00	0.50	1522.89	1231.37	24.63	1099.44	51.31	1776.70	24.43	64.13	96.20
	0.75	1716.05	1285.45	25.71	1147.73	53.56	2002.05	25.51	66.95	100.43
Hi 936.00	1.00	1909.20	1339.54	26.79	1196.02	55.81	2227.41	26.58	69.77	104.65
	1.25	2102.36	1393.62	27.87	1244.30	58.07	2452.76	27.65	72.58	108.88
	1.50	2295.52	1447.71	28.95	1292.59	60.32	2678.11	28.72	75.40	113.10
	1.75	2488.68	1501.79	30.04	1340.88	62.57	2903.46	29.80	78.22	117.33
	2.00	2681.84	1555.87	31.12	1389.17	64.83	3128.81	30.87	81.04	121.55
	2.25	2875.00	1609.96	32.20	1437.46	67.08	3354.16	31.94	83.85	125.78
	2.50	3068.15	1664.04	33.28	1485.75	69.34	3579.51	33.02	86.67	130.00
	2.75	3261.31	1718.13	34.36	1534.04	71.59	3804.86	34.09	89.49	134.23
	3.00	3454.47	1772.21	35.44	1582.33	73.84	4030.22	35.16	92.30	138.45
	3.25	3647.63	1826.30	36.53	1630.62	76.10	4255.57	36.24	95.12	142.68
	3.50	3840.79	1880.38	37.61	1678.91	78.35	4480.92	37.31	97.94	146.90
	3.75	4033.94	1934.46	38.69	1727.20	80.60	4706.27	38.38	100.75	151.13
	4.00	4227.10	1988.55	39.77	1775.49	82.86	4931.62	39.46	103.57	155.36
	4.25	4420.26	2042.63	40.85	1823.78	85.11	5156.97	40.53	106.39	159.58
	4.50	4613.42	2096.72	41.93	1872.07	87.36	5382.32	41.60	109.20	163.81
	4.75	4806.58	2150.80	43.02	1920.36	89.62	5607.67	42.67	112.02	168.03
	5.00	4999.74	2204.89	44.10	1968.65	91.87	5833.03	43.75	114.84	172.26



Transport by Lorry - In Mile

Mile	Material								
	1 Cube Earth/Sa nd	1 Sq Turfing	1 ft <sup>3</sup> Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
5.25	5192.89	2258.97	45.18	2016.94	94.12	6058.38	44.82	117.65	176.48
5.50	5386.05	2313.05	46.26	2065.23	96.38	6283.73	45.89	120.47	180.71
5.75	5579.21	2367.14	47.34	2113.52	98.63	6509.08	46.97	123.29	184.93
6.00	5772.37	2421.22	48.42	2161.81	100.88	6734.43	48.04	126.11	189.16
6.25	5965.53	2475.31	49.51	2210.10	103.14	6959.78	49.11	128.92	193.38
6.50	6158.69	2529.39	50.59	2258.39	105.39	7185.13	50.19	131.74	197.61
6.75	6351.84	2583.48	51.67	2306.68	107.64	7410.48	51.26	134.56	201.83
7.00	6545.00	2637.56	52.75	2354.96	109.90	7635.84	52.33	137.37	206.06
7.25	6738.16	2691.64	53.83	2403.25	112.15	7861.19	53.41	140.19	210.28
7.50	6931.32	2745.73	54.91	2451.54	114.41	8086.54	54.48	143.01	214.51
7.75	7124.48	2799.81	56.00	2499.83	116.66	8311.89	55.55	145.82	218.74
8.00	7317.63	2853.90	57.08	2548.12	118.91	8537.24	56.62	148.64	222.96
8.25	7510.79	2907.98	58.16	2596.41	121.17	8762.59	57.70	151.46	227.19
8.50	7703.95	2962.07	59.24	2644.70	123.42	8987.94	58.77	154.27	231.41
8.75	7897.11	3016.15	60.32	2692.99	125.67	9213.29	59.84	157.09	235.64
9.00	8090.27	3070.23	61.40	2741.28	127.93	9438.65	60.92	159.91	239.86
9.25	8283.43	3124.32	62.49	2789.57	130.18	9664.00	61.99	162.72	244.09
9.50	8476.58	3178.40	63.57	2837.86	132.43	9889.35	63.06	165.54	248.31
9.75	8669.74	3232.49	64.65	2886.15	134.69	10114.70	64.14	168.36	252.54
10.00	8862.90	3286.57	65.73	2934.44	136.94	10340.05	65.21	171.18	256.76

Transport by Lorry - In Km

		Distance		Material								
		km	Mile	1 Cube Earth/Sand	1 Sq Turfing	1 ft³ Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
Hw	3816.00	0.25	0.16	1257.30	1157.00	23.14	1033.04	48.21	1466.84	22.96	60.26	90.39
Hu	3345.00	0.50	0.31	1378.02	1190.81	23.82	1063.22	49.62	1607.69	23.63	62.02	93.03
		0.75	0.47	1498.74	1224.61	24.49	1093.40	51.03	1748.53	24.30	63.78	95.67
Hi	936.00	1.00	0.63	1619.47	1258.41	25.17	1123.58	52.43	1889.38	24.97	65.54	98.31
		1.25	0.78	1740.19	1292.21	25.84	1153.76	53.84	2030.22	25.64	67.30	100.95
		1.50	0.94	1860.91	1326.02	26.52	1183.94	55.25	2171.07	26.31	69.06	103.60
		1.75	1.09	1981.64	1359.82	27.20	1214.12	56.66	2311.91	26.98	70.82	106.24
		2.00	1.25	2102.36	1393.62	27.87	1244.30	58.07	2452.76	27.65	72.58	108.88
		2.25	1.41	2223.09	1427.42	28.55	1274.49	59.48	2593.60	28.32	74.35	111.52
		2.50	1.56	2343.81	1461.23	29.22	1304.67	60.88	2734.45	28.99	76.11	114.16
		2.75	1.72	2464.53	1495.03	29.90	1334.85	62.29	2875.29	29.66	77.87	116.80
		3.00	1.88	2585.26	1528.83	30.58	1365.03	63.70	3016.13	30.33	79.63	119.44
		3.25	2.03	2705.98	1562.63	31.25	1395.21	65.11	3156.98	31.00	81.39	122.08
		3.50	2.19	2826.71	1596.44	31.93	1425.39	66.52	3297.82	31.68	83.15	124.72
		3.75	2.34	2947.43	1630.24	32.60	1455.57	67.93	3438.67	32.35	84.91	127.36
		4.00	2.50	3068.15	1664.04	33.28	1485.75	69.34	3579.51	33.02	86.67	130.00
		4.25	2.66	3188.88	1697.85	33.96	1515.93	70.74	3720.36	33.69	88.43	132.64
		4.50	2.81	3309.60	1731.65	34.63	1546.11	72.15	3861.20	34.36	90.19	135.29
		4.75	2.97	3430.33	1765.45	35.31	1576.30	73.56	4002.05	35.03	91.95	137.93
		5.00	3.13	3551.05	1799.25	35.99	1606.48	74.97	4142.89	35.70	93.71	140.57



Transport by Lorry - In Km

Distance		Material								
km	Mile	1 Cube Earth/San d	1 Sq Turfing	1 ft <sup>3</sup> Timber	1 Ton Steel	1 Bag Cement	1 Cube Metal	1 ft long Hume Pipe (Dia. 6",9",12")	1 ft long Hume Pipe (Dia. 18",24")	1 ft long Hume Pipe (Dia. 30",36")
5.25	3.28	3671.77	1833.06	36.66	1636.66	76.38	4283.74	36.37	95.47	143.21
5.50	3.44	3792.50	1866.86	37.34	1666.84	77.79	4424.58	37.04	97.23	145.85
5.75	3.59	3913.22	1900.66	38.01	1697.02	79.19	4565.42	37.71	98.99	148.49
6.00	3.75	4033.94	1934.46	38.69	1727.20	80.60	4706.27	38.38	100.75	151.13
6.25	3.91	4154.67	1968.27	39.37	1757.38	82.01	4847.11	39.05	102.51	153.77
6.50	4.06	4275.39	2002.07	40.04	1787.56	83.42	4987.96	39.72	104.27	156.41
6.75	4.22	4396.12	2035.87	40.72	1817.74	84.83	5128.80	40.39	106.04	159.05
7.00	4.38	4516.84	2069.68	41.39	1847.92	86.24	5269.65	41.06	107.80	161.69
7.25	4.53	4637.56	2103.48	42.07	1878.11	87.64	5410.49	41.74	109.56	164.33
7.50	4.69	4758.29	2137.28	42.75	1908.29	89.05	5551.34	42.41	111.32	166.98
7.75	4.84	4879.01	2171.08	43.42	1938.47	90.46	5692.18	43.08	113.08	169.62
8.00	5.00	4999.74	2204.89	44.10	1968.65	91.87	5833.03	43.75	114.84	172.26
8.25	5.16	5120.46	2238.69	44.77	1998.83	93.28	5973.87	44.42	116.60	174.90
8.50	5.31	5241.18	2272.49	45.45	2029.01	94.69	6114.71	45.09	118.36	177.54
8.75	5.47	5361.91	2306.29	46.13	2059.19	96.10	6255.56	45.76	120.12	180.18
9.00	5.63	5482.63	2340.10	46.80	2089.37	97.50	6396.40	46.43	121.88	182.82
9.25	5.78	5603.36	2373.90	47.48	2119.55	98.91	6537.25	47.10	123.64	185.46
9.50	5.94	5724.08	2407.70	48.15	2149.73	100.32	6678.09	47.77	125.40	188.10
9.75	6.09	5844.80	2441.50	48.83	2179.92	101.73	6818.94	48.44	127.16	190.74
10.00	6.25	5965.53	2475.31	49.51	2210.10	103.14	6959.78	49.11	128.92	193.38